

2005 DIAMOND DRILLING
SIWASH GOLD MINE AREA
ELK PROPERTY

Similkameen Mining Division
Siwash Lake Area, British Columbia
NTS: 92H/16W; Lat. 49°50'N, Long. 120°19'W

VOLUME III : PLATES 1 TO 21

This report consists of three volumes:
Volume I: Text, Tables, Figures & Appendices
Volume II: Diamond Drill Logs
Volume III: Plates 1 to 21

March, 2006

By
W.J. Jakubowski, P. Geo.
Almaden Minerals Ltd.
1103 – 750 West Pender St.
Vancouver, B.C. V6C 2T8

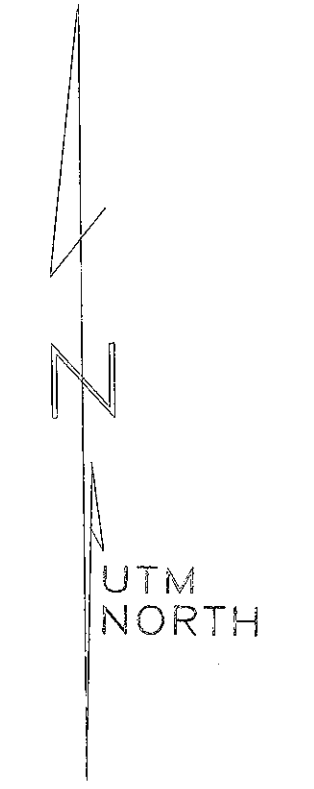
Report Preparation: Original + 3 copies

VOLUME III

PLATES
(in pockets)

Scale

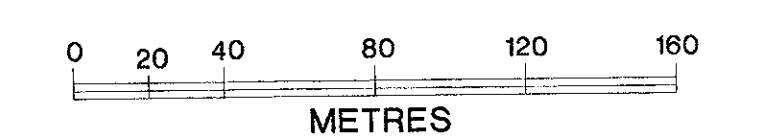
<u>Plate 1:</u>	- Siwash North Mine Site Plan and Surface Drill Hole Locations.....	1:2000
<u>Plate 2:</u>	- WD Vein Longitudinal Section.....	1:1000
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<u>Plate 5:</u>	- Drill Section 1990E Zone DpB.....	1:500
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<u>Plate 19:</u>	- Drill Section 2210E Zone SL.....	1:250
<u>Plate 20:</u>	- Drill Section 2260E Zone SL.....	1:250
<u>Plate 21:</u>	- Drill Section 2460E Zone SL.....	1:250



LEGEND

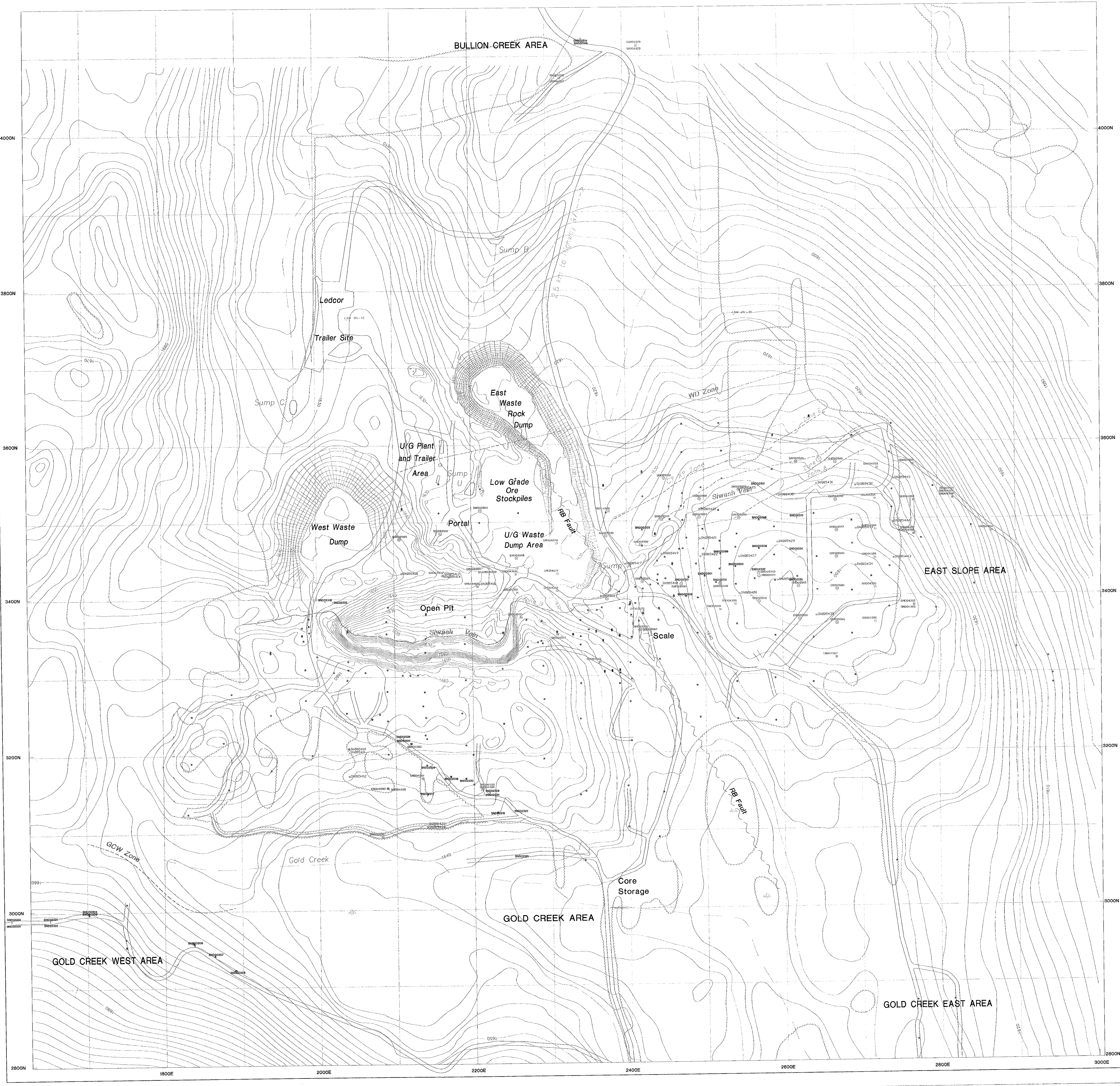
- Stream
- Swamp
- Dirt Road
- Vein Exposure
- Projected Trace of Vein
- Edge of Trees
- Fault
- Diamond Drill Hole Collars 1989 to 2006

PROVINCIAL SURVEY BRANCH
28/203



Local Mine Grid

ALMADEN MINERALS LTD. 1103 760 West Pender Street Vancouver, British Columbia V6C 2T8	
SIWASH GOLD MINE Similkameen Mining Division N.T.S. 92H/16W, B.C.	
MINE SITE PLAN WITH DRILL HOLE LOCATIONS AND EXPLORATION AREAS SCALE 1 : 2000	
Drawn by WJ, EM, JM February, 2006	PLATE 1



4000N
3800N
3600N
3400N
3200N
3000N

1800E
2000E
2200E
2400E
2600E
2800E
3000E

BULLION-CREEK AREA

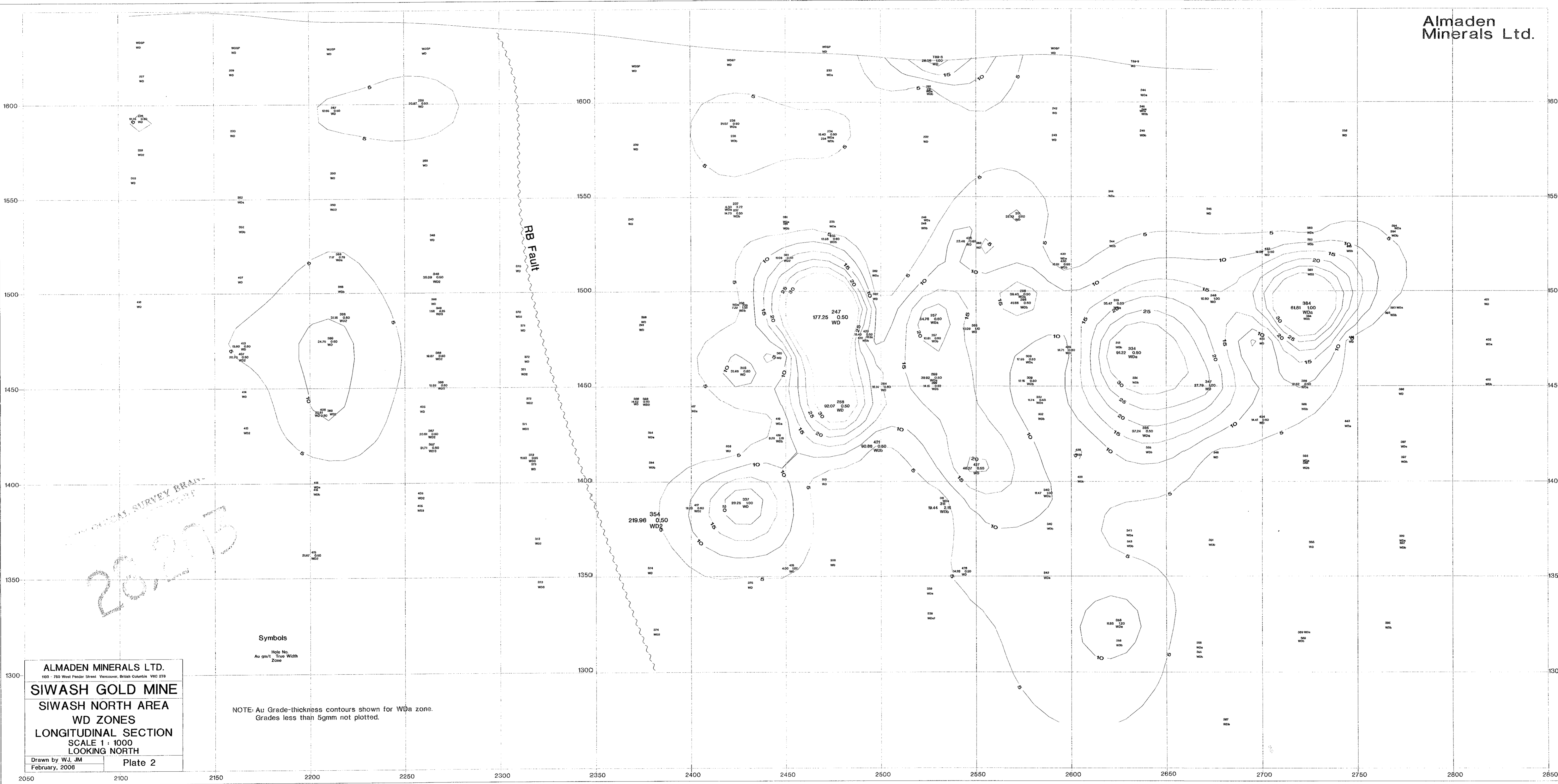
Ledcor
Trailer Site
Sump C
Sump B
Sump U
Sump

East Waste Rock Dump
U/G Plant and Trailer Area
West Waste Dump
Portal
Low Grade Ore Stockpiles
U/G Waste Dump Area
Open Pit
Scale
Core Storage

GCW Zone
Gold Creek
R/F Fault
WID Zone
EAST SLOPE AREA
GOLD CREEK AREA
GOLD CREEK WEST AREA
GOLD CREEK EAST AREA

28/203

0 20 40 80 120 160 METRES



Symbols

Hole No.
Au g/t, True Width
Zone

NOTE: Au Grade-thickness contours shown for WDa zone.
Grades less than 5g/t not plotted.

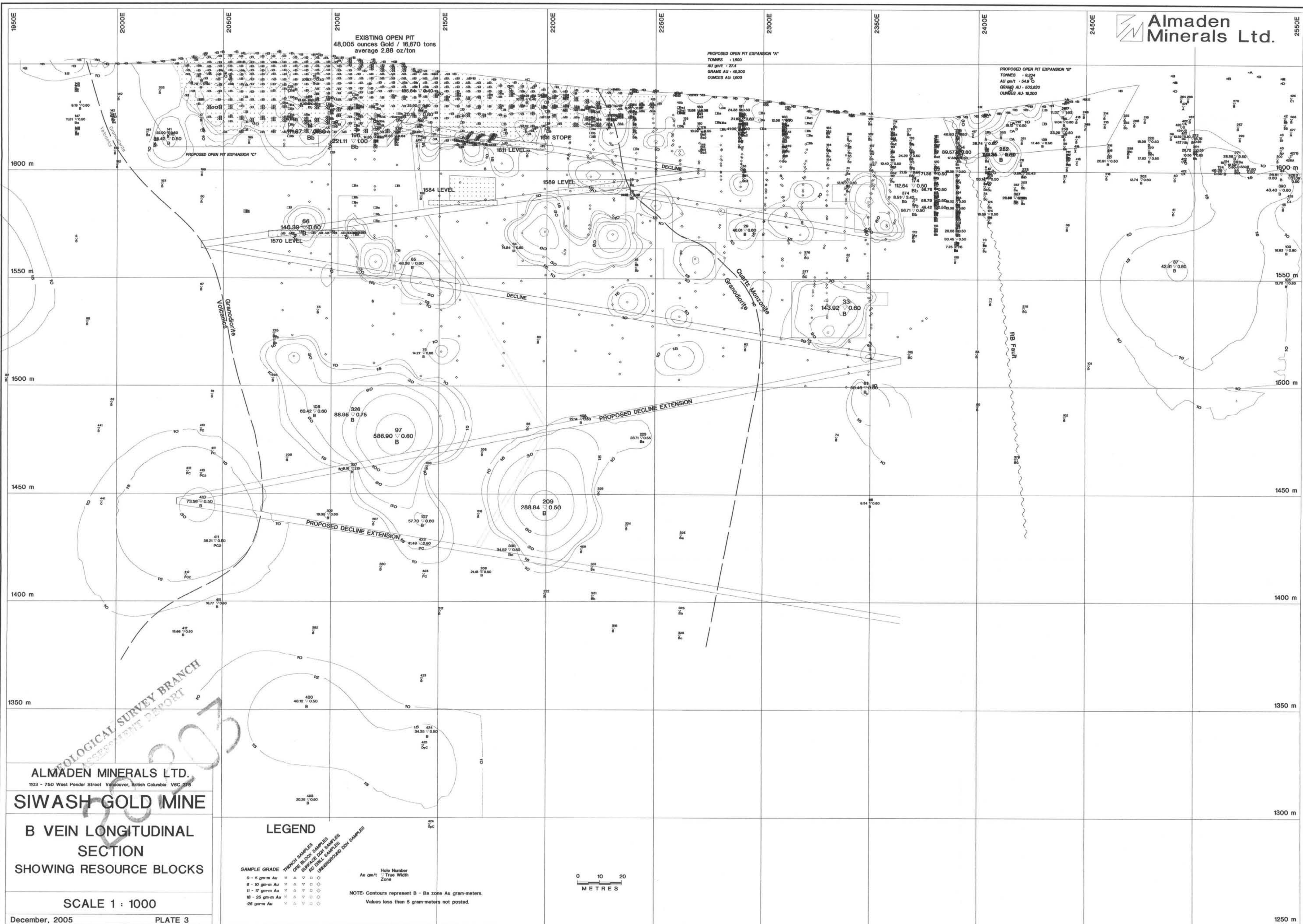
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103 - 750 West Pender Street Vancouver, British Columbia V6C 2T8

