**MAP NO.:** 115 I 7

**ASSESSMENT REPORT** X
**PROSPECTUS**
**CONFIDENTIAL** X
**OPEN FILE**

**DOCUMENT NO:** 093023
**MINING DISTRICT:** WHITEHORSE
**TYPE OF WORK:** DIAMOND DRILLING

**REPORT FILED UNDER:** WESTERN COPPER HOLDINGS LIMITED/THERMAL EXPLORATION COMPANY

**DATE PERFORMED:** AUG 5 - SEPT 13, 1991 **DATE FILED:** MAY 7, 1992

**LOCATION:** **LAT.:** 62°21'N **AREA:** WILLIAMS CREEK

**LONG.:** 136°41'W **VALUE $:** N/A

**CLAIM NAME & NO.:** BOY 20 (Y51118), BOY 22 (Y51120), BOY 24 (Y51122), BOY 51-58 (Y51149-156) BOY 83 (Y51181), BOY 85 (Y51183), DUN 1F-3F (Y59382-384), WAR 22 (Y59373) W 1-49 (YB26708-756), W 50-58 (YB36249-257), W 59-80 (YB36452-YB473) WAR 23-31 (YB36240-248), WAR 32-37 (YB36446-451)

**WORK DONE BY:** M.H. HOLTBY

**WORK DONE FOR:** WESTERN COPPER HOLDINGS LIMITED/THERMAL EXPLORATION COMPANY

**DATE TO GOOD STANDING:**

| | |
|---|---|
| | |
| | |
| | |
| | |
| | |

**REMARKS:** 115I 008 3400 METERS OF HQ DIAMOND DRILLING DONE IN 35 HOLES TO TEST FOR CONTINUITY OF MINERALIZATION. ALSO, 22 TRENCHES WERE CUT ON THE #1 AND #4 ZONES. 83 LINE-KM OF VLF AND MAG WERE COMPLETED AS WELL AS UPGRADING THE ROAD AND BASELINE ENVIRONMENTAL STUDIES.

Indian and Northern Affairs Canada | Affaires indiennes et du Nord Canada

M.R. file no.

R.M.M.R. file no.

Date forwarded 7 May 92.

# TRANSMITTAL FORM

OFFICE OF THE REGIONAL MANAGER MINERAL RIGHTS MAY 07 1992 WHITEHORSE YUKON TERRITORY

From ▶ Mining Recorder at: Whitehorse

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☒ DIAMOND DRILL LOGS — Claims: BOY, WG&AC, WAR, DUN — Claim sheet no.: 115I-07
- ☐ QUARTZ ASSESSMENT REPORT — Claims — Claim sheet no.
  Type of report — Submitted by
  Cls. work performed on — $ req. for ren. applicatio

Signature

Date returned

REPLY ACTION

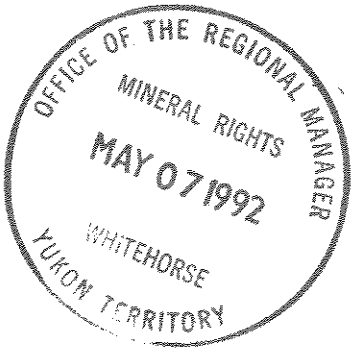
093023

Signature

802-37 (7-88)

# WESTERN COPPER HOLDINGS LIMITED

Suite 900, 850 West Hastings Street, Vancouver, B.C. V6C 1E1
Phone (604) 689-3846 Fax (604) 689-3847



May 5, 1992

Mining Recorders Office
#102 - 300 Main Street
Whitehorse, Yukon
Y1A 2B5

Attention: Mr. R.H. Whittingham

Dear Mr. Whittingham:

**Re: Williams Creek Property**

Enclosed please find 2 copies of an assessment report on the above-noted claims for work filed March 17, 1992.

Yours truly,

WESTERN COPPER HOLDINGS LIMITED

Max Holtby
Project Geologist

Encl.

093023

M350

# ASSESSMENT REPORT

## WILLIAMS CREEK PROPERTY

| | |
|---|---|
| BOY 20 | Y51118 |
| BOY 22 | Y51120 |
| BOY 24 | Y51122 |
| BOY 51-58 | Y51149-156 |
| BOY 83 | Y51181 |
| BOY 85 | Y51183 |
| DUN 1F-3F | Y59382-384 |
| WAR 22 | Y59373 |
| AC 2F-3F | Y91722-723 |
| W1-49 | YB26708-756 |
| W50-58 | YB36249-257 |
| W59-80 | YB36452-473 |
| WAR 23-31 | YB36240-248 |
| WAR 32-37 | YB36446-451 |

RECEIVED
MAY - 7 1992
MINING
RECORDERS OFFICE
WHITEHORSE, Y.T.

WHITEHORSE MINING DIVISION
NTS 115I/7
LAT. 62° 21'N LONG. 136° 41'W

WESTERN COPPER HOLDINGS LTD.
900 - 850 WEST HASTINGS STREET
VANCOUVER, B.C. V6C 1E1

MAY 1992

M.H. HOLTBY, F.G.A.C.

093023

For diamond drilling conducted between August 5 and September 13, 1991 on the Boy 56 and Boy 85 claims.

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## APPENDIX


1 Diamond Drill Hole Logs with Assays
2 Cost Statement Invoices


## FIGURES


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| Figure 1 | Location Map | after page 1 |
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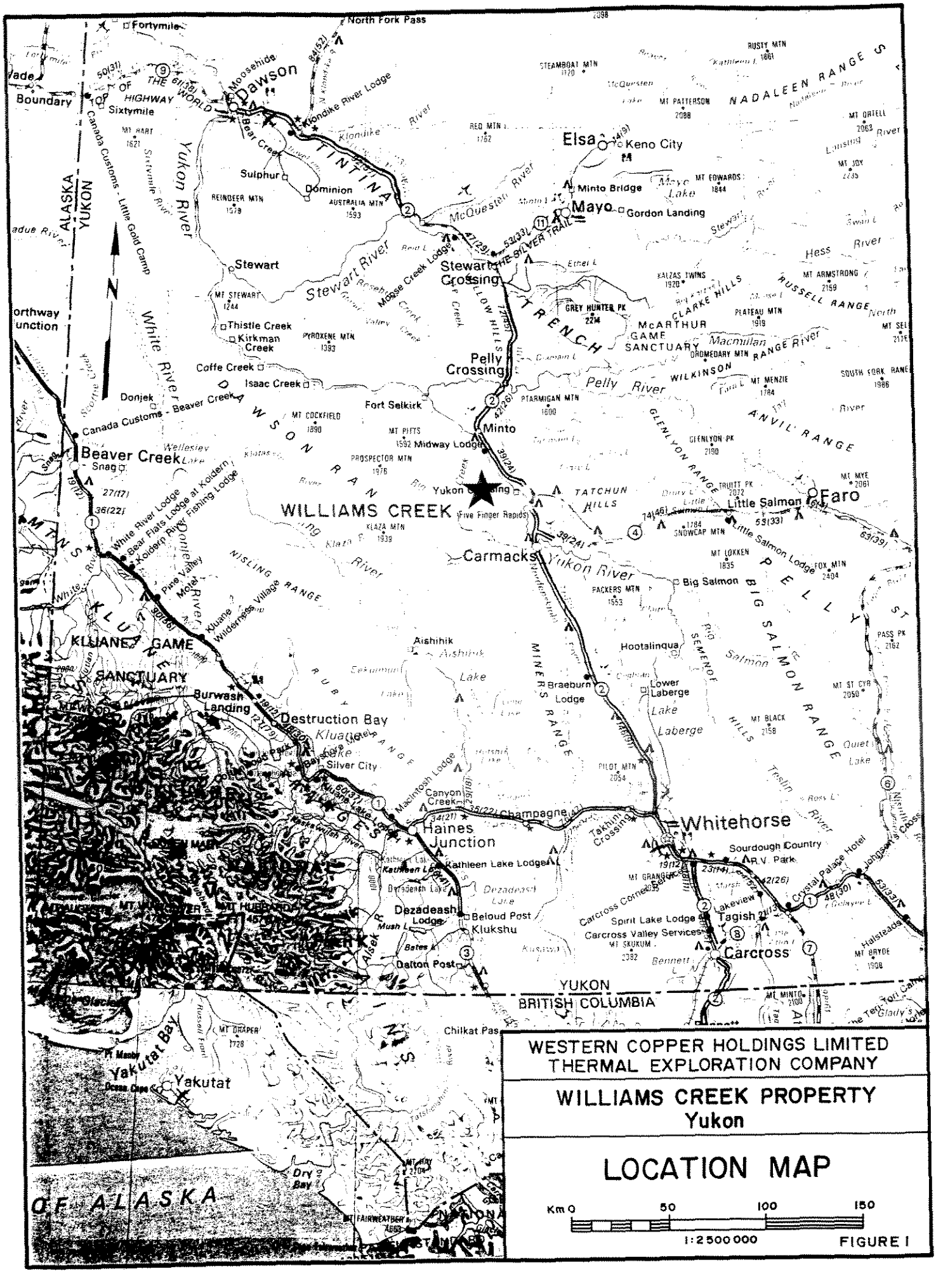
## 1. INTRODUCTION

The Williams Creek copper-gold deposit was originally staked in 1970 by G. Wing of Whitehorse. Later that year the property was optioned by the Dawson Range Joint Venture (Straus Exploration Inc., Great Plains Development of Canada Ltd., Trojan Consolidated Minerals Ltd. and Molybdenum Corporation of America). The deposit was found by G. Abbott and D. Eaton during the Dawson Range Joint Venture's property examination. The joint venture conducted soil geochemical and geophysical surveys, trenching and 23,379 feet of diamond drilling before abandoning its interest in the property to Archer, Cathro & Associates Limited in 1982, which then sold its interest to Archer, Cathro & Associates (1981) Limited.

In 1989 Western Copper Holdings Limited and Thermal Exploration Company optioned the property. Since 1989 Western Copper Holdings and Thermal Exploration have carried out extensive trenching, 12,419 feet of diamond drilling, VLF electromagnetic and magnetic geophysical surveys, metallurgical testwork, access road upgrading and baseline environmental studies.

## 2. LOCATION AND ACCESS

The Williams Creek property (Figure 1) is located in the Dawson Range at latitude 62° 21'N and longitude 136° 41'W (NTS 115I/7), some 200 km north of Whitehorse. The property is located west of the Yukon River on Williams Creek, 38 km northwest of the town of Carmacks. The property is accessible by a 12 km road extending north from km 33 on the secondary, government maintained, all-weather Freegold Road that extends


WESTERN COPPER HOLDINGS LIMITED
THERMAL EXPLORATION COMPANY
WILLIAMS CREEK PROPERTY
Yukon
LOCATION MAP
Km 0 50 100 150
1:2500000
FIGURE 1
WILLIAMS CREEK
Dawson
Mayo
Elsa
Keno City
Stewart Crossing
Pelly Crossing
Minto
Carmacks
Fort Selkirk
Stewart
Faro
Little Salmon
Big Salmon
Whitehorse
Haines Junction
Destruction Bay
Burwash Landing
Beaver Creek
Snag
Donjek
Sulphur
Dominion
Sixtymile
Fortymile
Boundary
North Fork Pass
Moosehide
Klondike River Lodge
Bear Creek
Thistle Creek
Kirkman Creek
Coffe Creek
Isaac Creek
Midway Lodge
Yukon Crossing
Five Finger Rapids
Aishihik
Hootalinqua
Braeburn Lodge
Lower Laberge
Champagne
Kathleen Lake Lodge
Silver City
Dezadeash Lodge
Beloud Post
Klukshu
Dalton Post
Canyon Creek
Takhini Crossing
Sourdough Country R.V. Park
Crystal Palace Hotel
Lakeview
Tagish
Spirit Lake Lodge
Carcross Valley Services
Carcross
Carmacks
Pelly River
Yukon River
Stewart River
White River
Klondike River
Kluane Lake
Kluane Wilderness Village
Pine Valley Motel
White River Lodge
Bear Flats Lodge at Koidern
Koidern River Fishing Lodge
Canada Customs - Beaver Creek
Canada Customs - Little Gold Camp
Alaska Highway
Top of the World Highway
McQuesten River
Mayo Lake
Lake Laberge
Tatchun Hills
Clarke Hills
Yellow Hills
Glenlyon Range
Anvil Range
Big Salmon Range
Nisling Range
Miners Range
Kluane Range
Ruby Range
Pelly Mountains
Wolverine Glacier
Yakutat Bay
Yakutat
Dry Bay
Chilkat Pass
Alaska
Yukon
British Columbia

west from Carmacks. Carmacks, on the Yukon River, lies 175 km by road, north of Whitehorse.