SIWASH GOLD MINE
SIWASH NORTH AREA
WD ZONES
LONGITUDINAL SECTION
SCALE 1 : 1000
LOOKING NORTH

Drawn by WJ, JM
February, 2006

Plate 2

20223



EXISTING OPEN PIT
48,005 ounces Gold / 16,870 tons
average 2.88 oz/ton

PROPOSED OPEN PIT EXPANSION "A"
TONNES : 1,600
AU gm/t : 27.4
GRAMS AU : 43,200
OUNCES AU : 1,600

PROPOSED OPEN PIT EXPANSION "B"
TONNES : 6,200
AU gm/t : 54.8
GRAMS AU : 603,620
OUNCES AU : 8,200

ALMADEN MINERALS LTD.
1103 - 750 West Pender Street Vancouver, British Columbia V6C 2T6

SIWASH GOLD MINE

B VEIN LONGITUDINAL SECTION
SHOWING RESOURCE BLOCKS

SCALE 1 : 1000

December, 2005 PLATE 3

LEGEND

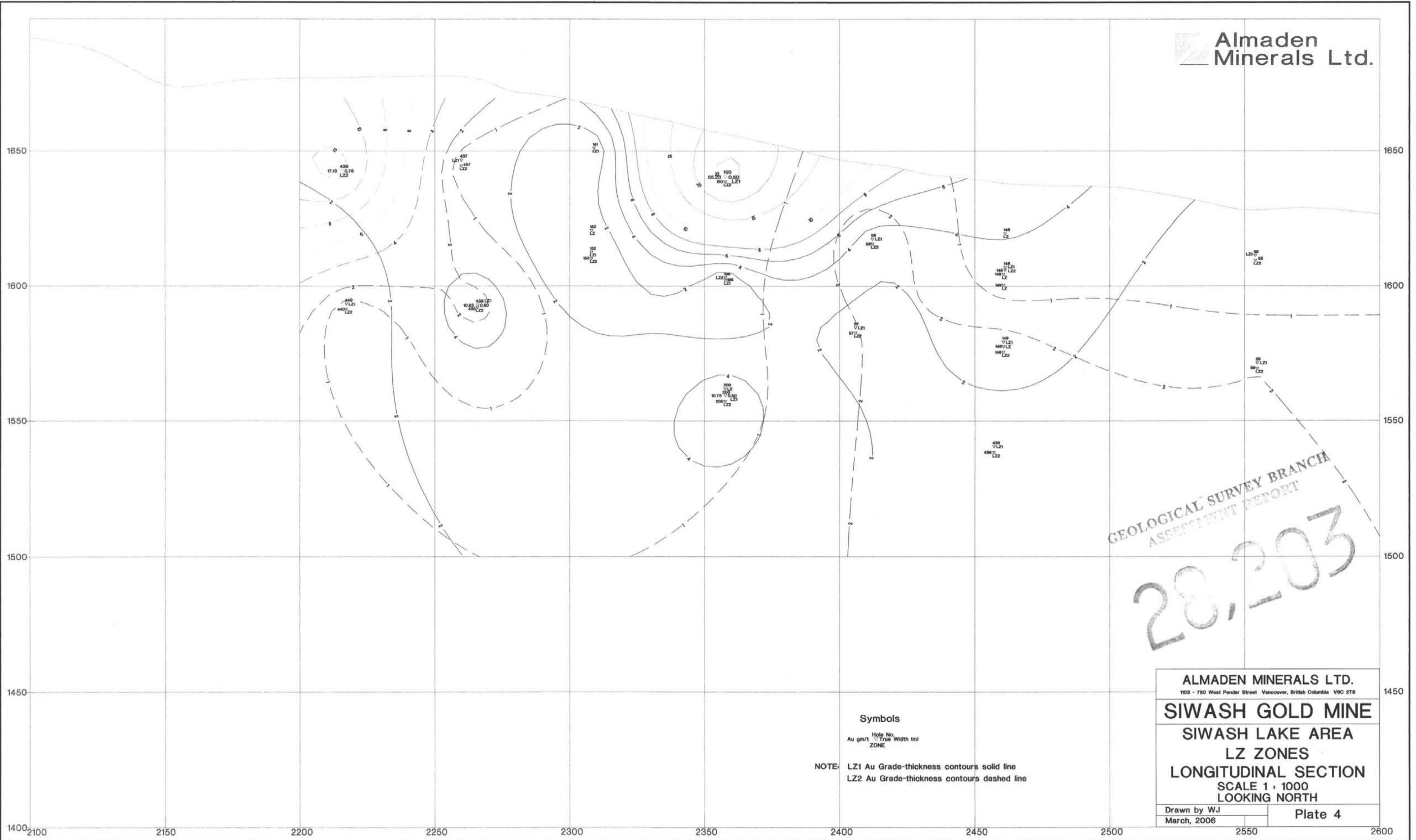
○	5 gm-m Au	×	17 gm-m Au	△	26 gm-m Au
○	8 gm-m Au	×	17 gm-m Au	△	26 gm-m Au
○	11 gm-m Au	×	17 gm-m Au	△	26 gm-m Au
○	15 gm-m Au	×	17 gm-m Au	△	26 gm-m Au
○	20 gm-m Au	×	17 gm-m Au	△	26 gm-m Au

○ TRENCH SAMPLES
△ ONE BLOCK SAMPLES
× SURFACE SOIL SAMPLES
△ DELTA SAMPLES
○ UNDERGROUND DOW SAMPLES

○ Hole Number
△ Au gm/t
× True Width
△ Zone

NOTE: Contours represent B - Ba zone Au gram-meters.
Values less than 5 gram-meters not posted.

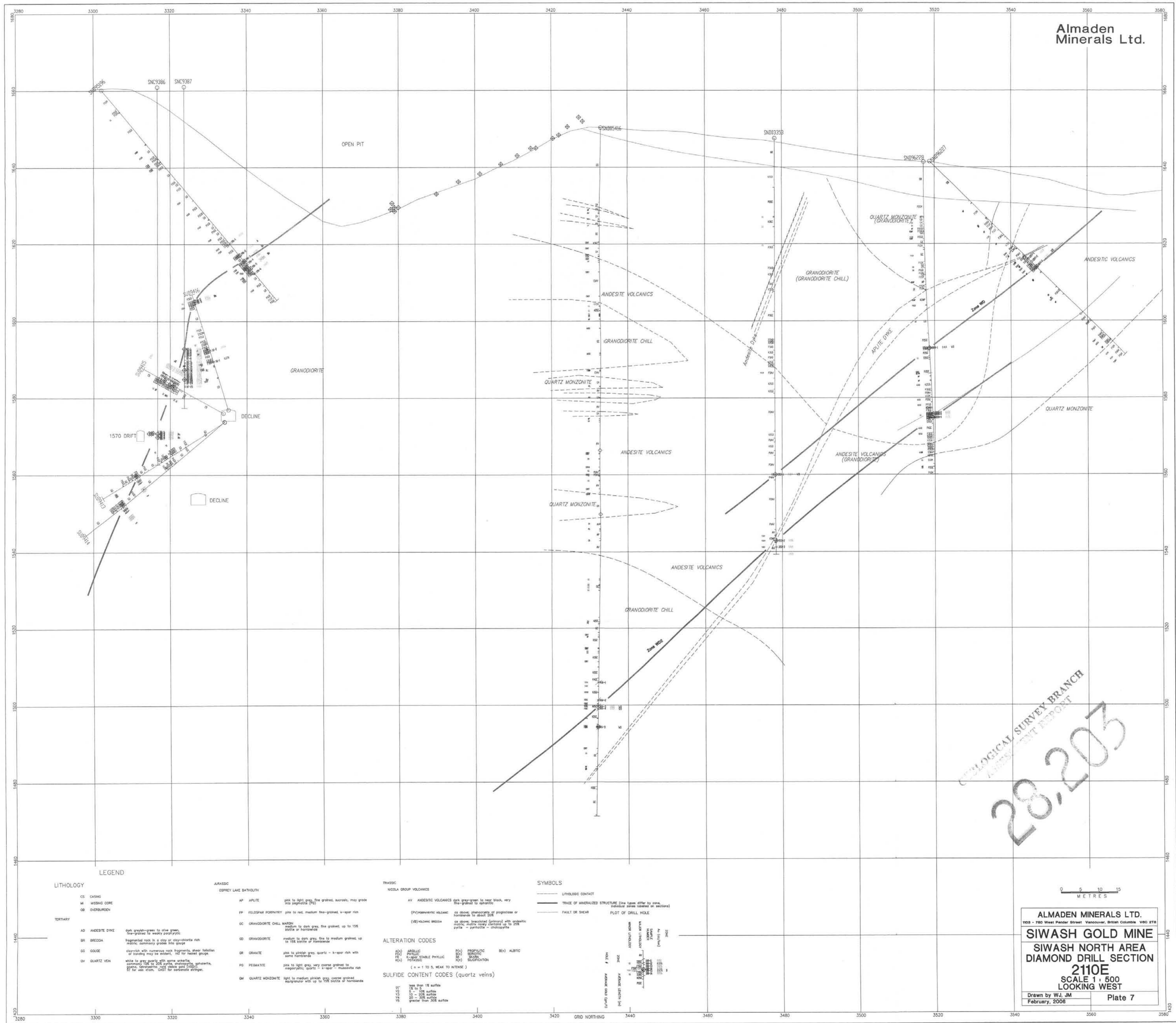




GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT
28, 2003

Symbols
 Au gm/t $\frac{\text{Hole No.}}{\text{True Width (m)}}$
 ZONE
 NOTE: LZ1 Au Grade-thickness contours solid line
 LZ2 Au Grade-thickness contours dashed line

ALMADEN MINERALS LTD.
 1103 - 750 West Pender Street Vancouver, British Columbia V6C 2T8
SIWASH GOLD MINE
 SIWASH LAKE AREA
 LZ ZONES
 LONGITUDINAL SECTION
 SCALE 1 : 1000
 LOOKING NORTH
 Drawn by WJ
 March, 2006
 Plate 4



GEOLOGICAL SURVEY BRANCH
 ALMADEN REPORT
 28,203

LEGEND

LITHOLOGY	JURASSIC OSPREY LAKE BATHOLITH
CS CASING	AP APLITE pink to light grey, fine grained, auroch, may grow into asphalite (PO)
MC MISSING CORE	FP FELDSPAR PORPHYRY pink to red, medium fine-grained, x-spar rich
OB OVBURDEN	GC GRANODIORITE CHILL MASHI medium to dark grey, fine grained, up to 15% biotite or hornblende
TERTIARY	GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
AD ANDESITE DYKE dark grey-green to olive green, fine-grained to weakly porphyritic	GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
BR BRECCIA fragmented rock in a clay or clay-siltstone rich matrix, commonly grades into shale	PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
GG GOLGE clay-rich with numerous rock fragments, shear foliation or lineation may be present, 10% for basalt gouge	QM QUARTZ MONZONITE light to medium pinkish, very coarse grained equigranular with up to 15% biotite or hornblende
QV QUARTZ VEIN white to grey quartz with some auroch, commonly 10% to 20% pyrite, magnetite, sphalerite, galena, arsenic, CuS, arsenic ore (AO), SF for van-actin, CAS for carbonate stringer.	

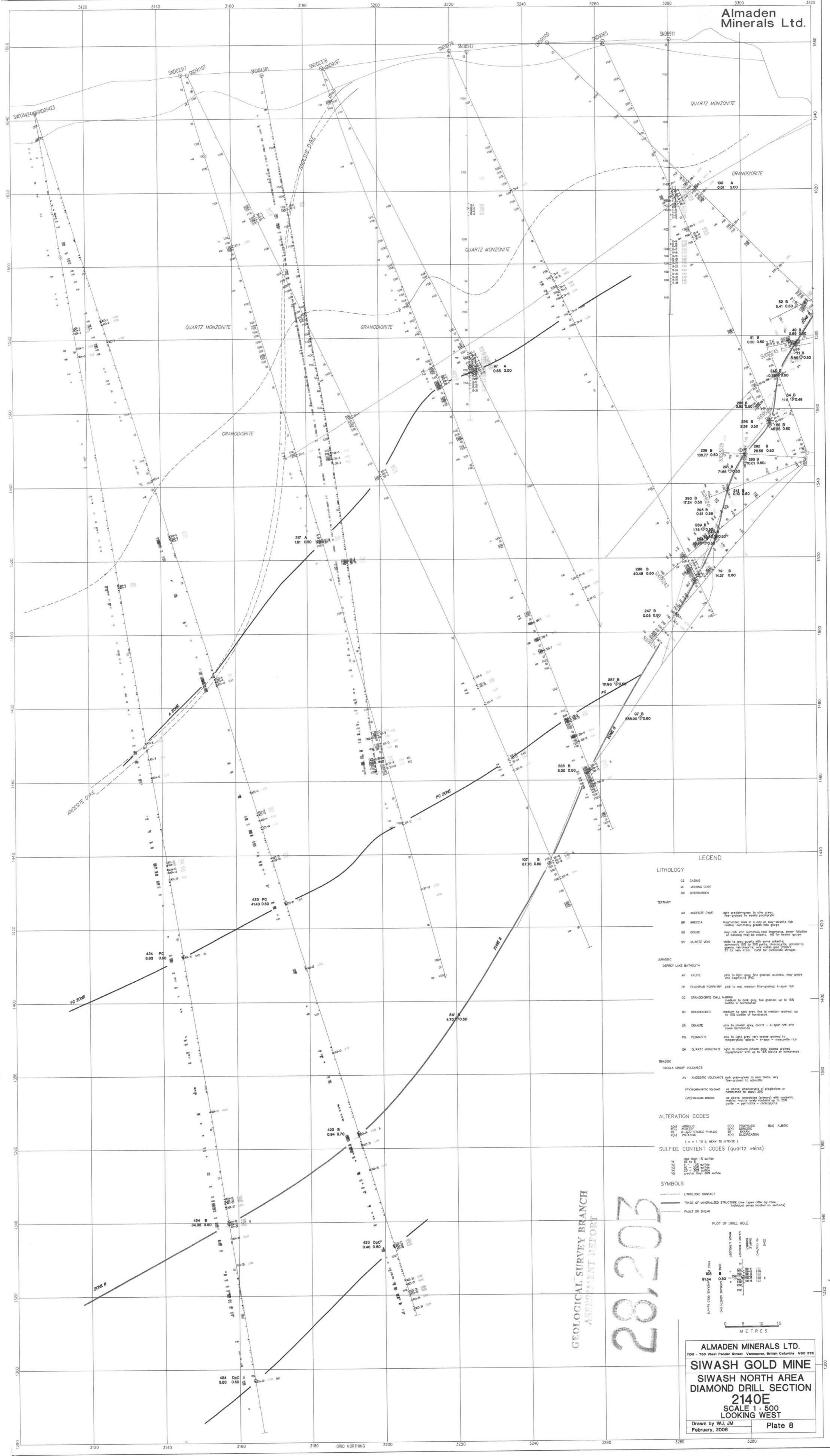
TRASSIC NICOLA GROUP VOLCANICS	ALTERATION CODES
AV ANDESITE VOLCANICS dark grey-green to near black, very fine-grained to aphanitic	A(0) ANOLIC
(PV) PORPHYRY VOLCANIC as above, character of porphyries or hornblende to about 20%	P(0) PHTHALIC
(VB) VOLCANIC BRECCIA as above, brecciated (primary) with andesitic matrix, matrix may contain up to 25% pyrite - pyritic - andesitic.	ST(0) STABLE PHYLIC
	PO(0) POLYSSIC
	(A = 1 TO 5, WEAK TO INTENSE)
	SULFIDE CONTENT CODES (quartz veins)
	S(0) less than 1% sulfide
	S(1) 1% to 5% sulfide
	S(2) 5% to 20% sulfide
	S(3) 20% to 50% sulfide
	S(4) greater than 50% sulfide

SYMBOLS

—	LITHOLOGIC CONTACT
—	TRACE OF MINERALIZED STRUCTURE (line types differ by area, individual areas listed on sections)
—	FAULT OR SHEAR
—	PLOT OF DRILL HOLE



ALMADEN MINERALS LTD.
 1005 - 740 West Pender Street Vancouver, British Columbia V6G 2T8
SIWASH GOLD MINE
 SIWASH NORTH AREA
 DIAMOND DRILL SECTION
2110E
 SCALE 1 : 500
 LOOKING WEST
 Drawn by WJ JM
 February, 2008
 Plate 7



LEGEND

LITHOLOGY

CS CASING
 WI MISSING CORE
 OB OVERRIDEN

TERTIARY

AD ANDESITE DYKE dark green-grey to olive green, fine-grained to waxy porphyritic
 BR BRECCIA fragmental rock in a clay or clay-chalazite rich matrix containing greenite ore
 CG COUPE clay-rich, with numerous rock fragments, shear foliation of gouges may be evident, 100' for facies gauge
 QV QUARTZ VEIN white to grey quartz with some alteration, summary 100 to 300 parts, microphytic, igneous, some, terrigenous, rock stable post (10000), 50 for work item, CAST for carbonate stringer.

JURASSIC

OSPREY LAKE BATHOLITH
 AP APLITE fine to light grey, fine grained, sodic, may grade into pegmatite (P)
 FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich
 GC GRANDIORITE CHILL MARGIN medium to dark grey, fine grained, up to 15% biotite or hornblende
 GD GRANDIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
 GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
 PE PEGMATITE fine to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
 QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained, equigranular with up to 15% biotite or hornblende

TRASSIC

NEOLA GROUP VOLCANICS
 AV ANDESITIC VOLCANICS pink grey-green to near black, very fine-grained to aphanitic
 (P) PEGMATITIC VOLCANIC as above, characterized by pegmatite or hornblende to about 20%
 (V) VOLCANIC BRECCIA as above, characterized by pegmatite or hornblende to about 20%
 (M) VOLCANIC BRECCIA as above, characterized by pegmatite or hornblende to about 20%, mafic, microcrystalline, altered, up to 30% pyrite - pyromorphite - enargite

ALTERATION CODES

AN) ANDESITIC	PH) PROPYLITIC	RO) ALBITIC
PR) PEGMATITIC	SE) SERICITIC	
PK) POTASSIC	SF) SERICITIC	
	SU) SULPHURIFICATION	

(x = 1 to 5, weak to intense)

SULFIDE CONTENT CODES (quartz veins)

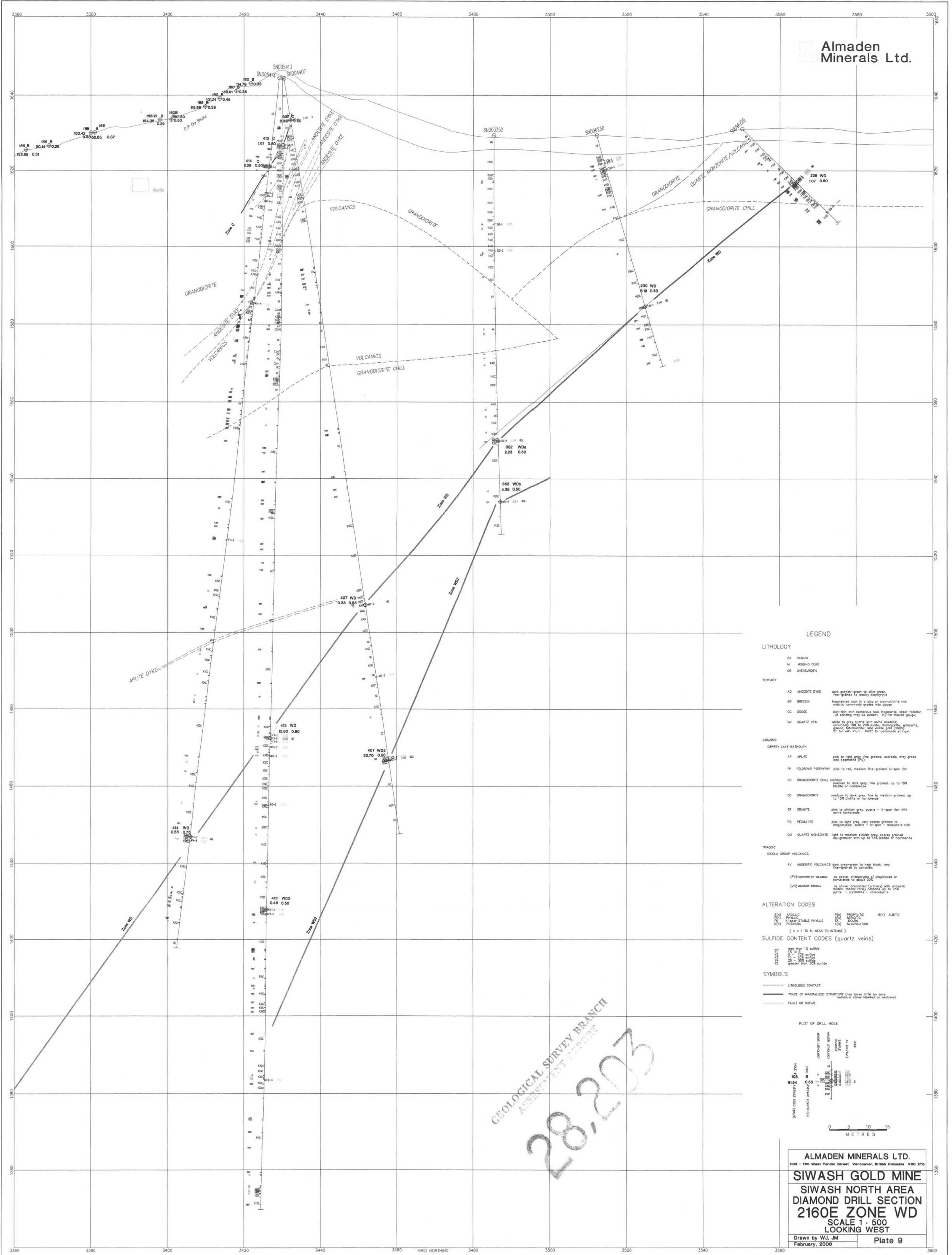
S05 0.50 to 5.00 sulfide
 S10 5.00 to 10.00 sulfide
 S15 10.00 to 15.00 sulfide
 S20 20.00 to 30.00 sulfide
 S25 30.00 to 40.00 sulfide
 S30 40.00 to 50.00 sulfide
 S35 50.00 to 60.00 sulfide
 S40 60.00 to 70.00 sulfide
 S45 70.00 to 80.00 sulfide
 S50 80.00 to 90.00 sulfide
 S55 90.00 to 100.00 sulfide
 S60 100.00 to 150.00 sulfide
 S65 150.00 to 200.00 sulfide
 S70 200.00 to 300.00 sulfide
 S75 300.00 to 400.00 sulfide
 S80 400.00 to 500.00 sulfide
 S85 500.00 to 600.00 sulfide
 S90 600.00 to 700.00 sulfide
 S95 700.00 to 800.00 sulfide
 S100 800.00 to 900.00 sulfide
 S105 900.00 to 1000.00 sulfide
 S110 1000.00 to 1500.00 sulfide
 S115 1500.00 to 2000.00 sulfide
 S120 2000.00 to 3000.00 sulfide
 S125 3000.00 to 4000.00 sulfide
 S130 4000.00 to 5000.00 sulfide
 S135 5000.00 to 6000.00 sulfide
 S140 6000.00 to 7000.00 sulfide
 S145 7000.00 to 8000.00 sulfide
 S150 8000.00 to 10000.00 sulfide

SYMBOLS

LITHOLOGIC CONTACT
 TRACE OF MINERALIZED STRUCTURE (low traces differ by zone, individual zones marked on sections)
 FAULT OR SHEAR
 PLOT OF DRILL HOLE

GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT
28,203

ALMADEN MINERALS LTD.
 1905 - 760 West Pender Street Vancouver, British Columbia V6C 0T8
SIWASH GOLD MINE
 SIWASH NORTH AREA
 DIAMOND DRILL SECTION
2140E
 SCALE 1 : 500
 LOOKING WEST
 Drawn by W.J. JM
 February, 2008 Plate 8



LEGEND

LITHOLOGY

CS CASING
 MC MISSING CORE
 OB OVERBURDEN

TERTIARY

AD ANDESITE DYKE dark green-grey to olive green, fine-grained to waxy porphyritic
 BR BRECCIA fragmented rock in a clay or clay-siltstone rich matrix commonly greenish grey
 GQ GOUZE clay-rich with numerous rock fragments, shear foliation or banding may be evident. PG for brecciated gouze.
 QV QUARTZ VEIN white to grey quartz with some carbonate cementation or SOE gangue, epidote, chrome amphibole, rare black gold (COG) SS for vein $< 10m$. CA-ST for carbonate stringer.

JURASSIC

OSPREY LAKE BATHOLITH

AP APLITE pink to light grey, fine grained, auriferous, may grade into pegmatite (PG)
 FP FELDSPAR PORPHYRY pink to red, medium fine-grained, Au-silver rich
 GC GRANDIORITE CHILL medium to dark grey, fine grained up to 15% biotite or hornblende
 GD GRANDIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
 GR GRANITE pink to phain grey, quartz - K-spar rich with some hornblende
 PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - K-spar - muscovite rich
 QM QUARTZ MONZONITE light to medium phain grey coarse grained megacrystic with up to 15% biotite or hornblende

TRASSIC

NEOLA GROUP VOLCANICS

AV ANDESITIC VOLCANICS dark green-grey to near black, very coarse to granitic
 (P) PORPHYRYIC VOLCANIC as above, phenocrysts of plagioclase or hornblende to about 200
 (B) BRECCIA BRECCIA as above, brecciated (shaly) with epidote matrix, matrix may contain up to 5% black gold - pyrite - arsenopyrite - arsenicopyrite

ALTERATION CODES

A(D) ANDALUSITE
 P(D) PHYLIC
 P(S) PSEUDO-TALC PHYLIC
 K(A) KALBARIT
 P(P) PROPYLITIC
 S(S) SERICITIC
 SO(S) SOLENOCHALC
 AL(B) ALBITE
 SC(S) SCORPACON
 (1 = 1 TO 5, NEAR TO INTENSE)

SULFIDE CONTENT CODES (quartz veins)

L-SURF from TX surface
 1-100 1% to 100%
 101-200 10% to 20%
 201-300 20% to 30%
 301-400 30% to 40%
 401-500 40% to 50%
 501-600 50% to 60%
 601-700 60% to 70%
 701-800 70% to 80%
 801-900 80% to 90%
 901-1000 90% to 100%

SYMBOLS

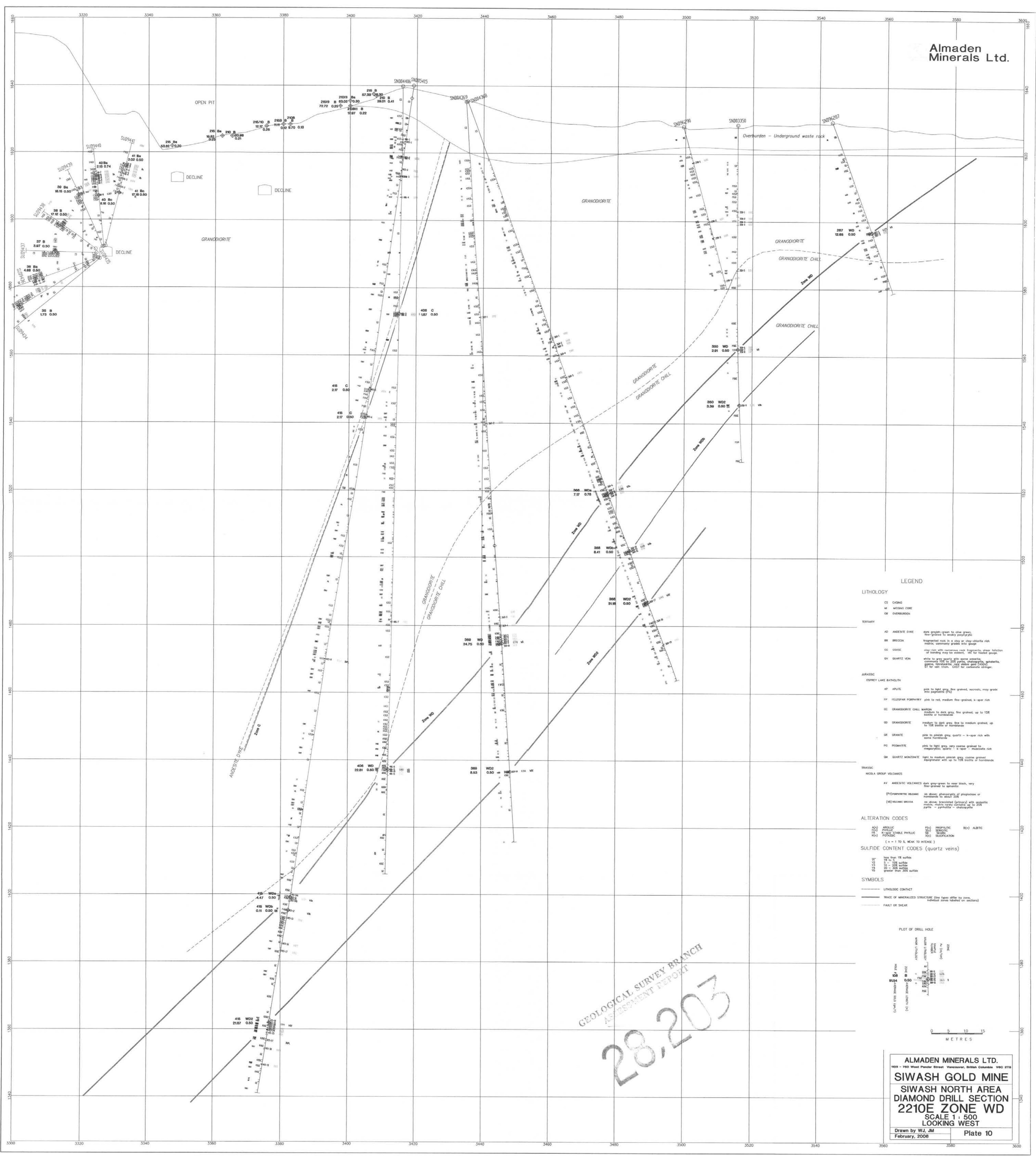
--- LITHOLOGIC CONTACT
 --- TRADE OF MINERALIZED STRUCTURE (line types differ by zone, indicate zones related in section)
 --- FAULT OR SHEAR