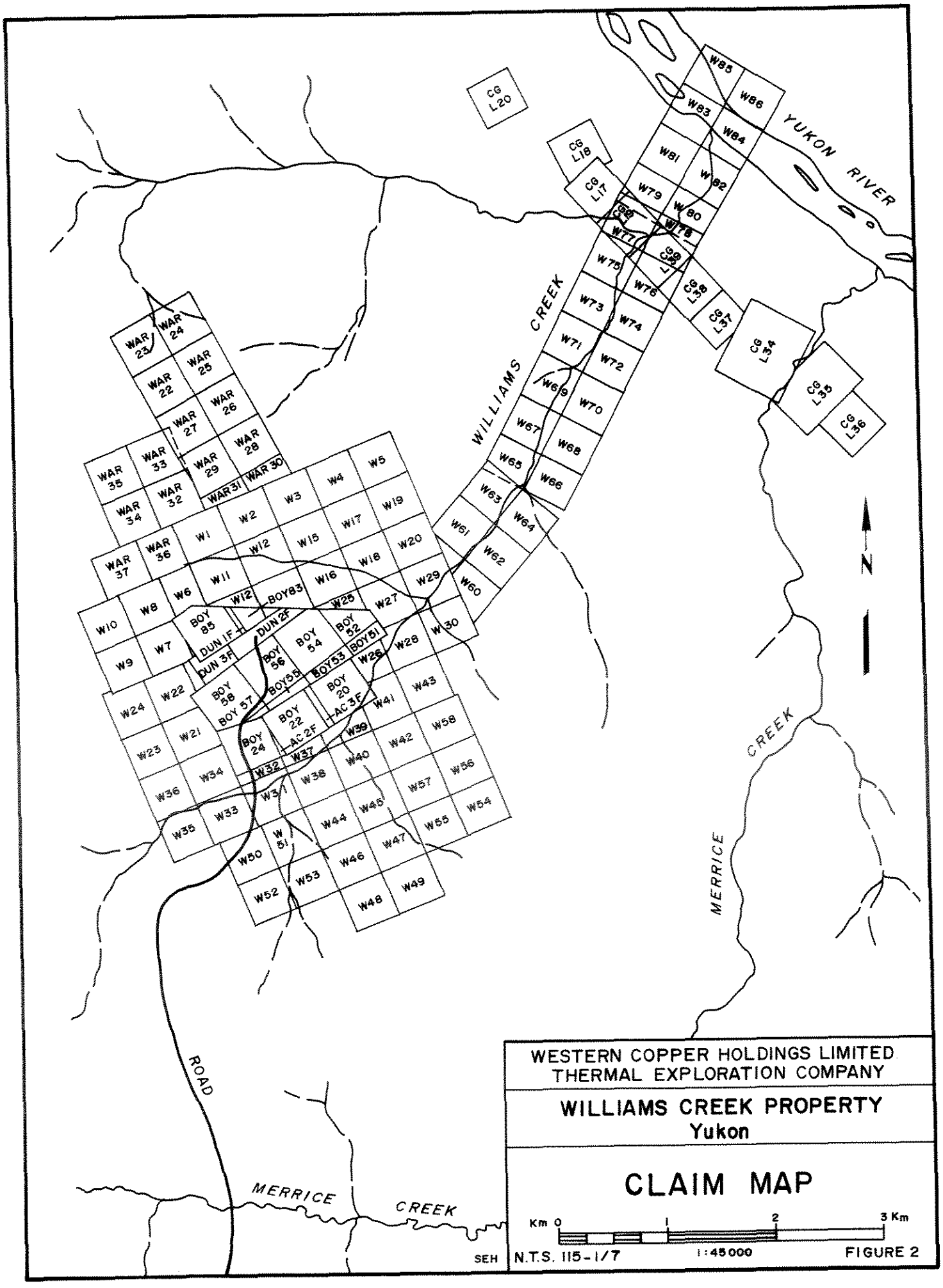
The property access road from the Freegold Road was upgraded in 1991 but under wet conditions a 4-wheel drive vehicle is required and further upgrading will be required if mine development is to begin.

## 3. CLAIM STATUS

The Williams Creek property (Figure 2) consists of a 120 claim contiguous block of 115 full size and 5 fractional mineral claims in the Whitehorse Mining District. The property is under option by Western Copper Holdings Limited and Thermal Exploration Company from Archer, Cathro & Associates (1981) Limited. Archer, Cathro is the 100% owner of the claims; subject to annual payments, to Mr. A. Arsenault in respect to 19 claims. Thermal Exploration Company has earned its 50% option interest by funding the initial exploration and Western Copper Holdings Limited is earning its 50% option interest. Archer, Cathro & Associates (1981) Limited retain a royalty.

The following claims compromise the property.

| Claim Name | Grant Number | Expiry Date* |
|---|---|---|
| BOY 20 | Y51118 | March 9, 2003 |
| BOY 22 | Y51120 | March 9, 2003 |
| BOY 24 | Y51122 | March 9, 2003 |
| BOY 51-58 | Y51149-Y51156 | March 9, 2003 |
| BOY 83 | Y51181 | March 9, 2003 |
| BOY 85 | Y51183 | March 9, 2003 |


WESTERN COPPER HOLDINGS LIMITED
THERMAL EXPLORATION COMPANY
WILLIAMS CREEK PROPERTY
Yukon
CLAIM MAP
Km 0 1 2 3 Km
N.T.S. 115-1/7
1:45000
FIGURE 2
SEH
YUKON RIVER
WILLIAMS CREEK
MERRICE CREEK
ROAD
N
CG L20
CG L18
CG L17
CG L34
CG L35
CG L36
CG L37
CG L38
CG L39
W85
W86
W83
W84
W81
W82
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WAR 26
WAR 27
WAR 28
WAR 29
WAR 30
WAR 31
WAR 32
WAR 33
WAR 34
WAR 35
WAR 36
WAR 37
BOY 85
DUN 1F
DUN 2F
DUN 3F
BOY 83
BOY 52
BOY 51
BOY 54
BOY 56
BOY 53
BOY 55
BOY 58
BOY 57
BOY 20
AC 3F
BOY 22
AC 2F
BOY 24

| | | |
|---|---|---|
| DUN 1-3F | Y59382-Y59384 | March 9, 2003 |
| AC 2F | Y91722 | March 9, 2003 |
| AC 3F | Y91723 | March 9, 2003 |
| W 1-49 | YB26708-YB26756 | March 9, 2000 |
| W 50-58 | YB36249-YB36257 | March 9, 1996 |
| W59-80 | YB36452-YB36473 | March 9, 1996 |
| W81-86 | YB36474-YB36479 | September 19, 1992 |
| WAR 22 | Y59373 | March 9, 2003 |
| WAR 23-31 | YB36240-YB36248 | March 9, 1996 |
| WAR 32-37 | YB36446-YB36451 | March 9, 1996 |

*Expiry date upon acceptance of assessment work reported herein.

## 4. PHYSIOGRAPHY, CLIMATE AND VEGETATION

Climate in the Carmacks area is marked by warm summers and cold winters, typically continental. Precipitation is light with moderate snow falls. At Carmacks climatological data is:

| | Temperatures | | Precipitation |
|---|---|---|---|
| | mean high (°C) | mean low (°C) | (mm) (water equivalent) |
| January | -23 | -33 | 18 |
| February | -13 | -26 | 13 |
| March | -3 | -20 | 11 |
| April | 7 | -7 | 7 |
| May | 14 | 0 | 16 |
| June | 20 | 5 | 37 |
| July | 22 | 7 | 42 |
| August | 20 | 5 | 34 |
| September | 13 | 0 | 25 |
| October | 3 | -7 | 18 |
| November | -10 | -18 | 19 |
| December | -19 | -29 | 15 |

Total precipitation averages 25.5 cm (water equivalent) with 15.8 cm rain and 95 cm snow.

Winter conditions may be considered to extend over that period where daytime maximum temperatures average below zero (November to March). At the Williams Creek property the climate will be a little more variable than in Carmacks due to the elevation difference but not extremely so as there is only about a 300 m elevation difference.

Topography of the property area is subdued. Topographic relief over the whole property is 500 m but in the immediate area of No. 1 and 4 Zones topographic relief is only 230 m. Elevations range from 485 m where the claims reach the Yukon River to 1,000 m on the western edge of the claim block.

Outcrop is not common due to the subdued topography and lack of extensive glaciation. The property lies on the northeast flank of the unglaciated Dawson Range, at the western margin of Pleistocene glaciation - Reid glacial advance of greater than 80,000 years b.p. age. The major portion of the claim block lying north of Williams Creek is unglaciated above approximately 760 m elevation. The claim block area south of Williams Creek valley and peripheral portions of the claim block, especially to the east, are covered by a veneer of ablation and lodgement bouldery till with a sandy to silty matrix, generally less than 1 m thick.

Overburden is generally thin; a few centimetres of moss and organic material overlie 5 to 20 cm of white felsic volcanic ash (White River ash approximately 1,250 years old). In unglaciated areas the white ash is underlain by 10 cm or so of organics or peat and 15 to 50 cm of soil. Bedrock is extensively weathered, particularly gneissic units. At the eastern end of trench 91-6 bedrock was 20 feet below surface, the deepest recorded in the unglaciated area. Soil creep is evident and active in unglaciated areas and is particularly well exposed in trenches on No. 4 Zone. In the glaciated areas the white ash is underlain

by tills, generally 1 m or so thick except along Williams Creek valley where an undetermined depth of till and colluvium has collected.

Vegetation in wet areas, especially along Williams Creek valley consists of willows and alders. Drier areas are covered by spruce trees. The property is below treeline.

## 5. 1991 PROGRAMME

Western Copper Holdings Limited and Thermal Exploration Company conducted a major work programme in 1991. Archer, Cathro & Associates (1981) Limited supervised the exploration programme. A total of 11,364 feet of HQ size diamond drilling was carried out; 11,158 feet in 35 holes on the No. 1 Zone and 206 feet in one hole on the No. 4 Zone. Twenty-two trenches totalling 6,090 feet were cut on No. 1 and No. 4 Zones. An area of approximately one hectare was stripped at the southern end of No. 1 Zone. A geophysical program, consisting of electromagnetic (VLF-EM) and magnetic surveys, was carried out on a single grid of 62 survey lines totalling 52 miles. The access road was upgraded early in 1991. Baseline environmental studies for fish and wildlife populations and water quality began in 1991.

A petrographic examination of core samples of both country rocks and the No. 1 Zone gneisses has been carried by L.A. Clark. Global and mining ore reserves have been calculated by an independent engineering firm, MPH Consulting Ltd. of Toronto, Ontario. Metallurgical studies are ongoing.