PLOT OF DRILL HOLE

WELL OPEN DEPTH (m)
 WELL CLOSED DEPTH (m)
 WELL ABANDONED DEPTH (m)
 WELL COLLAPSED DEPTH (m)
 WELL STOPPED DEPTH (m)
 WELL DROPPED DEPTH (m)
 WELL RIGGED DEPTH (m)
 WELL RIGGED DEPTH (m)
 WELL RIGGED DEPTH (m)
 WELL RIGGED DEPTH (m)

0 5 10 15 METRES

GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT
 28,203



LEGEND

LITHOLOGY

CS CASING
 W WINDING CORE
 CR OVERBURDEN

TERTIARY

AD ANDESITE DIKE fine grained, green to olive green, fine grained to coarse porphyry
 BR BRECCIA fragmented rock in a clay or clay-illite rich matrix, commonly grades into shale
 GS GOUSS clay rich with numerous rock fragments, show halos of sanding may be matrix, 5-12% for host rock
 QV QUARTZ VEIN white to grey quartz with some calcite, commonly 10% to 20% quartz, calcite, pyrite, garnet, magnetite, and other minerals. 10-15% for host rock, 10-15% for carbonate stringer

JURASSIC

OPREY LAKE BASIN

AF AFITE pink to light grey, fine grained, massive, may grade into porphyry (P)
 FP FELDSPAR PORPHYRY pink to red, medium fine grained, 1-2% quartz
 CC GRANDIORITE CHILL MASH medium to dark grey, fine grained, up to 10% quartz or hornblende
 GD GRANDIORITE medium to dark grey, fine to medium grained, up to 10% quartz or hornblende
 GR GRANITE pink to yellow grey, quartz - 1-2% quartz rich with some hornblende
 PG PEGMATITE pink to light grey, very coarse grained to "porphyry" quartz - 1-2% quartz - muscovite rich
 QM QUARTZ MONZONITE light to medium coarse, grey coarse grained, hornblende rich up to 10% quartz or hornblende

TRASSIC

NEOLA GROUP VOLCANICS

AV ANDESITE VOLCANICS dark grey-green to near black, very fine grained to granular
 (P) PORPHYRY (P) as above, granular to porphyry or massive to about 10% quartz
 (M) MASH BRECCIA as above, brecciated (fragment) with quartz, pyrite, magnetite, and other minerals up to 10% quartz - pyrite - magnetite

ALTERATION CODES

AB ABOLIC
 PH PHYLIC
 PO POORLY DEVELOPED
 PR PROGRESSIVE
 SP SPREAD
 AL ALBITIC

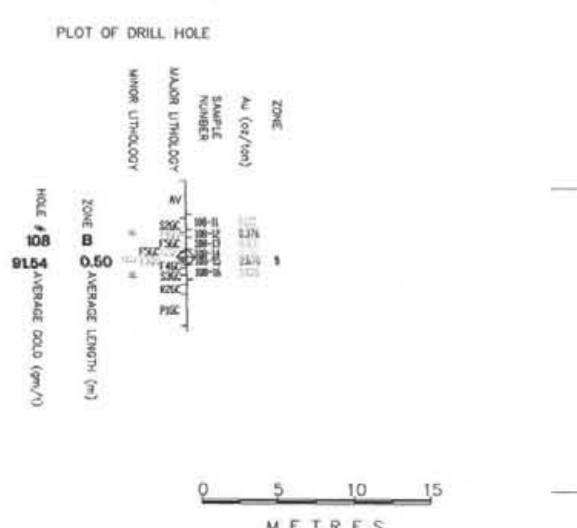
(+ = 1 to 5, weak to intense)

SULFIDE CONTENT CODES (quartz veins)

SS1 less than 1% surface
 SS2 1% to 5% surface
 SS3 5% to 10% surface
 SS4 greater than 10% surface

SYMBOLS

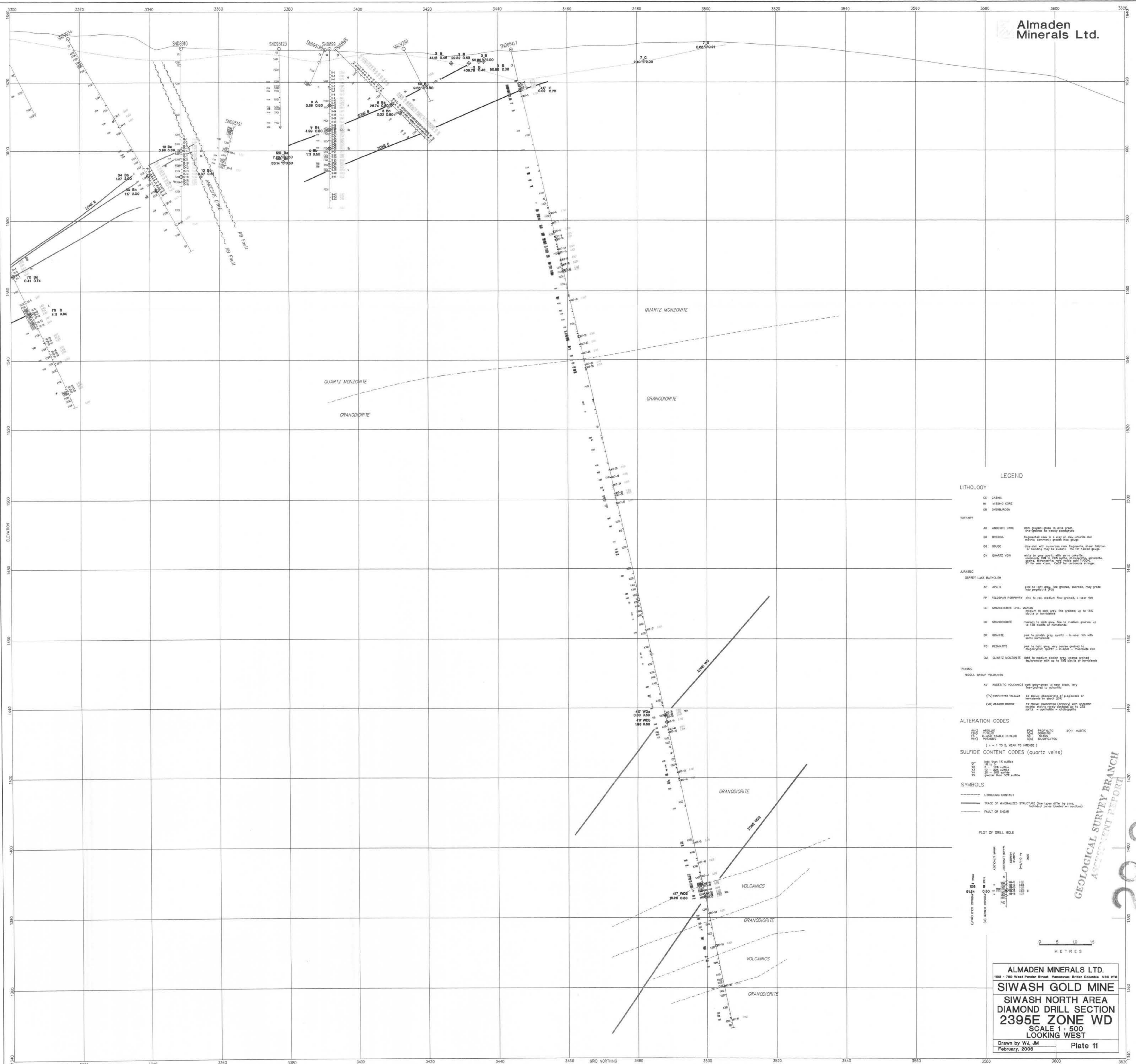
— LITHOLOGIC CONTACT
 --- TRACE OF MINERALIZED STRUCTURE (has been offset by zone, indicate zone related to structure)
 - - - FAULT OR SHEAR



0 5 10 15
 METRES

GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT
 28,203

ALMADEN MINERALS LTD.
 703 - 760 West Pender Street Vancouver, British Columbia V6C 2T6
SIWASH GOLD MINE
SIWASH NORTH AREA
DIAMOND DRILL SECTION
2210E ZONE WD
 SCALE 1 : 500
 LOOKING WEST
 Drawn by WJ, JM
 February, 2008 Plate 10



LEGEND

LITHOLOGY

CS	CASING		
MC	MISSING CORE		
OS	OVERBURDEN		
TERTIARY			
AD	ANDESITE DYKE	fine to med. green to olive green, fine-grained to waxy porphyry	
BR	BRECCIA	fragmented rock to 2 m or more diameter, matrix, commonly grades into gouge	
DS	DOUG	massive rock with numerous fine fragments, near location of source may be absent, 10% for better grade	
DV	QUARTZ VEIN	white to grey quartz with some calcite, commonly contains pyrite, arsenopyrite, magnetite, hematite, and/or other sulfides, 10% for better grade	
JURASSIC			
DUPREY LAKE BATHOLITH			
AP	APLITE	fine to med. grey, fine grained, aegirine, may grade into pegmatite (20)	
FP	FELDSPAR PORPHYRY	pink to red, medium fine-grained, 1-10% iron	
GC	GRANDIORITE CHILL MARGES	medium to dark grey, fine grained, up to 10% biotite or hornblende	
GD	GRANDIORITE	medium to dark grey fine to medium grained, up to 10% biotite or hornblende	
GR	GRANITE	pink to reddish grey, quartz - 1-10% iron with some hornblende	
PG	PEGMATITE	pink to light grey, very coarse grained to megacrystic, quartz - 1-10% iron - muscovite rich	
QM	QUARTZ MONZONITE	light to medium pink, very coarse grained, representative with up to 10% biotite or hornblende	
TRIASSIC			
NOOLA GROUP VOLCANICS			
AV	ANDESITIC VOLCANICS	dark grey-green to near black, very fine-grained to aphanitic	
(P)	PHYRIC VOLCANIC	as above, dominance of plagioclase or hornblende in sheet rock	
(V)	VOLCANIC BRECCIA	as above, brecciated (primary) with calcite, commonly contains pyrite, arsenopyrite, magnetite, hematite, and/or other sulfides	

ALTERATION CODES

(A)	ARGILLIC	(C)	CHLORITIC	(R)	ALBITIC
(P)	PROLIFERATE	(S)	SEMI-STABLE PHTHALIC	(SC)	SULFIDATION
(F)	FERRUGINOUS	(SO)	SODIUM		

(+ = 1 TO 5, NEAR TO INTENSE)

SULFIDE CONTENT CODES (quartz veins)

(S)	less than 10 wt%
(M)	10 to 20 wt%
(H)	greater than 20 wt%

SYMBOLS

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (one trace after by zone, individual zones labeled on sections)
- FAULT OR SHEAR

PLOT OF DRILL HOLE

Legend for drill hole symbols: C (Casing), MC (Missing Core), OS (Overburden), AD (Andesite Dyke), BR (Breccia), DS (Doug), DV (Quartz Vein), AP (Aplite), FP (Feldspar Porphyry), GC (Grandiorite Chill Marges), GD (Grandiorite), GR (Granite), PG (Pegmatite), QM (Quartz Monzonite), AV (Andesitic Volcanics), P (Phyric Volcanic), V (Volcanic Breccia).