The 1991 field programme was primarily conducted to further define reserves of the No. 1 Zone. Secondary objectives were: (1) to begin baseline environmental studies that are required before production could begin, and (2) to determine the geophysical

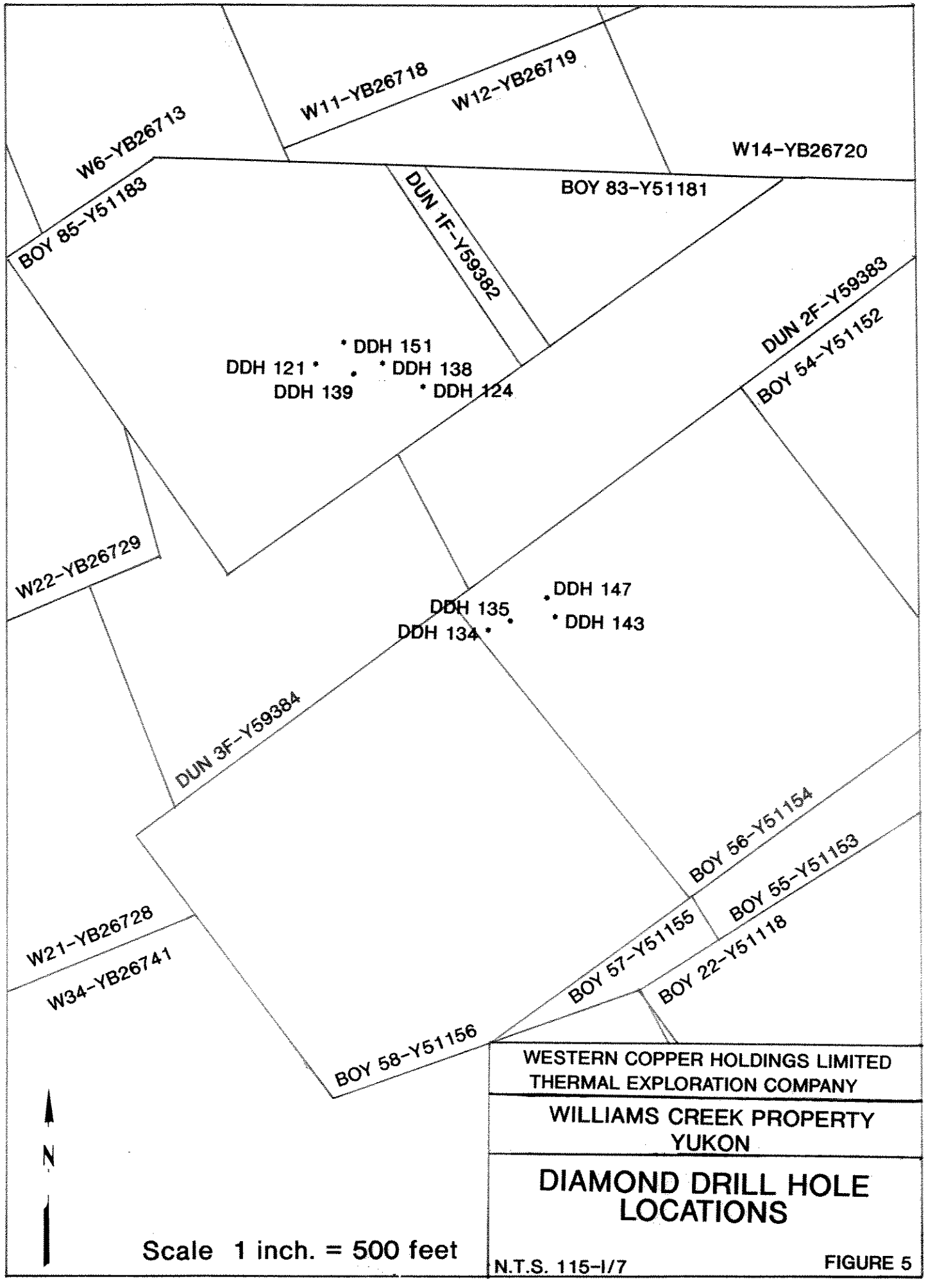
characteristics of the deposit and whether similar geophysical signatures occur elsewhere on the claims.

Diamond drilling was contracted to Olympic Drilling Consulting Ltd. of New Westminster, B.C. Diamond drilling was supervised initally by Bill Wengzymnski and later by Ian Talbot. Core logging was carried out by Mike Phillips, Ian Talbot and the author. All personnel stayed onsite in the tent and trailer camp.

Mineralized core and selected non-mineralized core was split and sent to Chemex Labs, Ltd. in North Vancouver for analysis. Assays for total copper and non-sulphide copper were by standard acid digestion with an AA finish. Gold and silver content was determined by fire assay. Sulphide copper content was determined by subtracting the oxide copper content from total copper content.

Nine drill holes are herein reported for assessment purposes. All holes were drilled to test No. 1 Zone. Reported drill holes are:

| Diamond Drill Hole | Azimuth | Dip | Length (feet) | Grid North | Grid East | Elevation (feet) |
|---|---|---|---|---|---|---|
| 121 | 247° | -50° | 260 | 1900.3 | -48.2 | 2848.2 |
| 124 | 247° | -50° | 566 | 1707.7 | 342.3 | 2827.9 |
| 134 | 247° | -50° | 256 | 600.2 | 185.7 | 2894.4 |
| 135 | 247° | -50° | 316 | 600.1 | 317.1 | 2873.4 |
| 138 | 247° | -50° | 426 | 1800.0 | 224.2 | 2835.9 |
| 139 | 247° | -50° | 253 | 1800.4 | 66.2 | 2849.8 |
| 143 | 247° | -50° | 455 | 399.5 | 399.3 | 2858.9 |
| 147 | 247° | -50° | 529 | 600.9 | 483.5 | 2835.1 |
| 151 | 247° | -50° | 206 | 1900.0 | 99.5 | 2836.4 |


W6-YB26713
W11-YB26718
W12-YB26719
W14-YB26720
BOY 85-Y51183
BOY 83-Y51181
DUN 1F-Y59382
DUN 2F-Y59383
BOY 54-Y51152
DDH 151
DDH 121
DDH 138
DDH 139
DDH 124
W22-YB26729
DDH 147
DDH 135
DDH 143
DDH 134
DUN 3F-Y59384
BOY 56-Y51154
BOY 55-Y51153
W21-YB26728
W34-YB26741
BOY 57-Y51155
BOY 22-Y51118
BOY 58-Y51156
N
Scale 1 inch. = 500 feet
WESTERN COPPER HOLDINGS LIMITED
THERMAL EXPLORATION COMPANY
WILLIAMS CREEK PROPERTY
YUKON
DIAMOND DRILL HOLE LOCATIONS
N.T.S. 115-I/7
FIGURE 5

All drill hole locations are plotted on No. 1 Zone Geology map, Figure 91-1 in pocket. Drill holes 121, 124, 138, 139 and 151 are located on Boy 85 claim, while drill holes 134, 135, 143 and 147 are located on Boy 56 claim (Figure 4).

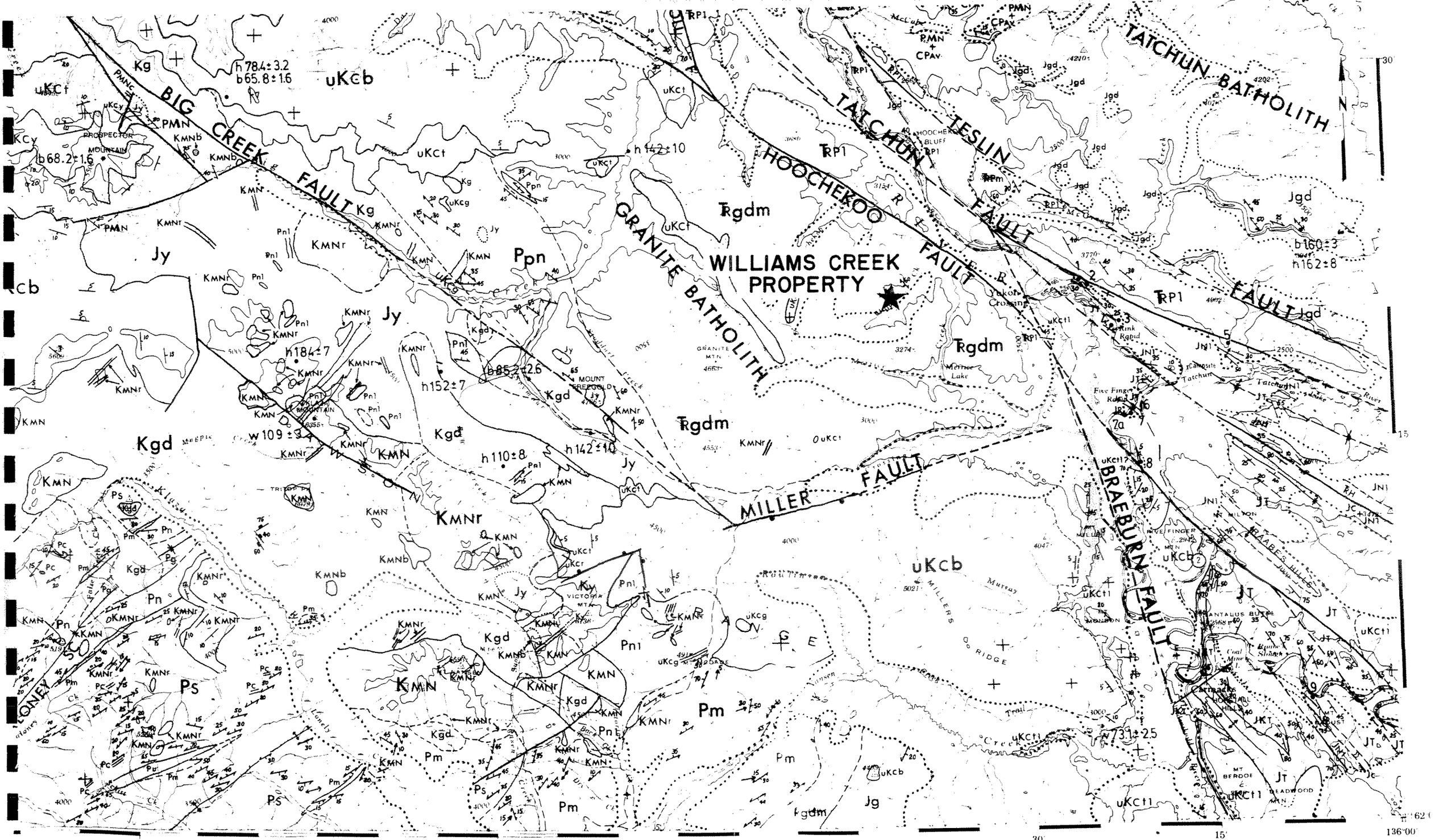
## 6. REGIONAL GEOLOGY

The regional geology (Figure 3) was described by Bostock in 1936 and more recently by Tempelman-Kluit in 1975, 1980 and 1985.

The Carmacks region lies within the Intermontaine Belt, which in the Carmacks map area is divisible into the Yukon Cataclastic Complex, Yukon Crystalline Terrane and Whitehorse Trough.

Units of the Whitehorse Trough lie to the east of the Hoochekoo Fault, east of the Williams Creek property. Whitehorse Trough comprises Upper Triassic intermediate to basic volcanics (Povoas Formation) capped by carbonate reefs (Lewes River Group) and Lower Jurassic greywacke, shale and conglomerate, derived from the underlying Lewes River Group and Upper Triassic granitic rocks (Laberge Group).

Yukon Cataclastic Complex, host to the Williams Creek deposit, includes hornblende-biotite-chlorite gneiss with interfoliated biotite granite gneiss, Permian (?) Selwyn Gneiss, intruded by Upper Triassic Klotassin Suite--Minto Pluton and Granite Mountain Batholith--mesocratic, weakly foliated, biotite-hornblende granodiorite with screens or pendants of strongly foliated feldspar-biotite-hornblende-quartz gneisses.




# REGIONAL GEOLOGY

FIGURE 3

Yukon Crystalline Terrane, extensively exposed southwest of the William Creek deposit, includes quartz mica schist with quartzite, marble and amphibolite, Early Palaeozoic(?) age and possibly equivalent to Pelly Gneiss intruded by Cretaceous and Jurassic granites and syenites. Templeman-Kluit (1985) has included Upper Cretaceous Carmacks Group intermediate to basic volcanics and Cretaceous Mount Nansen intermediate to acid volcanics and subvolcanic equivalents in the Yukon Crystalline Terrane.

Mesozoic strata of the Whitehorse Trough are only exposed in fault contact with Yukon Crystalline Terrane and Yukon Cataclastic Complex, but may have rested depositionally on them or on certain strata of them. The relationship between Yukon Crystalline Terrane and Yukon Cataclastic Complex is unknown.

Younger plutonic rocks intrude all three divisions of the Intermontaine Belt and their contacts. Carmacks Group and Mount Nansen volcanics overlie portions of all older rocks, suggesting that they should not be classified in the Yukon Crystalline Terrane, but are younger rocks that obscure relationships between the older terrane rocks.

The predominant northwest structural trend is represented by the major Hoochekoo, Tatchun and Teslin faults to the east of the Williams Creek property and the Big Creek Fault to the west. East to northeast, younger faulting is represented by the major Miller Fault to the south of the Williams Creek property.

The Minto deposit, located 40 km to the northwest of Williams Creek, is considered to be a non-oxidized equivalent to the Williams Creek deposit. Minto has a published reserve of 7.2 million tons grading 1.86% copper, 0.015 oz gold per ton and 0.2 oz silver per ton.

## 7. PROPERTY GEOLOGY

The Williams Creek copper-gold deposit lies within the Yukon Cataclastic Complex. The deposit is hosted by feldspathic-mafic gneisses (generally quartz deficient) that form a roof pendant within Upper Triassic hornblende-biotite granodiorite of the Granite Mountain Batholith. The deposit constitutes No. 1 Zone of 13 defined zones known on or in the immediate vicinity of the property.

The Granite Mountain granodiorite is massive appearing, medium to coarse grained and generally equigranular. A weak foliation is present in places, particularly at or near the hanging wall contact of the gneiss units.

During the 1991 program, granodiorite, unit 2 on maps and in drill logs, was divided into five divisions: (a) coarse biotite granodiorite; (b) coarse hornblende granodiorite; (c) coarse to medium quartz-feldspar dominant granodiorite; (d) K-feldspar porphyritic granodiorite; and (e) assimilated gneiss. Division 2c, the most common occurrence of granodiorite, contains 5% to 15% biotite and/or hornblende, tends to be medium grained rather than coarse grained and grades into the other divisions, excepting 2e. Biotite and/or hornblende comprise 15% - 30% where considered mafic rich (units 2a and 2b). Unit 2a is more common than unit 2b, but sections with equal biotite and hornblende quantities are common. Mafics form coarse masses interstial to quartz and feldspar phenocrysts.

K-feldspar porphyry (unit 2d) is the least common granodiorite variety. This porphyry often grades from pink K-feldspar megacrystic to grey K-feldspar megacrystic with white feldspar megacrysts. The white feldspar megacrysts may mark a transition from division

2d to 2c as they grade with decreasing abundance and occasionally decreasing size into division 2c.

Assimilated gneiss (unit 2e) is generally minor in extent except near the northern end of No. 1 Zone. In most drill holes, intercepts classified as assimilated gneiss are limited to 1 or 2 feet adjacent to unit 1 gneiss or to thin intercepts within unit 1 gneiss. The most extensive sections classified as assimilated gneiss are in drill holes 138, 139 and 151, the northernmost drill intercepts of No. 1 Zone. In general, assimilated gneiss is a fine-grained, grey, well-foliated, leucocratic granodiorite with minor to very minor fine-grained biotite.

A petrographic examination of three unit 2 samples has been made by L.A. Clark. Using the I.U.G.S. classification, the three samples classify as: unit 2c - diorite; unit 2d - quartz monzodiorite to granodiorite; and 2e - tonalite. Given that this petrographic examination only includes 3 samples, the field name granodiorite has been retained since this name is based upon wider studies of the Granite Mountain Batholith by Templeman-Kluit, but it must be acknowledged that variations within the Granite Mountain Batholith result in areas of silica under saturation and plagioclase over saturation. These variations are probably caused by the assimilation of the precursor rocks to unit 1 gneisses.

Copper-gold mineralization at Williams Creek is hosted by feldspathic-biotite-hornblende-quartz gneisses. These gneisses have been designated unit 1 during mapping and core logging and subdivided into 9 subdivisions: (a) coarse-grained biotite dominant; (b) coarse-grained hornblende dominant; (c) medium-grained biotite dominant; (d) medium-grained hornblende dominant; (e) medium-grained feldspar-quartz dominant; (f) fine-grained biotite dominant; (g) fine-grained hornblende dominant; (h) with $>2$ cm augen;

and (i) with <2 cm augen. When dominant, mafics comprise as much as 50% or more of the rock constituents.

Unit 1 gneisses often have an igneous appearance that has resulted in their classification as plutonic rocks in most previous reports. The petrographic study by L.A. Clark examined 18 samples of unit 1 rocks. Fifty-five percent of these samples classify in the I.U.G.S. classification as silica undersaturated diorites. Fifteen percent classify as silica undersaturated monzodiorite, 1 sample (5%) classifies as granodiorite and 3 samples (15%) are considered volcanic. Units 1a to 1d have a coarse- to medium-grained igneous appearance and classify as silica undersaturated diorite or monzodiorite with the appropriate dominant mafic modifier. The specimen of unit 1d examined in the petrographic study was particularly mafic rich and was classified as basalt. Unit 1e, feldspar-quartz dominant gneiss, was classified as granodiorite. During mapping and core logging unit 1e was often found to be difficult to distinguish from unit 2c. The gneissic texture, often faint, was the determining factor in classifying as unit 1e. Specimens of both units 1f and 1g were classified as andesites, again silica undersaturated.

While the petrographic study was limited in scope and biased towards unit 1c by the large number of samples of that unit, the rather unusual silica undersaturated nature of most examined samples, including one sample of unit 2c -- the most common occurrence of "granodiorite", has a significant bearing on considerations of the origin of the gneissic units. The two scenarios envisioned are: (a) intrusion of a silica undersaturated diorite to monzodiorite, or (b) assimilation of precursor rocks -- basic volcanics or ultrabasics; assimilation is the preferred scenario.

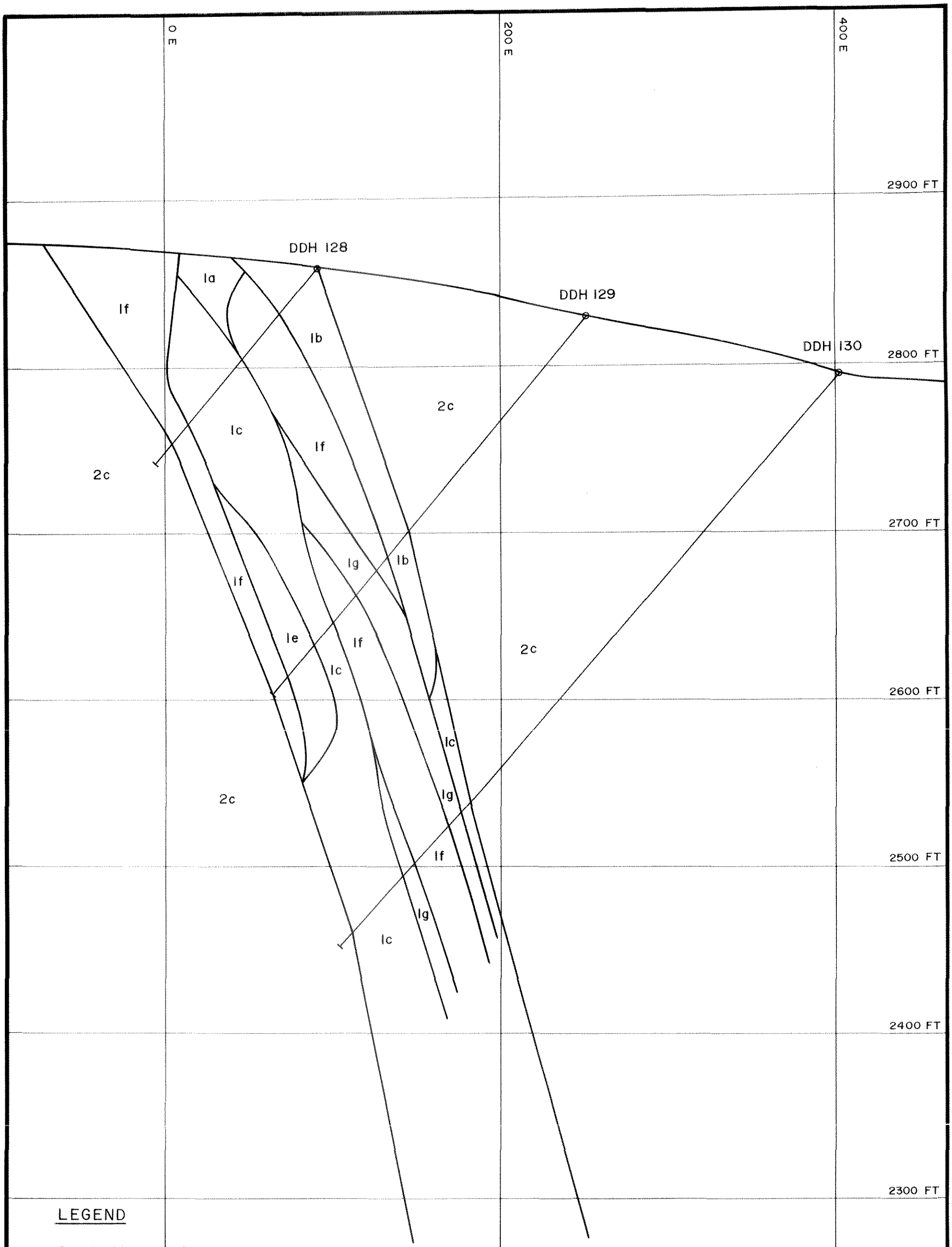
The Williams Creek deposit is similar to the Minto copper deposit 42 km to the north and to the Lucky Joe copper occurrence 80 km to the north. At Minto the ore is hosted by

siliceous gneiss, quartzofeldspathic gneisses, and biotite-rich gneisses while at Lucky Joe copper mineralization is hosted by a unit of biotite-muscovite and quartz-muscovite schists. The Lucky Joe occurrence is the least metamorphosed of the three. At Lucky Joe the stratigraphy has been interpreted as originally a sequence of sediments (quartzite, marble, arkosic arenites, etc.) and andesitic volcanics. At Minto metamorphism and assimilation by the Granite Mountain Batholith has disguised the original rock types, but a sedimentary origin been postulated.

At Williams Creek the general lack or very low quartz content and the high mafic content suggest a volcanic origin for the gneisses. An origin of arkosic sediments derived from a basic volcanic or plutonic regime could also be considered, but the poor continuity of rock units down dip, weighs against a sedimentary origin (Figure 4). An andesitic to basaltic volcanic, probably tuffaceous, agglomeratic or breccia precursor rock is considered the most likely. Assimilation and recrystallization has progressed to such a degree that evidence for differentiating between flows or pyroclastics is circumstantial. The distribution of units is reminiscent of pyroclastic deposition. In the Carmacks map-area the Povoas Formation is old enough to have been the precursor rocks but assimilation of another volcanic formation or metamorphic assemblage cannot be ruled out. This origin must be considered tenuous and problematic given the early nature of the investigation of the Williams Creek deposit but is favoured by the author.

The finding that some of the granodiorite is silica undersaturated diorite suggests that assimilating large volumes of basic volcanics has altered the chemistry of the Granite Mountain Batholith for a considerable area around No. 1 Zone.

Four post-assimilation but not post-faulting units were recorded during mapping and core logging. Thin fine-grained dykes (unit 6) are possibly feeders for Carmacks Group




LEGEND

2. Granite Mountain Batholith
   - 2c. coarse to medium leucocratic granodiorite

1. Gneiss
   - 1a. coarse-grained biotite dominant
   - 1b. coarse-grained hornblende dominant
   - 1c. medium-grained biotite dominant
   - 1d. medium-grained hornblende dominant
   - 1e. medium-grained feldspar-quartz dominant
   - 1f. fine-grained biotite dominant
   - 1g. fine-grained hornblende dominant

**Western Copper Holdings Limited / Thermal Exploration Company**

**Williams Creek Property**
**Yukon**

# CROSS-SECTION 1000N
# GEOLOGY

0 50 100 150
FEET

N.T.S. 115I/7

Figure 4

volcanics; they are not common. Ten quartz veins (unit 4) were recorded during logging of 1991 core. All were thin (0.1 to 0.2 feet) and were barren of primary sulphide mineralization and all were hosted by unit 2 granodiorites.

The only copper mineralization noted in any quartz vein was in one two-foot drill intercept just below the footwall to No. 1 Zone where malachite is deposited on fractures in four thin quartz veins cutting unit 2c. A barren quartz vein of 0.5 feet width was observed cutting unit 1c gneiss in trench 91-11.

Aplite (unit 5) and pegmatite (unit 3) dykes are common, aplite much less so than pegmatite. While divisible into two separate units aplite is usually associated with pegmatite suggesting fractionation from one intrusive event. These dykes vary from a few inches to ten feet in width. They intrude both unit 2 granodiorites and unit 1 gneisses. Both are barren of primary copper or sulphide mineralization but pegmatite is brittle and well fractured, providing space for deposition of secondary copper mineralization. Pegmatite has a high potassium feldspar content and has usually introduced potassic alteration (K-feldspar) into adjacent areas. This potassic alteration is often accompanied by epidote as fracture fillings or replacement of mafics.