0 5 10 15
METRES

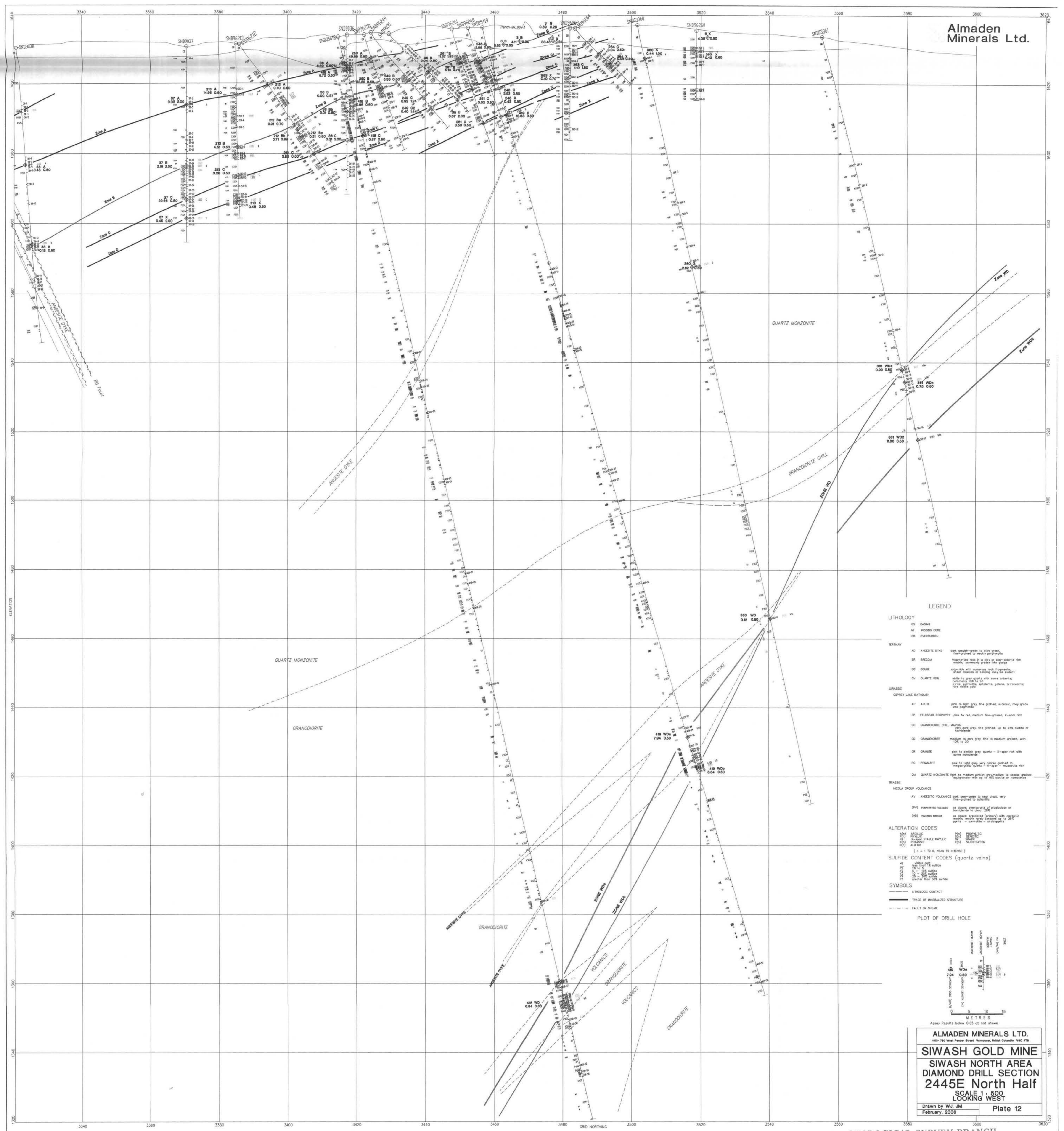
ALMADEN MINERALS LTD.
108 - 750 West Pender Street, Vancouver, British Columbia V6C 2T8

SIWASH GOLD MINE
SIWASH NORTH AREA
DIAMOND DRILL SECTION
2395E ZONE WD
SCALE 1 : 500
LOOKING WEST

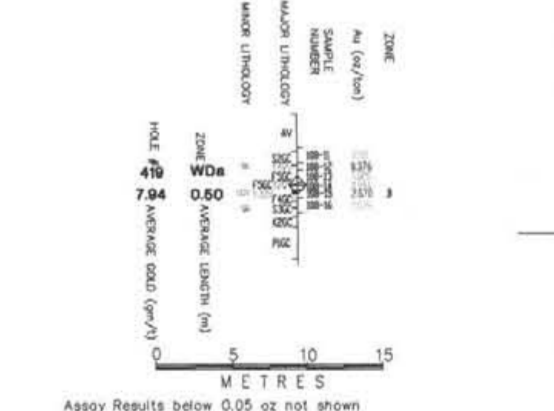
Drawn by WJ, JM
February, 2006

Plate 11

GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT
 20, 2005



- LEGEND**
- LITHOLOGY**
- CS CASING
 - MC MISSING CORE
 - OB OBTURATED
- TERTIARY**
- AD ANDESITIC DIKE dark grey-green to olive green, fine grained to very fine grained
 - BR BRECCIA fragmented rock in a clay or argillaceous rich matrix, commonly grades into dike
 - DD DIKE olive to grey quartz with some calcite, common K-feldspar and biotite
 - DV QUARTZ VEIN white to grey quartz with some calcite, biotite, K-feldspar, epidote, titanite, etc.
- JURASSIC**
- CSLEY LAKE BASALTIC
 - AP APLITE pink to light grey, fine grained, coarse, may grade into porphyry
 - FP FELDSPAR PORPHYRY pink to red, medium fine grained, K-spar rich
 - GC GRANDIORITIC CHILL MASON very dark grey, fine grained, up to 25% biotite or hornblende
 - GD GRANDIORITIC medium to dark grey, fine to medium grained, with 10% to 20%
 - GR GRANITE pink to golden grey, quartz - K-spar rich with some hornblende
 - OK ORITE pink to light grey, very coarse grained to megacrystic, quartz - K-spar - muscovite rich
 - QH QUARTZ MONZONITE light to medium pink, medium to coarse grained, megacrystic with up to 10% biotite or hornblende
- TRASSIC**
- MOCLA GROUP VOLCANICS
 - AV ANDESITIC VOLCANIC dark grey-green to deep black, very fine grained to medium grained
 - PD PORPHYRIC VOLCANIC as above, porphyritic or plagioclase or hornblende to about 20%
 - VD VOLCANIC BRECCIA as above, brecciated (matrix) with angular fragments of andesite or granite up to 20% pyrite - sphalerite - arsenopyrite
- ALTERATION CODES**
- (K) KALINE (K) KALINE
 - (S) SERICITE (S) SERICITE
 - (P) PITCHBLAND (P) PITCHBLAND
 - (C) CHLORITE (C) CHLORITE
 - (A) ALKALINE (A) ALKALINE
 - (M) MARGINAL (M) MARGINAL
 - (R) RICH (R) RICH
 - (I) INTENSE (I) INTENSE
 - (S) SERICITE (S) SERICITE
 - (C) CHLORITE (C) CHLORITE
 - (P) PITCHBLAND (P) PITCHBLAND
 - (K) KALINE (K) KALINE
 - (M) MARGINAL (M) MARGINAL
 - (R) RICH (R) RICH
 - (I) INTENSE (I) INTENSE
- SULFIDE CONTENT CODES (quartz veins)**
- VS - VS surface
 - VS - VS surface
 - VS - VS surface
 - VS - VS surface
- SYMBOLS**
- LITHOLOGIC CONTACT
 - TRACE OF MINERALIZED STRUCTURE
 - FAULT OR SHEAR
 - PLOT OF DRILL HOLE

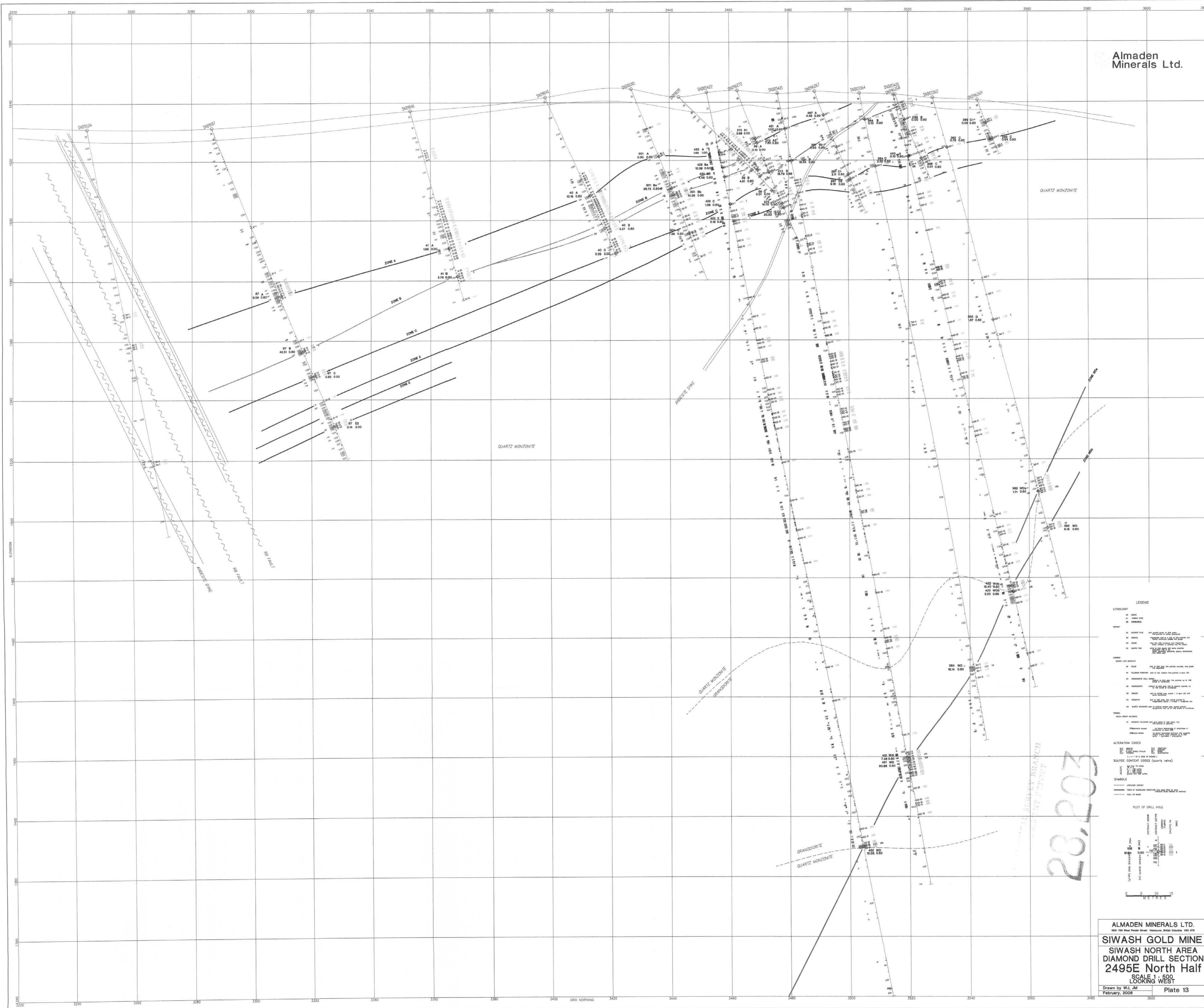


Assay Results below 0.05% are not shown.

ALMADEN MINERALS LTD.
 225-235 West Beaver Creek, Richmond, British Columbia V6X 2T6

SIWASH GOLD MINE
 SIWASH NORTH AREA
 DIAMOND DRILL SECTION
 2445E North Half
 SCALE 1:500
 LOOKING WEST

Drawn by W.J. JM Plate 12
 February, 2006



LEGEND

LITHOLOGY

- QUARTZ MONZONITE
- AMPHIBOLE DIKE
- GRANODIORITE

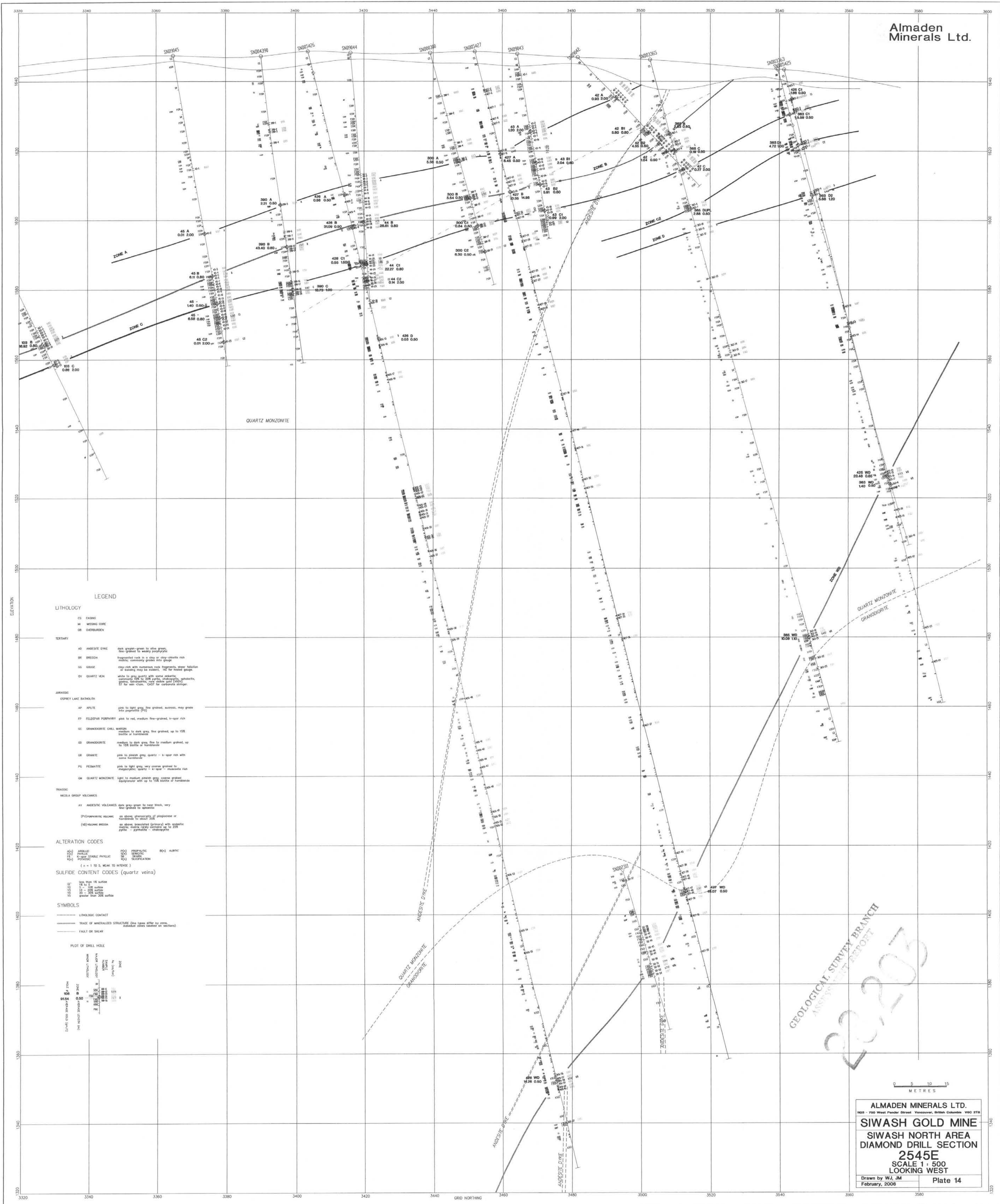
ALTERATION CODES

- OXIDATION
- CHLORITIZATION
- ACTIVATION
- HYDRATION
- SOIL

SYMBOLS

- PLOT OF DRILL HOLE
- DRILL LOG
- DRILL LOG WITH SAMPLES
- DRILL LOG WITH SAMPLES AND ALTERATION
- DRILL LOG WITH SAMPLES AND ALTERATION AND QUANTITIES