Faulting is common on the Williams Creek property. The two most prominent fault orientations are north-northwest and north-northeast to northeast. Two secondary orientations of east and southeast are less common. The most obviously important faulting is north-northwest striking, parallel to the strike of the mineralized zones. No. 1 Zone has north-northwest striking faulting within the zone with splays trending out of the zone. This orientation, parallel to the major regional faults, probably reflects rupture resulting from the same stress that caused these regional faults.

Northeast striking faults often appear to be splays off north-northwest striking faults. This pattern is most prominently displayed where a series of northeast faults cut across No. 4 Zone. These faults splay, from 600 S to 1,200 S, off a north-northwest fault that parallels the baseline. Other important faults of this northeast strike are located at the southern and northern ends of No. 1 Zone.

East to east-southeast faults are also important as several dislocations of No. 1 Zone are likely related to faulting of this orientation. East striking faults may be more common than the 1991 geophysical survey suggests as the survey direction was poorly oriented for detection of such a fault direction.

## 7.1 No. 1 Zone

The Williams Creek deposit, as presently defined, is the No. 1 Zone (Figure 91-1). The zone extends in trench exposures and drill intercepts over a 2,300 foot strike length, from 1,900 N to 400 S, down-dip 1,200 feet and averages 112 feet wide. On surface it averages 153 feet wide for a true width of 140 feet to 150 feet.

To a depth of 700 to 800 feet (depending upon location) No. 1 Zone deposit has an estimated global reserve of 14.56 million tons grading 1.05% total copper, 0.90% oxide copper and 0.013 ounces gold per ton at a 0.01% copper oxide cut off grade (MPH Consulting Ltd., 1991). Copper mineralization is predominantly oxide to an 800 foot depth and sulphide below that depth. Primary copper mineralization is chalcopyrite and bornite with gold, magnetite, molybdenite, native bismuth, bismuthinite, arsenopyrite, pyrite and pyrrhotite. Molybdenite, native bismuth, bismuthinite and arsenopyrite occur rarely. Pyrite is virtually absent and pyrrhotite is absent in the oxide zone. A zonation of bornite at the north to chalcopyrite and then to pyrite and pyrrhotite at the south was

noted after the 1971 drill program. This zonation was based upon results of deeper drill holes into the primary sulphide mineralization. Drilling in 1991 was restricted to the oxide zone and no conclusive conclusions regarding sulphide zoning can be drawn from this drill program.

Oxide copper mineralization is primarily malachite with lesser azurite, cuprite, copper limonite (tenorite?), digenite, covellite and djurleite. Other oxides are limonite and goethite from weathered sulphides and specular hematite from weathered magnetite. Traces of gypsum are found in the oxide zone and anhydride in the sulphide zone. Spotty carbonate, up to 1%, occurs as fine veinlets and pervasively.

The character of the deposit changes along strike leading to a division into northern and southern halves at about line 800 N. The northern half is more regular in thickness down dip, dip angle and across width and down dip character. The northern half has an average strike of 150° to 155° with an average dip of 75°E, from 800 N to 1,500 N. From 1,500 N to 1,800 N the zone bends to the west to strike 125° with the dip steepening to 84°NE at 1,800 N. This bend in the zone is considered to be the result of faulting as the drill intercepted zone at 1,900 N is on strike with the 800 N to 1,500 N section.

The northern end of No. 1 Zone is an area of complexity that was not resolved by the 1991 geophysical survey. The above-mentioned bend in the zone, from 1,500 N to 1,800 N, may be the result of east striking or northeast striking faulting. The interpreted fault would need to cut across the baseline between 1,800 N and 1,900 N to result in the location of the drill intercepted zone at 1,900 N. Further complications are evident from the failure of the zone to surface in trenches at its projected location on section 1,900 N. A small gneissic exposure in trench 91-1, 170 feet west of the baseline, is on strike with

the 1,500 N to 1,800 N section of No. 1 Zone and has previously been described as No. 1 Zone, but it does not correlate with the drill intercepts on section 1,900 N. This small gneissic exposure is not considered to be No. 1 Zone by the author. The lack of a surface exposure on section 1,900 N, in spite of a long trench along section, suggests there may be a second fault that dips shallow to moderately to the north and cuts off the zone or that faulting of an unresolved bearing has shifted the near surface portion to an area not trenched. A northeast striking magnetic lineament crossing the baseline at 2,000 N may be the down dip geophysical expression of faulting in this area.

No. 1 Zone at section 1,900 N is relatively narrow, dips 82°E and is strongly assimilated. On section 1,900 N two drill holes, nos. 112 and 151, intercepted the zone. Shallow hole 151 intercepted 0.26% oxide copper, 0.30% total copper and 0.003 ounces gold per ton over 86.6 feet (true width 64 feet) while deeper hole 112 intercepted 0.49% oxide copper, 0.82% total copper and 0.01 ounces gold per ton over 72 feet (true width 54 feet). These intercepts suggest that No. 1 Zone is pinching and being increasingly assimilated at its northern end. Extension of No. 1 Zone to the north may be reflected by a magnetic lineament that extends from 2,000 N - 30 E to 4,000 N - 250 E. Drill hole 108 was drilled at 2,400 N - 80 E but it was collared too far west to test this magnetic lineament. An unmineralized gneissic zone was intersected by drill hole 108 but this may be a small zone similar to others observed in the footwall to No. 1 Zone. North of section 1,900 N No. 1 Zone must be considered open but present indications are that it is becoming increasingly assimilated, narrows and contains a lower copper grade (at least near surface).

As previously mentioned, the northern half of No. 1 Zone is regular in character, aside from the bend in the zone from 1,500 N to 1,800 N and the change in dip towards 1,800 N. This half of the zone demonstrates that copper grades form 2 or 3 populations that

are divisible into hangingwall and footwall zones and occasionally into more complex patterns. The following table lists oxide copper averages for hangingwall and footwall divisions with occasional other divisions, from 800 N to 1,800 N. Major rock type divisions are also listed in order of abundance (see Section 7 for codes). Drill holes within each section are listed with intercepts from nearest to surface to deepest.

| Section (drill hole) | Hangingwall % Oxide Cu (rock types) | Middle Division % Oxide Cu (rock types) | Footwall % Oxide Cu (rock types) |
|---|---|---|---|
| 1800 N | | | |
| 139 | 52.2 ft. 0.09%<br>1a > 2e ~ 1d ~ 1c | | 86.7 ft. 0.49%<br>1e ~ 1a ~ 1b > 1f > 1c |
| 138 | 95 ft. 0.30%<br>1b > > 1c > 1e ~ 2c | | 103.5 ft. 0.56%<br>1e ~ 1d > 1b > 1a |
| 1700 N | | | |
| 122 | 52 ft. 0.33%<br>2c > 1b > 1a | | 92 ft. 1.08%<br>2c > 1d > 1a > 1c ~ 2a > 1f |
| 123 | 120 ft. 0.26%<br>2c > > 1b > 1a > 2a ~ 1c | | 95 ft. 1.10%<br>1b ~ 1c ~ 2c > 1d ~ 1a |
| 124 | 43.5 ft. 0.44%<br>1a > 1b ~ 2c | | 125 ft. 1.11%<br>1c > 1b > 2c ~ 1f > 1d ~ 1a |
| 1600 N | | | |
| 140 | 39.3 ft. 0.19%<br>1b > 1e | | 91.9 ft. 1.11%<br>1c > 1a > > 1e |
| 1500 N | | | |
| 125 | 33 ft. 0.17%<br>1c ~ 1a ~ 1b | | 117 ft. 1.38%<br>1c > > 1a > 1e |
| 118 | 70 ft. 0.39% | | 114 ft. 2.19% |
| 105 | 80 ft. 0.63% | | 90 ft. 2.42% |
| 153 | 68.3 ft. 0.50%<br>1b > 1e > 2e > 2c | | 137.1 ft. 1.35%<br>1c > 1g ~ 1f ~ 1b > 2e ~ 1d |
| 1400 N | | | |
| 141 | 114.8 ft. 0.89%<br>2c > 1c ~ 1d > 1c > 1b | | 39.4 ft. 2.23%<br>1c > 1f ~ 1a > 1d |

| Section (drill hole) | Hangingwall % Oxide Cu (rock types) | Middle Division % Oxide Cu (rock types) | Footwall % Oxide Cu (rock types) |
|---|---|---|---|
| 1300 N | | | |
| 126 | 76 ft. 0.36%<br>1a > 1e ~ 1c > 1b | | 60 ft. 1.13%<br>1e > > 1c ~ 1a |
| 142 | 87.2 ft. 0.65%<br>1b > 1e > 1a ~ 1f | | 46.7 ft. 1.71%<br>1c > > 1e |
| 119 | 94.4 ft. 0.64% | | 69 ft. 1.26% |
| 152 | 54 ft. 0.78%<br>1b ~ 1g | | 95 ft. 1.66%<br>1f > 1g > 1e > 1c |
| 1200 N | | | |
| 127 | 70 ft. 0.60%<br>1c ~ 1a > 1f | | 83 ft. 1.90%<br>1a > 1c ~ 1f > 1e ~ 1g |
| 120 | 37.5 ft. 0.92% | | 98 ft. 1.57% |
| 110 | 65 ft. 0.74% | | 55 ft. 1.79% |
| 146 | 41.7 ft. 0.48%<br>1e > > 1g | | 127.6 ft. 1.17%<br>1e > 1g > > 2c |
| 1000 N | | | |
| 128 | 72 ft. 0.71%<br>1f > 1b > > 1c | | 57 ft. 1.16%<br>1c > > 1f |
| 129 | 60 ft. 0.86%<br>1g > 1f > 1b | | 67 ft. 1.06%<br>2c > 1c > 1f |
| 130 | 58 ft. 1.19%<br>1f > > 1g ~ 1c | | 46 ft. 1.59%<br>1c |
| 800 N | | | |
| 131 | 30 ft. 0.89%<br>1g > 1f > 1e | 40 ft. 1.18%<br>1c > 1d ~ 1e | 67 ft. 0.23%<br>1f > 1e ~ 1g ~ 1d |
| 132 | 20 ft. 0.79%<br>1f > 1g | 30 ft. 1.86%<br>1c > 1f > 1e | 30 ft. 0.54%<br>1f > > 1c |
| 133 | 10 ft. 0.83<br>1g | 38.5 ft. 1.20%<br>1c > 1d > 1a | 10.5 ft. 0.52%<br>1c ~ 1a |

| Section (drill hole) | Hangingwall % Oxide Cu (rock types) | Middle Division % Oxide Cu (rock types) | Footwall % Oxide Cu (rock types) |
|---|---|---|---|
| 145 | 48.4 ft. 0.51% 1g > > 1f | | 38.2 ft. 1.15% 1c > 1f ~ 1a |
| 106 | 20 ft. 0.50% | | 100 ft. 1.51% |

**Symbols:** > greater than, > > much greater than, ~ approximately equal to

This table shows that oxide copper grades are, by and large, enhanced in the footwall relative to the hangingwall divisions of the northern half of No. 1 Zone and that oxide copper grades tend to increase with depth, both within the footwall and hangingwall divisions. The table also demonstrates that while oxide copper grades show consistency along strike and down dip rock types do not. In fact oxide copper grades correlate neither with rock type, mafic mineral constituents nor with grain size.

Gold values are similar to oxide copper values in that they are higher in the footwall compared to the hangingwall portions of No. 1 Zone. Although higher gold values do occur preferentially in the footwall zone the highest gold content does not correlate with the highest oxide copper content and gold does not appear to increase in grade with depth. This lack of increase in gold values with depth suggests that the gold distribution reflects a primary distribution rather than a secondary distribution such as oxide copper values. As with oxide copper, gold content does not correlate with rock type, mafic constituents or grain size. The majority of the gold occurs in a higher grade zone between 1,700 N and 1,200 N. The weighted average of gold values in drill intercepts over the complete width of No. 1 Zone from 1,700 N to 1,200 N is 0.022 ounces gold per ton. Gold values in other drill intercepts across No. 1 Zone have weighted averages of 0.008 to 0.010 ounces gold per ton on a sectional basis.