20.203



LEGEND

LITHOLOGY

- CS CASING
 - MS MISSING CORE
 - DB OVERBURDEN
- TERTIARY
- AD ANDESITE DYKE dark grey-green to olive green, fine-grained to sandy porphyritic
 - BE BRECCIA fragmented rock in a clay or clay-siltstone rich matrix, commonly poorly sorted
 - GG GOUZE may consist of numerous rock fragments, whose reduction of bonding may be evident, HC for head gouge
 - DV QUARTZ VEIN white to grey quartz with minor amounts commonly 10% to 20% pyrite, chloropyrite, sphalerite, galena, hematite, and other gangue minerals. ST for vein-chlor. CAS for carbonate stringer.
- JURASSIC
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, fine grained, asexual, may grade into pegmatite (?)
 - FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spr rich
 - GC GRANDDIORITE GILL MASON medium to dark grey, fine grained, up to 15% biotite or hornblende
 - GD GRANDDIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
 - GR GRANITE pink to pinkish grey, quartz - k-spr rich with some monzonite
 - FG FELSICITE pink to light grey, very coarse grained to megacrystic feldspar - k-spr - muscovite rich
 - QM QUARTZ MONZONITE light to medium pink, fine coarse grained equigranular with up to 15% biotite or hornblende
- TRASSIC
- MOCA GROUP VOLCANICS
- AV ANDESITE VOLCANIC dark grey green to deep black, very fine-grained to aphanitic
 - (P)PHONOLITIC VOLCANIC as above, clinopyroxene or plagioclase or hornblende to about 20%
 - (V)VOLCANIC BRECCIA as above, brecciated (granular) with aphanitic matrix, matrix rarely calcified up to 25% pyrite - pyrrhotite - chloropyrite

ALTERATION CODES

- | | | | | | |
|----|---------------------|----|----------------|----|--------------|
| AN | ANTRACITE | PH | PHOSPHORIC | SO | SULFIDE |
| AR | ARSENIC | PR | PROLIFERATION | SR | SULFIDE RICH |
| CH | CHLOROPHYLLE | SC | SERICITIZATION | | |
| CO | COPPER | | | | |
| CU | CUPRIFIC | | | | |
| HA | HEMATITE | | | | |
| HE | HEMATITE | | | | |
| HT | HYDROTHERMAL TRENCH | | | | |
| IR | IRON | | | | |
| MA | MANGANESE | | | | |
| MO | MOLYBDENUM | | | | |
| NI | NICKEL | | | | |
| OR | ORPIMENT | | | | |
| PI | PIRITIZATION | | | | |
| PT | PYRITIZATION | | | | |
| SP | SPHALERITIZATION | | | | |
| ST | STANNITE | | | | |
| TR | TUNGSTEN | | | | |
| UR | URANINIZATION | | | | |
| VA | VALENTINITE | | | | |
| VE | VEGETATION | | | | |
| VI | VANADINIZATION | | | | |
| VO | VOLCANIC | | | | |
| W | WOLFRAM | | | | |
| ZN | ZINC | | | | |

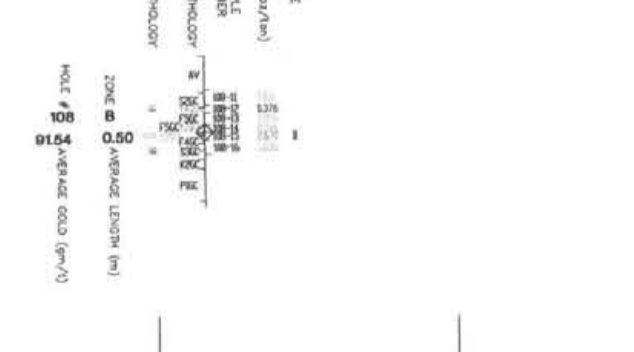
SULFIDE CONTENT CODES (quartz veins)

- 0.00 - 0.05
- 0.05 - 0.10
- 0.10 - 0.15
- 0.15 - 0.20
- 0.20 - 0.25
- 0.25 - 0.30
- 0.30 - 0.35
- 0.35 - 0.40
- 0.40 - 0.45
- 0.45 - 0.50
- 0.50 - 0.55
- 0.55 - 0.60
- 0.60 - 0.65
- 0.65 - 0.70
- 0.70 - 0.75
- 0.75 - 0.80
- 0.80 - 0.85
- 0.85 - 0.90
- 0.90 - 0.95
- 0.95 - 1.00

SYMBOLS

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (line types differ by zone, shaded areas shown on sections)
- FAULT OR SHEAR

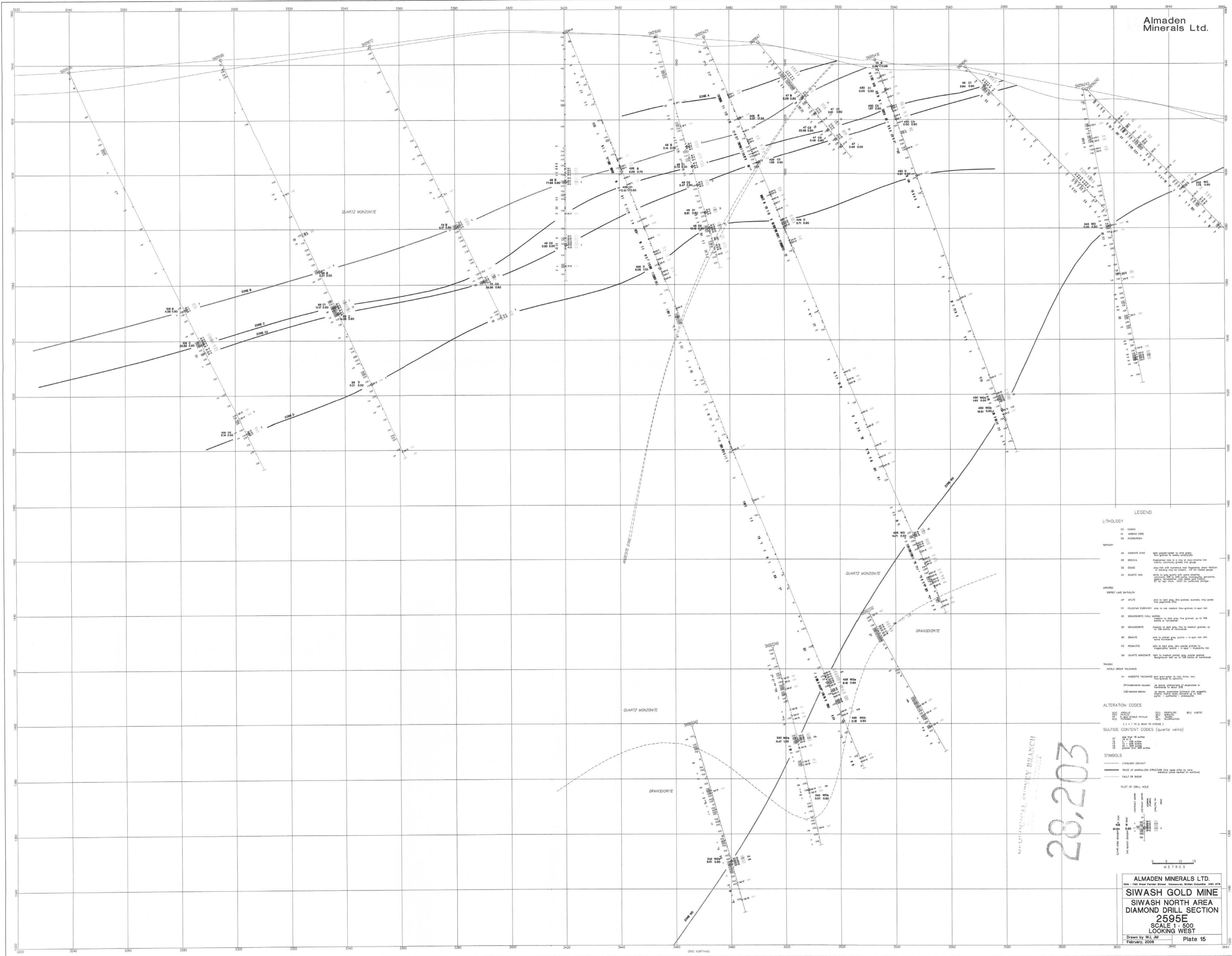
PLOT OF DRILL HOLE



20203
 GEOLOGICAL SURVEY BRANCH
 ANTIMONY REPORT

0 5 10 15
 METRES

ALMADEN MINERALS LTD.
 100 - 750 West Pender Street Vancouver, British Columbia V6C 2T6
SIWASH GOLD MINE
 SIWASH NORTH AREA
 DIAMOND DRILL SECTION
2545E
 SCALE 1 : 500
 LOOKING WEST
 Drawn by W.J. JM
 February, 2006
 Plate 14



LEGEND

LITHOLOGY

- QZ Quartz Monzonite
- GR Granite
- AM Amphibolite
- ... (other lithology units)

ALTERATION CODES

- OP Oxidation
- ... (other alteration codes)

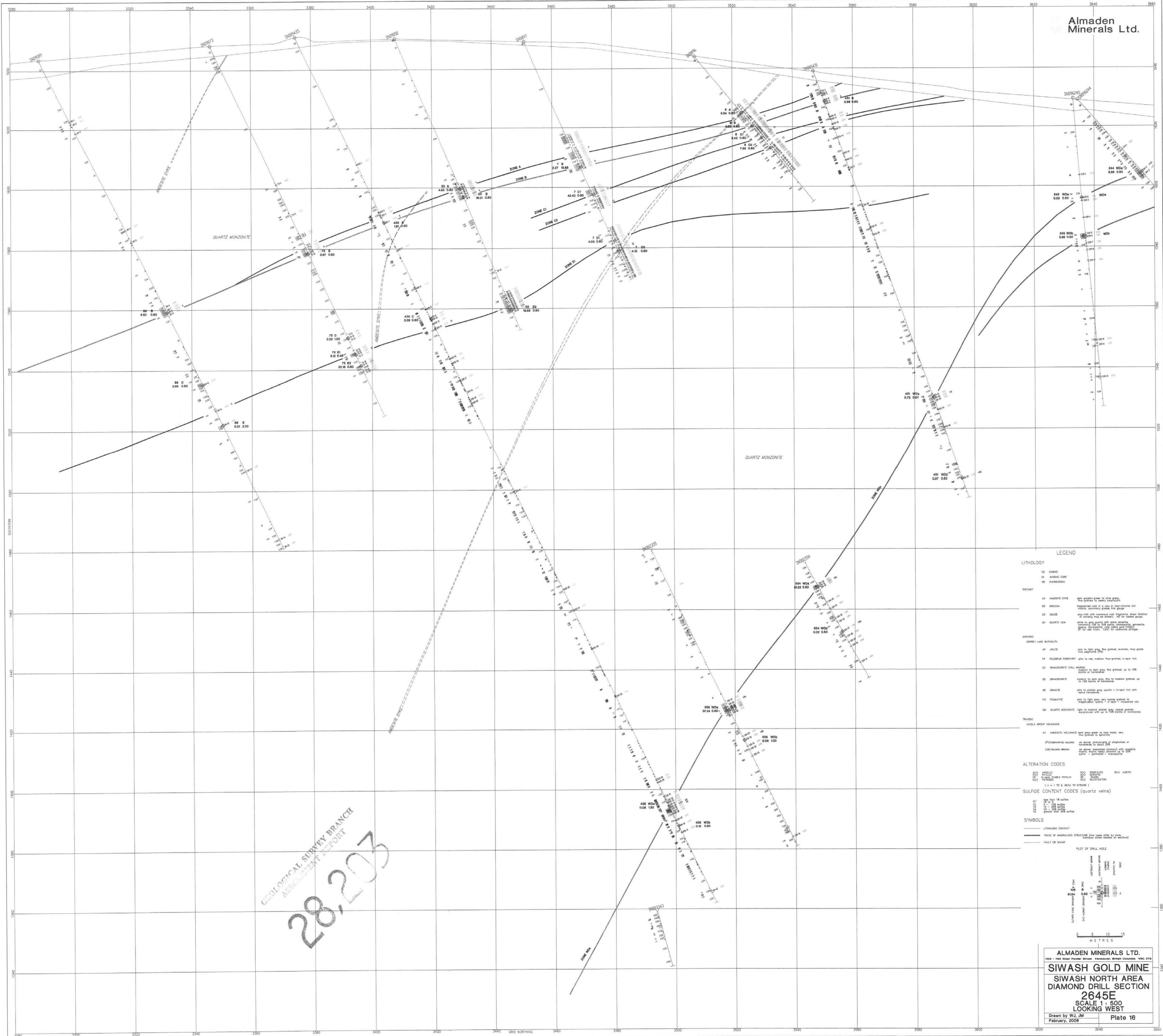
SULFIDE CONTENT CODES (quartz veins)

- ... (sulfide content codes)

SYMBOLS

- ... (structural symbols)

SURVEY BRANCH
 28.203



28,203
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

LEGEND

LITHOLOGY

CG CASING
 WU WINDING CORE
 WU WINDING CORE

TERTIARY

AD ANDESITE DIKE
 BR BRIDGEMAN
 GG GROUND
 DV QUARTZ VEIN

JURASSIC

CONROY LAKE BATOLITH

AP ANDALUSITE
 FP FELDSPAR PEGMATITE
 CC GRANODIORITE CHALK
 GC GRANODIORITE
 OR ORTHOCLASE
 PK PEGMATITE
 QM QUARTZ MONZONITE

TRASSIC

NEOGENE VOLCANICS

AV ANDESITIC VOLCANICS
 (P) PEGMATITE
 (C) CRYSTALLINE
 (S) SILEX

ALTERATION CODES

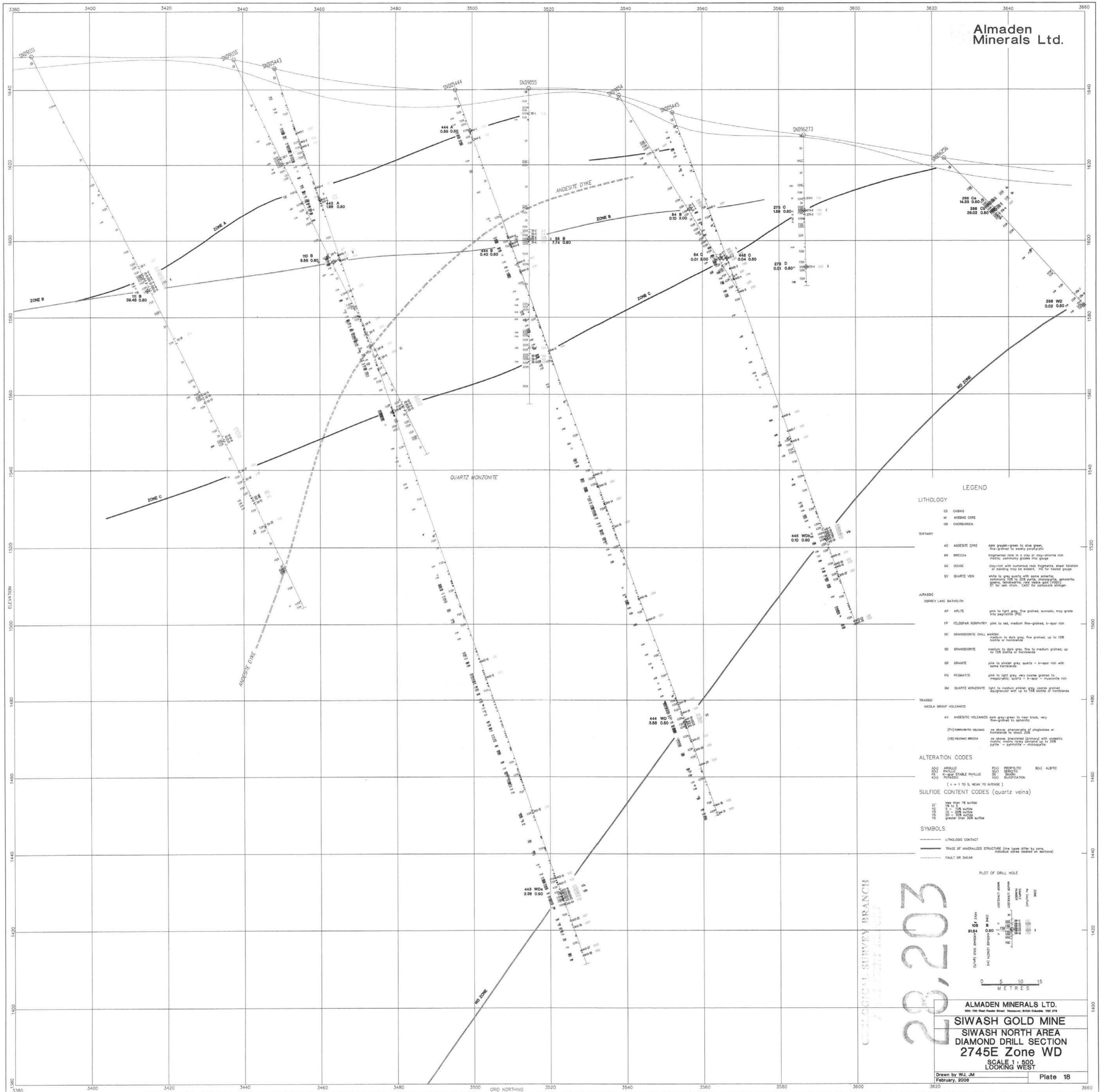
SULFIDE CONTENT CODES (quartz veins)

SYMBOLS

LITHOLOGIC CONTACT
 TRACE OF UNRAISED STRUCTURE
 FAULT OR SHEAR

PLOT OF DRILL HOLE

ALMADEN MINERALS LTD.
 100 - 100 Street Street Street Vancouver, British Columbia, V6C 2T8
SIWASH GOLD MINE
 SIWASH NORTH AREA
 DIAMOND DRILL SECTION
2645E
 SCALE 1 : 500
 LOOKING WEST
 Drawn by W.J. JM
 February, 2006
 Plate 16



LEGEND

LITHOLOGY

CS CASINO
 MC MESSING CORE
 OB OVERBURDEN

TERTIARY

AD ANDESITE DYKE dark grey-green to olive green, fine-grained to weakly porphyritic
 BR BRECCIA irregularly broken in a clay or clay-matrix rich matrix, commonly grades into gouge
 GG GOUGE clay-rich with numerous rock fragments, shear solution of bedding may be evident, 10% for loose gouge
 QV QUARTZ VEIN white to grey quartz with some orthoclase, commonly 10% to 20% pyrite, magnetite, sphalerite, galena, hematite, rare values of (Pb), (Zn) for vein clin., CAST for carbonate stringer.

JURASSIC

OSPREY LAKE BATHOLITH

AP APLITE pink to light grey, fine grained, astatic, may grade into pegmatite (P)

FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich

GC GRANDIORITE CHILL WASHION medium to dark grey, fine grained, up to 10% biotite or hornblende

GD GRANDIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende

GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende

PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich

QM QUARTZ MONZONITE light to medium pinkish, very coarse grained, megacrystic, up to 15% biotite or hornblende

TRASSIC

NEOLA GROUP VOLCANICS

AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
 (P) PORPHYRY as above, phenocrysts of plagioclase or hornblende to about 20%
 (V) VOLCANIC BRECCIA as above, brecciated (primary) with oxidized matrix, matrix may contain up to 25% pyrite - pyrrhotite - magnetite

ALTERATION CODES

A(n) ARYLIC P(n) PORPHYRY B(n) ALBITIC
 P(n) PHYLIC S(n) SERICITIC
 K(n) K-FIELD STABLE PHYLIC X(n) SULFIDATION
 T(n) TAFSIC S(n) SULFIDATION
 (n = 1 TO 5, HEAVY TO INTENSE)

SULFIDE CONTENT CODES (quartz veins)

less than 1% surface
 1% - 5% surface
 5% - 10% surface
 10% - 20% surface
 20% - 30% surface
 greater than 30% surface

SYMBOLS

— LITHOLOGIC CONTACT
 — TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones isolated on sections)
 — FAULT OR SHEAR

ALMADEN MINERALS LTD.
 28,203

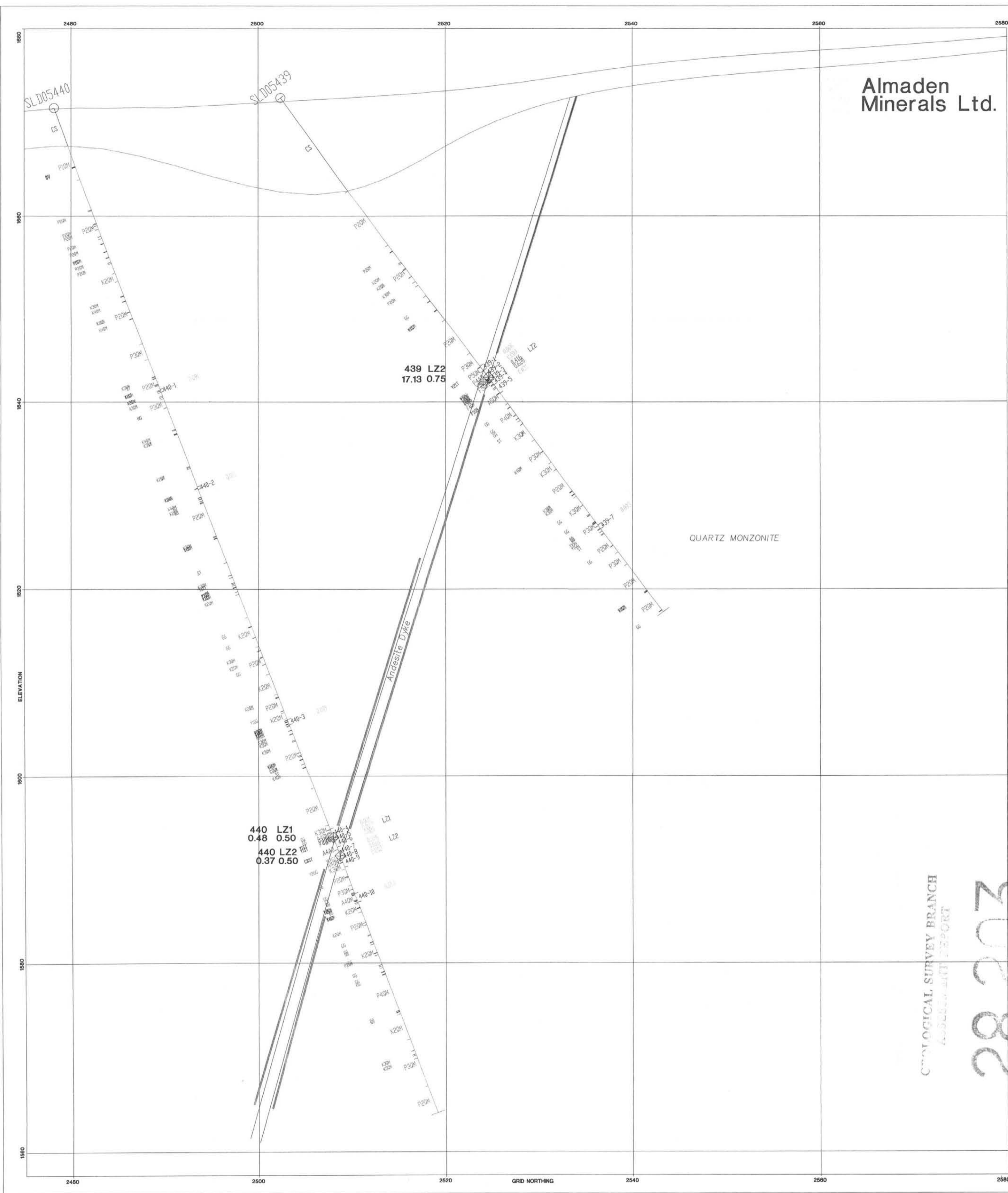
GEOLOGICAL SURVEY BRANCH
 2745E Zone WD

PLOT OF DRILL HOLE

0 5 10 15 METRES

ALMADEN MINERALS LTD.
 SIWASH GOLD MINE
 SIWASH NORTH AREA
 DIAMOND DRILL SECTION
 2745E Zone WD
 SCALE 1:500
 LOOKING WEST

Drawn by WJ, JM February, 2008 Plate 18



Almaden Minerals Ltd.

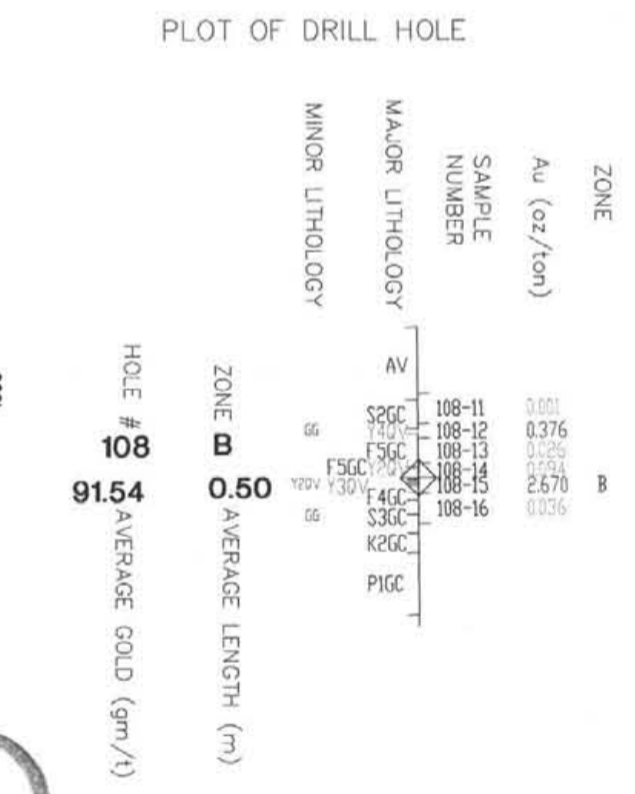
LEGEND

- LITHOLOGY**
- CS CASING
 - M MISSING CORE
 - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic
 - BR BRECCIA fragmented rock in a clay or clay-illite rich matrix, commonly grades into gouge
 - GO GOUGE clay-rich with numerous rock fragments, shear foliation or bending may be evident
 - QV QUARTZ VEIN white to grey quartz with some ankerite, commonly 5% to 20% pyrite with lesser chloropyrite, pyrrhotite, sphalerite, galena, tetrahedrite, rare visible gold
- JURASSIC**
- OPHELY LAKE BATHOLITH**
- AP APLITE pink to light grey, fine grained, aegiric, may grade into pegmatite
 - FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich
 - GC GRANODIORITE CHILL MARGIN medium to dark grey, fine grained, up to 15% biotite or hornblende
 - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
 - GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
 - PD PRISMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
 - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRASSIC**
- NOCLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANICS dark grey-green to near black, very fine-grained to aphanitic
 - PV PORPHYRYIC VOLCANICS above, phenocrysts of plagioclase or hornblende to about 20%
 - VB VOLCANIC BRECCIAS above, brecciated (granular) with andesitic matrix, matrix rarely contains up to 20% pyrite - pyrrhotite - chalcopyrite

- ALTERATION CODES**
- | | | | |
|-----|----------------------|-----|---------------|
| Am | ARGILLIC | Pst | PROPYLITIC |
| Ph | PHYLIC | Sst | SERPENTINIC |
| PK | K-spar STABLE PHYLIC | SK | SKARN |
| Kst | POTASSIC | Xst | SULFIDICATION |
- (n = 1 TO 5, WEAK TO INTENSE)

- SULFIDE CONTENT CODES (quartz veins)**
- | | |
|----|--------------------------|
| Y1 | less than 1% sulfide |
| Y2 | 1% to 5% sulfide |
| Y3 | 5 - 10% sulfide |
| Y4 | 10 - 20% sulfide |
| Y5 | 20 - 30% sulfide |
| Y6 | greater than 30% sulfide |