If gold values reflect the distribution of primary mineralization then the primary orebody had a zonation of gold and probably a higher grade copper zone (bornite?) that zoned along strike to lower gold with lower copper grade (chalcopyrite?). This zonation would reflect the copper mineralogy observed in 1971 when the deeper sulphide portion of No. 1 Zone was drilled. Oxide copper does form a higher grade zone, between sections 1,700 N and 600 N, with an in situ reserve of 9.24 million tons grading 1.19% oxide copper (MPH Consulting Ltd., 1991).

Section 800 N marks the transition from the northern half to the southern half of No. 1 Zone. Similarly to the northern half of the zone copper mineralization in the southern half is not restricted to any rock type nor does it appear related to any particular mafic constituent or grain size. Unlike the northern half grades are not regularly distributed into a high grade footwall zone and a low grade hangingwall zone, but tend to form multiple zones or to be more evenly distributed across the zone. When copper grades form zones these zones do not continue down dip as consistently as in the northern half and oxide copper grades do not increase with depth as consistently as in the northern half.

The following table lists drill intercepts over the southern half of the zone with rock types. Oxide copper grades are not separated into zones but rock types associated with higher grades are listed.

| **Section (drill hole)** | **Oxide Copper %, Au opt. (rock types)** | **Higher oxide copper grade associated rock types** |
|---|---|---|
| 600 N | | |
| 134 | 87.5 ft - 1.22%, 0.006 opt.<br>2c > 1f > 1c ~ 1e | 1f > 1c |
| 135 | 60 ft. - 0.95%, 0.007 opt.<br>1c ~ 2c >> 1g | 1c > 2c |

| Section (drill hole) | Oxide Copper %, Au opt. (rock types) | Higher oxide copper grade associated rock types |
|---|---|---|
| 147 | 122.1 ft. - 1.29%, 0.010 opt.<br>1e > 1f > 1g ~ 1b | 1e > 1f |
| <u>400 N</u> | | |
| 136 | 105 ft. - 0.65%, 0.007 opt.<br>1g ~ 1f > 1e ~ 2c > 1c<br>(in three separate zones) | 1f > 1c |
| 137 | 64.5 ft. - 0.66%, 0.012 opt.<br>1e ~ 1f > 2c ~ 1c | 1e |
| 143 | 137.7 ft. - 0.94%, 0.009 opt.<br>1f > > 2c > 1c | 1f |
| 116 | 86 ft. - 0.55%, no assay | |
| <u>200 N</u> | | |
| 148 | 57.5 ft. - 1.11%, 0.012 opt.<br>1f > 1c > 1e > 2c | all |
| 149 | 70 ft. - 0.51%, 0.009 opt.<br>1f > > 1g | 1f |
| <u>0 N</u> | | |
| 150 | 137.7 ft. - 0.75%, 0.007 opt.<br>1f > 1g > > 2e | 1f > 2e |
| 103 | 70 ft. - 1.10%, 0.013 opt. | |
| 109 | 35 ft. - 0.69%, 0.01 opt. | |
| <u>200 S</u> | | |
| 154 | 37.2 ft. - 1.21%, 0.015 opt.<br>1c > > 1e | 1c, 1e |

**Symbols:** > greater than, > > much greater than, ~ approximately equal to

The oxide copper values shown on the above table demonstrate an apparent lack of oxide copper enrichment with depth and a lack of correlation of higher grades to rock type,

grain size or mafic constituent and demonstrate the lack of continuity of rock types on any section.

Trench exposures of the southern half, between 400 N and 100 N, average 195 to 200 feet true width but drill intercepts only average 65 to 70 feet true width. Between 0 N and 400 S trench exposures decrease from 150 feet true width to 90 feet true width. Drill intercepts on section 0 N indicate a sharp reduction in width at 200 feet below surface while intercepts on section 200 S indicate a fault termination of the zone approximately 160 feet below surface. The zone terminates immediately south of 400 S. This sharp termination combined with the apparent fault at 160 feet below surface on section 200 S, suggests an east striking fault that dips approximately 30°N and surfaces between trenches 91-8 and 91-13, cuts off the zone.

The southern half of No. 1 Zone is cut by a number of faults that disrupt the zone's continuity. At section 400N, an east striking magnetic lineament may be a fault that is the cause of both the abrupt narrowing of the zone between surface and drill hole 136 and the presence of three gneissic zones in hole 136. At section 0N, a forty foot shift in the hangingwall contact of the zone, over 20 feet of strike length, between exposures in the trench at section 0 N and trench 91-18 is most likely caused by an east-southeast striking fault extension of a fault exposed in trench 91-17 at 100 N. This fault or the postulated fault at the 400 N magnetic lineament may be the cause of the abrupt eastward bend in the zone at 200 N. At section 200 N, the zone is shifted 60 to 80 feet to the east, its dip shallows to about 60°E and its true width is only 55 feet. This shift cannot be explained by trench exposures or the geophysical survey but may be caused by an east striking fault. At section 400S, at the southern end of the zone, fragments of gneiss are exposed, in trench 91-8, adjacent to a series of northeast striking faults just east of the zone. While it is considered likely that an east-striking north-dipping fault cuts off the southern

end of No. 1 Zone it appears that northeast striking faults have displaced the southern continuation of No. 1 Zone and that at least part of this southern continuation is No. 4 Zone.

## 8. MINERALIZATION

The majority (86%) of the copper grade at the Williams Creek No. 1 Zone deposit is in the form of the secondary minerals malachite, cuprite, azurite and copper limonite (tenorite?) with very minor other secondary copper minerals (covellite, digenite, djurlite). Primary copper mineralization is restricted to bornite and chalcopyrite. Other secondary minerals include limonite, goethite, specular hematite and gypsum. Other primary minerals include magnetite, gold, molybdenite, native bismuth, bismuthinite, arsenopyrite pyrite, pyrrhotite and carbonate. Molybdenite, native bismuth, bismuthinite and arsenopyrite occur rarely.

Alteration minerals that could be considered strictly related to the mineralizing event rather than weathering or dyke intrusion are not recognizable. Epidotization and potassium feldspathization are obviously related to pegmatite dyke intrusion which is a post-mineralization event. Clay (montmorillonite type) and sericite development are clearly weathering products. Silica introduction, usually as narrow veinlets, is not common and may be related to aplite dyking or metasomatism. Chloritization of mafics, biotitization of hornblende, rare garnets, carbonate and possibly anhydrite all appear related to metasomatism and assimilation of precursor rocks to the gneissic units.

The upper 800 feet, approximately, of the No. 1 Zone is oxidized. Within the oxidized area pyrite is virtually absent and pyrrhotite is absent. Weathering has resulted in 1% to 3% pore spaces and a fair permeability. Secondary copper and iron minerals line and

in-fill cavities, form both irregular and colloform masses, fill fractures and rim sulphides. Primary sulphide minerals and magnetite are disseminated and form narrow massive bands or heavy disseminations in bands. Non-copper sulphides are not common in the weathered zone and are commonly intergrown or associated with each other when they do occur. They most commonly occur in hematite but also occur in copper sulphides and in the rock forming minerals. Gypsum forms uncommon microveinlets. Carbonate occurs as pervasive matter, irregular patches or microveinlets; not commonly, but on the order of 1% where present. Gold occurs as native grains, most commonly in cavities with limonite or in limonite adjacent to sulphides, but also in malachite, plagioclase, chlorite and quartz grains. Gold is rarely greater than 5 um in size.

Secondary copper mineralization does not appear to be preferential to a particular rock type. Copper mineralization forms high and low grade zones that are reasonably consistent both along strike and down dip and these zones transcend lithologic boundaries. In the northern half of No. 1 Zone the higher grades tend to form a footwall zone while lower grades form a hangingwall zone. South of about section 800 N the pattern is less well defined with more zoning within a section and wandering of these zones, across the width of the zone, from section to section. Oxide copper forms a higher grade zone between sections 1,700 N and 600 N while gold forms a higher grade zone between sections 1,700 N and 1,200 N.

The deposit below the zone of oxidation was drilled in 1971 and this core has not been examined by the author. Archer (1972) reported that primary mineralization comprised chalcopyrite, bornite, molybdenite, magnetite, pyrite and pyrrhotite. Copper mineralization appeared to be zoned from bornite on the north to chalcopyrite and finally to pyrite and pyrrhotite on the south. Narrow veinlets of anhydrite were found in the deepest drill hole.

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Carmacks map-area, Yukon Territory; in Report of Activities, Part A, Geological Survey of Canada, Paper 75-1A, p. 41-44.

## 10. Cost Statement

Contract Diamond Drilling:

Olympic Drilling Consulting Ltd. $66,817.50

| Diamond Drill Hole | Invoice No. | Cost |
|---|---|---|
| 121 | 010891 | $5,330.00 |
| 124 | 010891 | 11,603.00 |
| 134 | 030891 | 5,248.00 |
| 135 | 030891 | 6,478.00 |
| 138 | 030891 | 8,733.00 |
| 139 | 030891 | 5,186.50 |
| 143 | 030891 | 9,327.50 |
| 147 | 030891 & 020991 | 10,844.50 |
| 151 | 030991 & 020991 | 4,067.00 |
| | | $66,817.50 |

Expenditures on claim Boy 56-Y51154:

Drill holes 134, 135, 143 & 147 $31,898.0

Expenditures on claim Boy 85-Y51183:

Drill holes 121, 124, 138, 139 & 151 $34,919.50

## 11. Statement of Qualifications

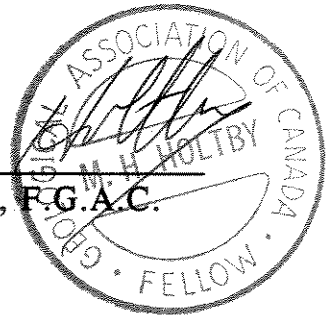
I, Max Holtby, residing at #8-9344 - 122 Street, Surrey, British Columbia hereby certify that:

1. I graduated from the University of British Columbia in 1972 with a B.Sc. in Honours Geology.

2. I am a Geological Association of Canada Fellow and Geological Society of Malaysia Member in good standing.

3. I have worked since 1971 as an exploration geologist and in mine management in Canada, U.S.A., Malaysia and Liberia, West Africa.

Max H. Holtby, F.G.A.C.



LEGEND

Upper Cretaceous

6. Carmacks Group – basic volcanics and feeder dykes

pre-Upper Cretaceous

5. Aplite dykes

4. Quartz veins

3. Pegmatite dykes

Upper Triassic

2. Granite Mountain Batholith

- 2a. coarse biotite granodiorite
- 2b. coarse hornblende granodiorite
- 2c. coarse to medium leucocratic granodiorite
- 2d. K-feldspar porphyritic granodiorite
- 2e. assimilated gneiss

Upper Triassic or older

1. Gneiss

- 1a. coarse-grained biotite dominant
- 1b. coarse-grained hornblende dominant
- 1c. medium-grained biotite dominant
- 1d. medium-grained hornblende dominant
- 1e. medium-grained feldspar-quartz dominant
- 1f. fine-grained biotite dominant
- 1g. fine-grained hornblende dominant
- 1h. >2cm augen
- 1i. <2cm augen

+ 144 Diamond Drill Hole

91-2 1991 Trench

1971/72 Trench

Magnetic Lineament (probable fault)

VLF Conductor (probable fault)

Fault – exposed in trench and extended along VLF conductor or magnetic lineament

Postulated Fault

2755 Elevation (feet)

C-3 VLF Conductors

093023

**Western Copper Holdings Limited / Thermal Exploration Company**

**Williams Creek Property**
**Yukon**

# GEOLOGY
## NO. 1 and NO. 4 ZONES

FT 0 100 200 300 400 FT

scale 1:1200

N.T.S. 115I/7

Figure 90-1

S.E.H.

GEOLOGICAL ASSOCIATION OF CANADA M. H. HOLBEK 1991

406 MAP# 115I/7

# APPENDIX 1

## DIAMOND DRILL HOLE LOGS WITH ASSAYS

International GeoSystems Corporation — GeoLog System — MAIN FORM — Geoform

# SYMBOLS & CODES

DEN 6B 02 02 W1002

PRJ WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

Upper Tier Geodata: %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP TE PY MT MO

## ROCK TYPE:

| Code | Description |
|---|---|
| 5 | APLITE |
| 4 | QUARTZ VEIN |
| 3 | PEGMATITE |
| 2 | GRANODIORITE |
| 2a | coarse biotite |
| 2b | " hornblende |
| 2c | " quartz-feldspar |
| 2d | " K-spar porphyry |
| 2e | assimilated gneiss |
| 1 | GNEISS |
| 1a | coarse biotite dominant |
| 1b | " hornblende " |
| 1c | medium biotite " |
| 1d | " hornblende " |
| 1e | " quartz-feldspar " |
| 1f | fine biotite " |
| 1g | " hornblende " |
| 1h | >2cm augen |
| 1i | <2cm augen |

## STRUCTURES, ETC.

| Code | Description |
|---|---|
| C/ | CONTACT |
| C/G | CONTACT GRADATIONAL |
| D/ | DYKE |
| F/ | FAULT |
| SH/ | shear |
| BRX | BRECCIA ZONE |
| F/W | FOOTWALL |
| H/W | HANGING WALL |
| OVB | OVERBURDEN |
| WTH | WEATHERED ZONE |
| B/ | BAND |
| V/ | VEIN |

## FRACTURES PER FOOT

L = 0° TO 30° TO CORE AXIS
M = 30° TO 60° TO CORE AXIS
S = 60° TO 90° TO CORE AXIS

## MODES

| Code | Description |
|---|---|
| 1 | D or P or E ≥ F or C |
| 2 | D or P or E > F or C |
| 3 | D or P or E < F or C |
| ~~A~~ | amygdoidal fillings |
| ~~B~~ | ~~blebs~~ |
| # | BRECCIA MATRIX |
| C | COATING |
| ✱ | CLASTS |
| D | DISSEMINATED |
| E | ENVELOPES |
| F | FRACTURE FILLINGS |
| G | GOUGE |
| H | PHENOCRYST REPLACEMENT |
| I | AUGEN or EYES |
| J | INTERSTITIAL |
| K | STOCKWORK |
| L | LAMINATIONS |
| M | MASSIVE |
| N | NODULES |
| O | SPOTS |
| P | PERVASIVE |
| Q | PATCHES |
| R | ROSETTES |
| S | SELVAGES |
| ~~S~~ | SHEETINGS |
| T | STAINS |
| U | EUHEDRAL |
| V | VEINS |
| > | MACRO VEINS |
| < | MICRO VEINS |
| W | BOXWORK |
| Ø | FRESH |

## %

| Symbol | Range |
|---|---|
| X | 100 % |
| 9 | 86 - 99 % |
| 8 | 76 - 85 % |
| 7 | 66 - 75 % |
| 6 | 56 - 65 % |
| 5 | 46 - 55 % |
| 4 | 36 - 45 % |
| 3 | 26 - 35 % |
| 2 | 16 - 25 % |
| 1 | 7 - 15 % |
| = | 4 - 6 % |
| + | 2 - 4 % |
| ) | 0.7 - 2 % |
| ✱ | 0.2 - .7 % |
| ( | 0.07 - .2 % |
| — | 0.02 - 0.07 % |
| • | TRACE or <0.02 % |
| O | absent |
| P | POSSIBLY PRESENT |
| / | PRESENT (NO %) |

International GeoSystems Corporation — Coring System — MAIN FORM — Geoform

SYMBOLS & CODES

FLAG: DEN 6802 — IDENTITY OF PROJECT (OR SUB-PROJECT) (UNIQUE): W1002

PRJ: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

MT/FT: FT

%REC = % RECOVERY / S/F, M/F, L/F FRACTURE COUNT PER FOOT / % RQD = % OF INTERVAL WITH CORE LENGTH OVER 4 INCHES

MINERALS & ALTERATION — (FIRST COLUMN / SECOND COLUMN) MODE %

| | |
|---|---|
| KF | K-FELDSPAR |
| LI | LIMONITE |
| HE | HEMATITE |
| BI | BIOTITE |
| SI | SILICA (QUARTZ) |
| CL | CHLORITE |
| EP | EPIDOTE |
| CA | CALCITE |
| HB | HORNBLENDE |
| MA | MALACHITE |
| AZ | AZURITE |
| BO | BORNITE |
| CP | CHALCOPYRITE |
| CC | CHALCOCITE |
| TE | TENORITE (COPPER LIMONITE) |
| PY | PYRITE |
| MT | MAGNETITE |
| MO | MOLYBDENITE |

Alpha Z = 5 = Alpha 5 — Y = 4 = Alpha 4 — X = 3 = Alpha 3 — W = 2 = Two — V = 1 = One — U = 0 = Zero — T = Ø = Alpha O — S = 7 = Seven

International Geosyst ms Corporation  Geolo ystem  MA FORM  Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| Identity Data | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILLHOLE PRE-FIX | TRAVERSE TYPE | TRAVERSE NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | GEOLOGGED MM | GEOLOGGED DD | BY | ASST BY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEN | 6 B 0 2 0 2 | | W1002 | 121-91 | | | HQ | | | | MPP | | | | OLYMPIC | 91 | 08 | 08 | 08 | 08 | | | | | 01 | 06 |
| | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| Survey Data | TURN to PT 000 = Collar | FROM Metric Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM COLLARING FROM TRUE | V-ANG NEG IF DOWN | HASH TOTAL (+ = I + ID + AZM + V-ANG + N + E + EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IF SOUTH | EASTING NEG IF WEST | ELEVATION NEG IF SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | FT | 260. | 247. | -50. | | 1900.3 | -48.2 | 2848.2 |

| Upper Tier Geodata | FLAG | RECOVERY Tmod Mo | ROCK TYPE | TYPIFYING MINS TM1 TM2 | QAL/MAT QM1 | TEXTURES TX1 TX2 | GRAIN FI CO CE MP | FRACTURE COUNT 1 2 | Int Typ | Tr | STRUCT ID | STRIKE AZM | DIP Tn Angle | DZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY CB MG XX PY | CP | GL | YY | SUMMARY Fe Al | Mn 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL | Unit of Recov F T 1 2 | %REC | | | FOLIATION | | S/F M/F | | | | | | KF | LI | HE BI MA AZ | BO | CP | CC | | |

| Lower Tier Geodata | FLAG | Mar F | ROD Unit of ROD | ACE Form | ENV | RTO | Colour | TM1 | QM1 | TX1 | TX2 | Sil | Ru | Sh | OC | Is | Ie | K | U | Int Typ | Tr | STRUCT ID | AZM | DIP Tn Angle | KF | MU | C1 | EP | HE | Hw Amt | PR | MO | SL | Hw Amt | How 2 | How 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL | | %ROD | | | | | | | | | | | | | L/F | | | | | | | | | SI | CL | EP | CR | | TE | PY | MT | MO | | | |

GRAPHIC

| A | FROM | TO | SAMPLE NO. | INT. | RECOVERY | ROCK TYPE | FRACTURE | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | 0 | 500 | 100 | | | | | | | | | |
| P | 500 | 1000 | | | 2c | 60° | 1.0 0.6 0.6 | | | | | |
| P | 1000 | 2000 | | | 2c | 60° | 1.1 0.9 0.3 | | | | | |
| D | 2000 | 3000 | | | 2c | 55° | 1.1 0.6 0.2 | | | | CK / | |
| R | | | FOOP TO 5cm AVERAGE 60° A SHEARS, 1%-TO 20cm UNIT 2e | | | | | | | | | |
| P | 3000 | 4000 | | | 2c | 50° | 1.7 0.5 0.2 | | | | CK / | D/ |
| R | | | FAIR TO REGOLITH CRACKS INCREASING TOWARDS DYKE, 1-20 cm BAND UNIT 2e | | | | | D/ | | 20 | | |
| N1 | 3920 | 4000 | | 3 | | | | | | | | |
| P | 4000 | 5000 | | | 2c | 50° | 1.0 1.0 0 | | | | C. PC / | D/ |
| N | 4680 | 4690 | | 3 | | | | D/ | | 30° | | |
| R | | | XCUTS FOLIATION | | | | | | | | | |
| P | 5000 | 6000 | | | 2c | 65° | 1.3 0.8 0.1 | | | | PC C4 | D/ |
| N | 5290 | 5500 | | 2d | | 60° | | | | | PC | |
| R | | | UNIT 3 FLOODING UNIT 2b TO PRODUCE ROCK WAVY ING FROM UNIT 2d TO | | | | | | | | | |
| R | | | UNIT 2d: STRONG FOLIATION IMPARTED BY PEG FLOODING; | | | | | | | | | |
| N2 | 5525 | 5550 | | X3 | | | | D/ | | +50° | | |
| N3 | 570 | 5701 | | X3 | | | | D/ | | +50 | | |

Z = Alpha Z
I or J = Alpha I
Ø = Alpha O
7 = Seven
2 = Two
1 = One
0 = Zero
5 = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity of Project | ID of Drillhole | Size of Core | Page | Of |
|---|---|---|---|---|
| W1002 | 21-91 | HQ | 02 | 06 |

**WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

Units: FT; %REC; %RQD; ROCK TYPE; FOLIATION; S/F M/F; L/F

Upper tier geodata: KF, LI, HE, BI, MA, AZ, BO, CP, CC
Lower tier geodata: SI, CL, EP, CA, TE, PY, MT, MO

| Key | Flag | From | To | Sample No. / Remarks | Rock Type | Foliation | Fracture | Struct | Dip | Alteration & Mineralization |
|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 60.00 | 70.00 | | 2c | 50° | 25 0.6 | | | P = C.K. ; D/ |
| L | | | | | | | 0.5 | | | |
| R | | | | 60.29 - 64.3 FT - STRONG FRACTURES - WEATHERED SOFTEN COATING CA KARC | | | | | | |
| R | | | | < 1% < 2CM ALLS UNIT 2c | | | | | | |
| / | P | 70.00 | 71.50 | | 2c | 60° | 25 0.6 | | | D/ ; P. C- |
| L | | | | | | | 0 | | | |
| R | | | | | | | | | | |
| / | N1 | 71.00 | 71.50 | 3 | 1f | | | | | 0 0 0 0 0 ; 0 0 0 0 0 0 0 |
| L | | | | | | | | | | |
| R | | | | LENSES TO 20CM UNIT 1f; | | | | | | |
| / | N2 | 71.50 | 75.00 | | 1f | 40 | | C/ ; C/ | 30° ; 40° | P9 0 0 0 0 0 ; 0 0 0 0 0 |
| L | | | | | | | | | | |
| R | | | | CONTACTS SHARP; BARREN OF MINERALIZATION; IN PLACES LOOKS LIKE | | | | | | |
| | | | | CATACLASTIC STRUCTURE; HYPOGENE; WEAK SUPERGENE CY ON FRACTURES, | | | | | | |
| / | N2 | 75.00 | 80.00 | | 2d | 50° | 0.6 1.6 | | | P. ; / |
| L | | | | | | | 1.5 | | | |
| R | | | | UPPER CONTACT TRANSITIONAL START ABOUT 70 FT; | | | | | | |
| / | P | 80.0 | 90.00 | | 2d | 45° | 0.9 1.1 | | | P. ; D/ |
| L | | | | | | | 0.3 | | | |
| / | N | 81.5 | 89.00 | X | 2c | | | | | |
| L | | | | | | | | | | |
| R | | | | CONTACTS TRANSITIONAL, 85.7 - 86.2 - UNIT 1g - LIGHT COLORED | | | | | | |
| / | P | 90.00 | 100.00 | | 2d | 60° | 0.8 1.8 | | | P. C- ; D/ |
| L | | | | | | | 0.6 | | | |
| R | | | | 95 FT - 2CM UNIT | | | | D/ | 20° | |
| / | N1 | 94.90 | 95.00 | X | 3 | | | | | |
| R | | | | D/ - XCUT FOLIATION; WEAK SUP ALT ON FRACTURES - CY & MINOR CA | | | | | | |
| R | | | | OCC. PRESENT | | | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity Data | FLAG | Format Version | Spec | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|---|---|
| D E N | | 6 8 0 2 | 0 2 | W1002 | 1 21 - 91 | 03 | 06 |