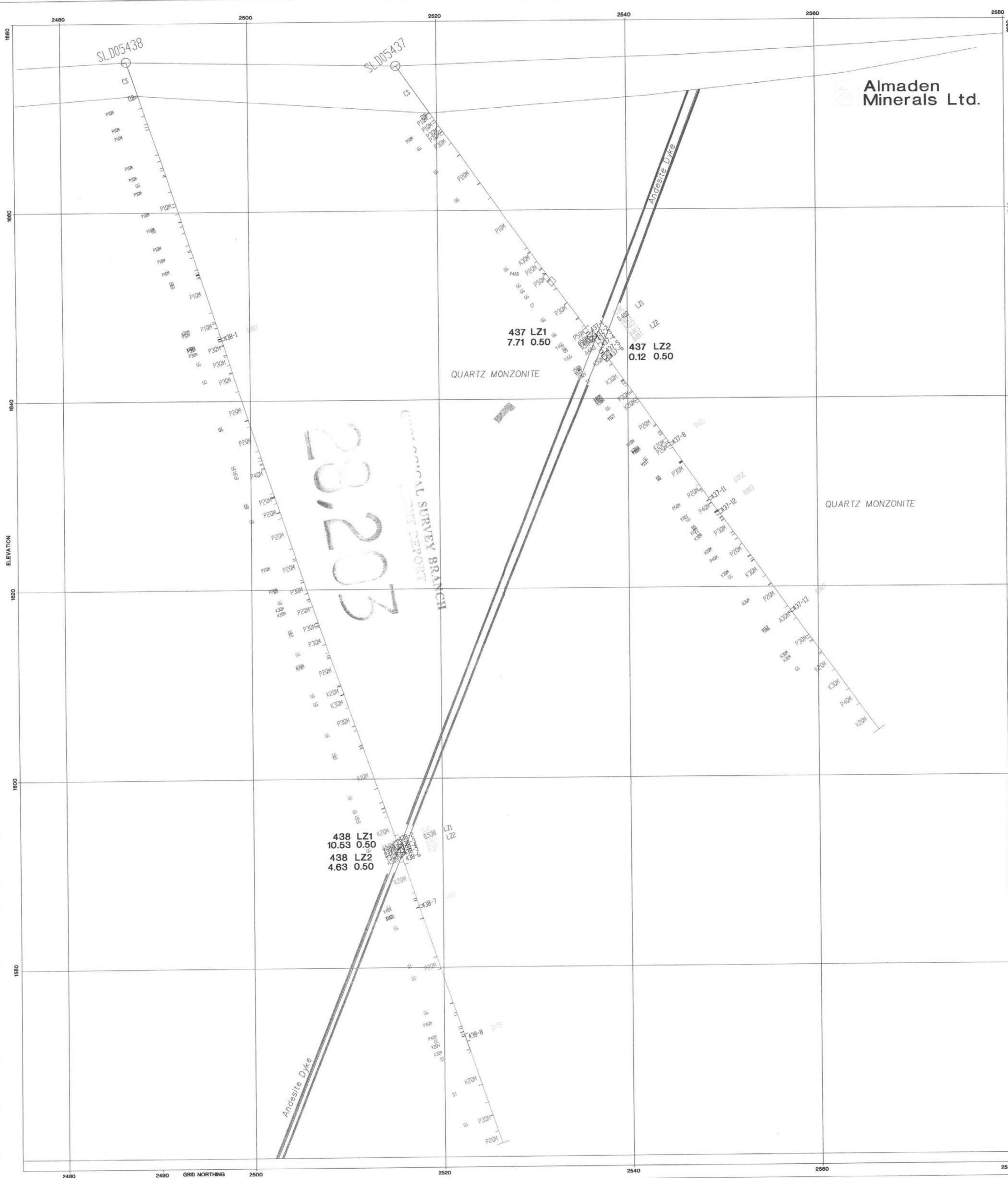
- SYMBOLS**
- LITHOLOGIC CONTACT
 - TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labelled on sections)
 - FAULT OR SHEAR



GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT
 28,203

ALMADEN MINERALS LTD.
 103 - 750 West Pender Street, Vancouver, British Columbia V6C 2T8

ELK PROPERTY
 LAKE ZONE AREA
 DIAMOND DRILL SECTION
2210E
 SCALE 1 : 250
 LOOKING WEST



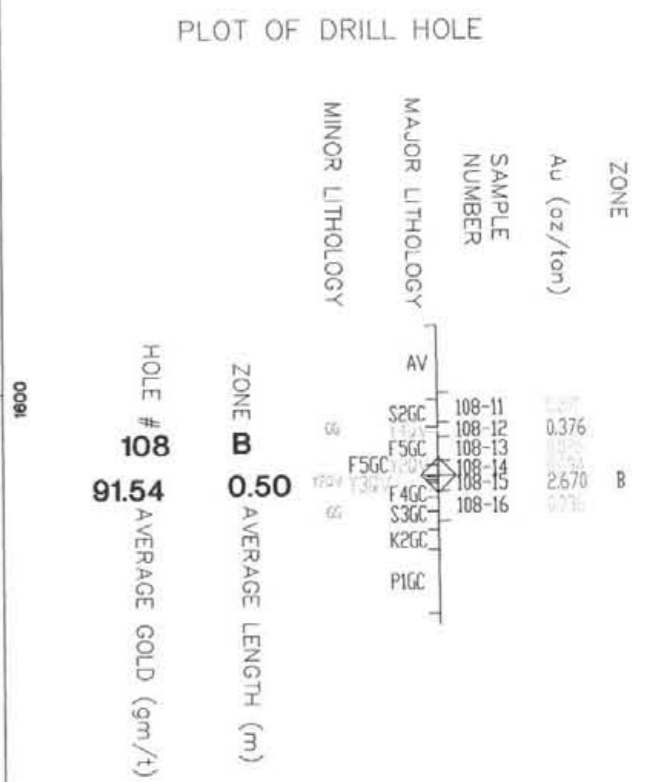
LEGEND

- LITHOLOGY**
- CS CASING
 - M MISSING CORE
 - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark grey-green to olive green, fine-grained to weakly porphyritic
 - BR BRECCIA fragmented rock in a clay or clay-chalotte rich matrix, commonly grades into gouge
 - GS GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
 - QV QUARTZ VEIN white to grey quartz with some inclusions, commonly 1% to 20% pyrite with lesser chloropyrite, pyrrhotite, sphalerite, galena, stibnite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, fine grained, sucrosic, may grade into pegmatite
 - FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich
 - GC GRANODIORITE CHILL MARGEN medium to dark grey, fine grained, up to 10% biotite or hornblende
 - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 10% biotite or hornblende
 - GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
 - PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
 - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 10% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANICS dark grey-green to near black, very fine-grained to aphanitic
 - SPV PORPHYRYtic VOLCANICS above, phenocrysts of plagioclase or hornblende to about 20%
 - VB VOLCANIC BRECCIAS above, brecciated (primary) with andesitic matrix, matrix rarely contains up to 20% pyrite - pyrrhotite - chloropyrite

- ALTERATION CODES**
- | | | | |
|----|----------------------|----|----------------|
| Am | ARGILLIC | Pm | PROPYLITIC |
| Ph | PHYLIC | Ss | SERPENTINIC |
| FK | K-spar STABLE PHYLIC | SK | SKARN |
| Km | POTASSIC | Xm | SILICIFICATION |
- (n = 1 TO 5, WEAK TO INTENSE)

- SULFIDE CONTENT CODES (quartz veins)**
- | | |
|----|--------------------------|
| Y1 | less than 1% sulfide |
| Y2 | 1% to 5% sulfide |
| Y3 | 5 - 10% sulfide |
| Y4 | 10 - 20% sulfide |
| Y5 | 20 - 30% sulfide |
| Y6 | greater than 30% sulfide |

- SYMBOLS**
- LITHOLOGIC CONTACT
 - TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labelled on sections)
 - FAULT OR SHEAR



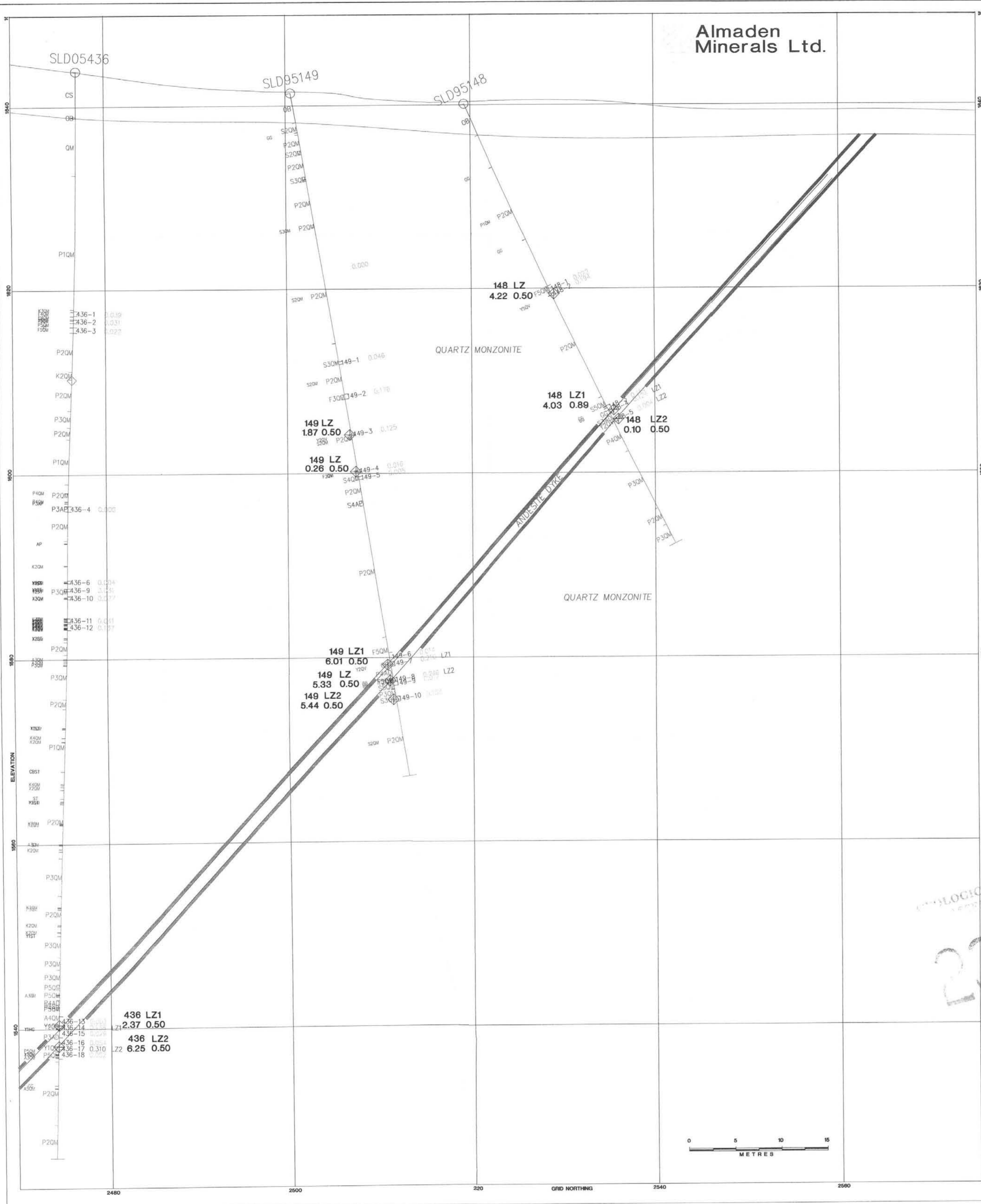
ALMADEN MINERALS LTD.
103 - 750 West Pender Street, Vancouver, British Columbia V6C 2T8

ELK PROPERTY
LAKE ZONE AREA
DIAMOND DRILL SECTION
2260E
SCALE 1 : 250
LOOKING WEST

Drawn by W.J. JM
February, 2006

Plate 20

Almaden Minerals Ltd.



LITHOLOGY

CS CASING
 MI MISSING CORE
 OB OVERRIDDEN

TERTIARY

AD ANDESITE DYKE dark grayish-green to olive green, fine-grained to weakly porphyritic
 BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
 GG GOUGE clay rich with numerous rock fragments, shear foliation or banding may be evident
 QV QUARTZ VEIN white to gray quartz with some sericite, commonly 30% to 50% pyrite with lesser chloropyrite, pyrrhotite, sphalerite, galena, tetrahedrite, rare visible gold

JURASSIC

OSPREY LAKE BATHOLITH

AP APLITE pink to light gray, fine grained, saccharic, may grade into pegmatite
 FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich
 GC GRANODIORITE CELL MANGIN medium to dark gray, fine grained, up to 10% biotite or hornblende
 GD GRANODIORITE medium to dark gray, fine to medium grained, up to 10% biotite or hornblende
 GR GRANITE pink to pinkish gray, quartz - k-spar rich with some hornblende
 PG PEGMATITE pink to light gray, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
 QM QUARTZ MONZONITE light to medium pinkish gray, coarse grained pegmatitic with up to 10% biotite or hornblende

TRASSIC

NICOLA GROUP VOLCANICS

AV ANDESITIC VOLCANICS dark gray-green to near black, very fine-grained to aphanitic
 PV PORPHYRY VOLCANIC dark gray to black, phenocrysts of plagioclase or hornblende to about 20%
 DVI VOLCANIC BRECCIA above, brecciated (primary) with andesitic matrix, matrix rarely contains up to 20% pyrite - pyrrhotite - chloropyrite

ALTERATION CODES

AR ARGILLIC
 PH PHYLIC
 FS FINE GRAIN STABLE PHYLIC
 KA POTASSIC

PR PROPYLITIC
 SI SERICITIC
 SK SKARN
 SL SULFIDATION

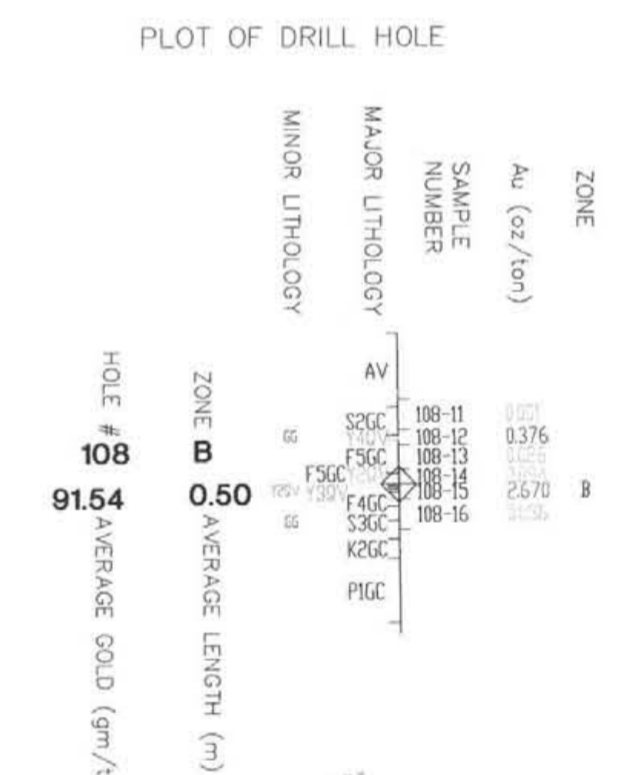
(+ 1 TO 5, WEAK TO INTENSE)

SULFIDE CONTENT CODES (quartz veins)

Y1 less than 1% sulfide
 Y2 1% to 5% sulfide
 Y3 5 - 10% sulfide
 Y4 10 - 20% sulfide
 Y5 greater than 20% sulfide

SYMBOLS

— LITHOLOGIC CONTACT
 — TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
 — FAULT OR SHEAR



23.203

ALMADEN MINERALS LTD.
 103 - 7505 West Pender Street Vancouver, British Columbia V6C 2T8

ELK PROPERTY
 LAKE ZONE AREA
 DIAMOND DRILL SECTION
2460E
 SCALE 1 : 250
 LOOKING WEST

Drawn by WJ, JM
 February, 2006

Plate 21