**P R J:** WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI — MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP CA — TE PY MT MO

| Key | Flag | From | To | Sample No. / Int. | Rock Type | Foliation | S/F M/F – L/F | Struc | Dip | Alteration | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 100.00 | 110.00 | | 2d | 55° | 1.3 1.0 | | | | |
| L | | | | | | | 03 | | | P – C – | D/ |
| R | KF PHENOCRYSTS - POIKOLITIC - USUALLY ALONG FOLIATION PHENOCRYSTS | | | | | | | | | | |
| R | UP TO 35MM | | | | | | | | | | |
| / | N1 | 106.30 | 110.00 | X | 2c | | | | | | |
| R | UPPER CONTACT TRANSITIONAL; | | | | | | | | | | |
| / | P | 110.00 | 120.00 | | 2c | 55° | 1.1 1.6 | | | | |
| L | | | | | | | 6 | | | P – C – | D/ |
| R | | | | | | | | | | | |
| / | N1 | 113.00 | 114.00 | | 3 | | | D/ | 25 | | |
| / | N2 | 114.00 | 114.90 | | 2d | | | | | | |
| R | WEAK KF PHENOCRYSTS; | | | | | | | | | | |
| / | N3 | 114.90 | 115.00 | | | | | D/ | 20° | | |
| R | XCUTS FOLIATION | | | | | | | | | | |
| / | P | 120.00 | 130.00 | | 2c | 45° | 07 2.1 | | | | |
| L | | | | | | | 03 | | | P. | D/ |
| R | SPHENE; - GREENISH WEDGE SHAPED CRYSTALS - 1%; - SEEN SINCE START OF | | | | | | | | | | |
| R | HOLE; FRACTURE ± 60 MOST COMMON; 127.5 - 35° WEAK SHEAR | | | | | | | | | | |
| / | N1 | 120.45 | 120.60 | | 3 | | | D/ | 60° | | |
| R | XCUT FOLIATION; | | | | | | | | | | |
| / | N2 | 123.40 | 124.60 | | 9 3 | | | D/ | 60° | | |
| R | UPPER CONTACT - IRREGULAR TO 60°; | | | | | | | | | | |
| / | P | 130.00 | 140.00 | | 2c | | 1.6 0.5 | FO | 50° | | |
| L | | | | | | | 02 | | | P. C. | D/ |
| R | PATCHES 1-2FT WITH TO 7MM BLEB FAIRLY STRONG & IMPART STRONG | | | | | | | | | | |
| R | FOLIATION TO ROCK - TO 137.5 FT | | | | | | | | | | |
| / | P | 140.00 | 150.00 | | 2c | | 08 1.1 | FO | 50° | C – | |
| L | | | | | | | 03 | FZ | 55° | P – C – | |
| R | 140.30 - 141.5 - FAULT ZONE - MAIN BREAK - 141.3 - 141.5 - BRECCIA - FINE ANGULAR | | | | | | | | | | |
| | CLASTS < 5MM IN RED CLAY MATRIX; MODERATE FAULT | | | | | | | | | | |
| / | N | 144.7 | 150.00 | X | 2d | | | | | | |
| R | LATH - SQUARE PHENOCRYSTS UP TO 40MM AVERAGE 10 - 20MM | | | | | | | | | | |

**Identity Data**

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT | ID of DRILLHOLE | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | D E N | 6 B 0 2 | 0 2 | W1002 | 121-91 | 04 | 06 |
| I | P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | WILLIAMS CREEK | | |

**Survey Data:** MT/FT: FT

**Upper Tier Geodata:** %REC, ROCK TYPE, FOLIATION, S/F, M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

**Lower Tier Geodata:** %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO

| Key | Flag | From | To | Remarks / Sample | Rock type | Fracture count | Struc | Dip | Alteration & mineralization |
|---|---|---|---|---|---|---|---|---|---|
| R | | | | 146.0-149.0-FRACTURE PARALLEL CORE AXIS-CA & HE FAIRLY COMMON; | | | | | |
| / | P | 15000 | 16000 | | 2d | 1.7 0.9 | FO | 50 | C· |
| L | | | | | | 0 | | | / P- C- D/ |
| / | P | 16000 | 17000 | | 2d | 0.8 1.7 | FO | 50° | C- D/ |
| L | | | | | | 0.4 | | | / P· C- |
| R | | | | | | | | | |
| / | N | 16520 | 16540 | | 3 | | D/ | 35° | |
| R | | | | DYKE XCUTS FOLIATION; | | | | | |
| R | | | | FAULT-ZONE: 165.7-171.19: 165.7-169.0-SHEARS TO 15MM WITH HE IN SHEAR | | | | | |
| R | | | | & ENVELOPE; MAIN BREAK FAULT 169.0-171.19=~30% BANDS-PALE GREEN, V.FINE | | | | | |
| R | | | | BRECCIA-MAFICS ABSENT; MOD HARD (SI?) TO SOFT, BANDS 1CM-0.5FT WIDE | | | | | |
| R | | | | AVERAGE 45°, HE-ENVELOPE TO PERVASIVE STRONG; STRONG FAULT; | | | | | |
| | | | | FAULT XCUT FOLIATION?; | | | | | |
| / | P | 17000 | 18000 | | 2d | 2.4 1.5 | FO | 50 | EC |
| L | | | | | | 0 | | | / P· C- D/ |
| R | | | | 170.0-175.0-STRONG FRACTURES AT TOP, DECREASING DOWNSECTION; FRACT- | | | | | |
| R | | | | URES WEAK SHEAR WITH CY, CA & CRUSHED ALTERED ROCK. | | | | | |
| / | P | 18000 | 19000 | | 2d | 1.2 0.9 | FO | 40 | 0 |
| L | | | | | | 0.4 | | | A/ P· C- D/ |
| / | P | 19000 | 20000 | | 2d | 1.2 1.0 | FO | 60 | 0 |
| L | | | | | | 0.9 | | | Q/ P· C- D/ |
| R | | | | K-SPAR FAIR-WEAK & QZ-BLEB MOD-STRONG, TOWARDS LOWER CONTACT | | | | | |
| | | | | DECREASING KF PHENOCRYSTS; | | | | | |
| / | P | 20000 | 21000 | | 2a | 0.6 0.5 | FO | 40° | |
| L | | | | | | 0.7 | | | / P· C- D/ |
| R | | | | UPPER CONTACT TRANSITIONAL | | | | | |
| R | | | | | | | | | |
| / | N | 2036 | 26200 | | | | FZ | 20° | |
| L | | | | | | | | | P8 0 0 / |
| R | | | | FIVE-5-15MM PALE-MED GREEN SHEAR-BRECCIAS-MOD SI WITH WALLROCK | | | | | |
| | | | | ENVELOPE-PERVASIVE FX TO PINK COLOR & MAFICS TO CHLORITE | | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Field | Value |
|---|---|
| Identity Data | D E N 6 8 0 2 0 2 |
| Identity of Project | W1002 |
| ID of Drillhole | 121-91 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Drilling by | WILLIAMS CREEK |
| Page | 05 of 06 |
| MT/FT | FT |

Upper Tier Geodata: Unit of Recov. F T 4 2 — %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP CA TE PY MT MO

A: FROM — TO — SAMPLE NO. — INT.

| Key | Flag | From | To | Notes | Rock | Fracture | Struct | Dip | Alteration |
|---|---|---|---|---|---|---|---|---|---|
| / | P | 21000 | 22000 | | 2c | 07 10 | FO | 50° | |
| L | | | | | | 01 | | | |
| R | | | | 2145-10° CORE AXIS, TO 5MM PALE GREEN SHEAR-MOD SOFT FILLING & | | | | | |
| R | | | | TO 20MM ENVELOPE - FX ALT PINK & HB TO CL+CA; 2198-2201-UNIT 2c. | | | | | |
| / | P | 22000 | 23000 | | 2c | 0405 | FO | 60° | C- |
| L | | | | | | 03 | | | P/ P·C- D/ |
| R | | | | WEAK FRACTURES | | | | | |
| / | N1 | 22220 | 22500 | | 2b | | C/ | 60° | |
| L | | | | | | | | | |
| R | | | | UPPER CONTACT SHARP LOWER CONTACT TRANSITIONAL OVER ± 1FT. | | | | | |
| R | | | | 223.4-0.1FT UNIT 3, XCUTS FOLIATION; | | | | | |
| / | P | 23000 | 24000 | | 2c | 0302 | FO | 45° | O |
| L | | | | | | 01 | | | P/ P·C· D/ |
| D | | | | | | | | | |
| / | P | 24000 | 25000 | | 2c | 0806 | FO | 45° | C- |
| L | | | | | | 01 | | | P· D/ |
| R | | | | 2457-10MM SHEAR-20° | | | | | |
| / | N1 | 241.0 | 24210 | X | 2b | | | | |
| / | | | | PROMINENT FX PHENOCRYSTS TO 3CM UPPER CNT TRANSITIONAL | | | | | |
| / | N2 | 24210 | 24270 | X | 2c? | | | | |
| | | | | UNIT 2c?-LEUCOCRATIC, FINE GRAINED, 5% MAFICS; UPPER CONTACT | | | | | |
| | | | | SHARP-40°; LOWER CONTACT 5MM SHEAR WITH HE & ALTERED ROCK | | | | | |
| / | N3 | 24730 | 24890 | | 93 | | C/ | 35° | |
| R | | | | CONTACTS-IRREGULAR TO 35° | | | | | |
| / | P | 25000 | 26000 | | 2c | 0203 | | | F- |
| L | | | | | | 09 | | | P·C- / |
| R | | | | | | | | | |
| N | | 25000 | 25360 | X | 2b | | FZ | 45° | |
| / | | | | | | | | | |
| R | | | | PINK ALTERATION THROUGHOUT. AT UPPER CONTACT 45° 10MM GREEN SHEAR | | | | | |

Z = Alpha Z — I or i = Alpha I — Ø = Alpha O — 7 = Seven — 2 = Two — 1 = One — 0 = Zero — S = Alpha S

International Geosyst ms Corporation — Geolog ystem — MA FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID or DRILLHOLE PRE-FIX | TRAVERSE TYPE | TRAVERSE NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | GEOLOGGED MM | GEOLOGGED DD | BY | ASST BY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | 121-91 | | | | | | | | | | | | | | | | | | | | 06 | 06 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| S | FLAG | TURN G.P. 000 = Collar | FROM Marks Loc. of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM (CORRVD FROM TRUE N) | V-ANG | NEG/P DOWN | HASH TOTAL (NOT INCLUDING ANY BLANK FIELDS) | NEG/P SOUTH | NORTHING | NEG/P WEST | EASTING | NEG/P SUB-SEA | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | NAM SCL | | | | FT | | | | | | | | | | | |

| L | FLAG | Alt or F | RECOVERY | T MOD | Attr | ROCK TYPE | TYPE/TEX MIN1 | TYP/TEX MIN2 | QAL/MAT QM1 | TEXTURES TX1 | TX2 | GRAIN GR | C | MP | FRACTURE COUNT | FM | TY | STRUC1 ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CR | MG | XX | PY | CP | GL | YY | SUMMARY FA | AA | MS | I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM SCL | Unit of F | %REC | | | | | | | FOLIATION | | | | | S/F | M/F | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | | |

| L | FLAG | Alt or F | ROD | Alt Form | ENV | RTG | Comp | TM1 | QM2 | TX1 | TX2 | Sz | Rn | Sh | % C | R | Im | S | Ir | TY | STRUC2 ID | AZM | DIP To Right | XF | MO | CL | EP | NE | Hw Amt | PR | MO | SL | Hw Amt | How2 | How1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM SCL | Unit of ROD | %ROD | | | | | | | | | | | | | L | F | | | | | | | SI | | CL | EP | | | TE | PY | MT | MO | | | |

| A | AHF | FROM | TO | SAMPLE NO. | INT. | RECOVERY | Alpha serial no. | A1 From | A1 To | A2 From | A2 To | A3 From | A3 To | A4 From | A4 To | A5 From | A5 To | A6 From | A6 To | A7 From | A7 To | A8 From | A8 To | A9 From | A9 To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | AHF | Any Zone Flag or Flag = COMposite, MAX or MIN or 001 – 999 | | | | | | | | | | | | | | | | | | | | | | | | |
| A | AHF | If Flag = 0 or 1, FROM = TO; if Flag = 2 or 3, any no. 01-99 as defined | | | | | | | | | | | | | | | | | | | | | | | | |

R 2507-02 FT 2° SHEAR - BRECCIA CLASTS TO 10 MM IN CRUSHED HOST ROCK MATRIX

RB 2530-02 FT SHEAR - BRECCIA - 25° PARALLEL FOLIATION; THICKNESS OUT 1-2 MM

RB 1-2 MM = FAULT; DISCRETE SHEAR 2 MM WIDE;

/N 2535 2560 0 1g C/ 35° 10

LR FO 40° P- 0

R FINE & MEDIUM GRAINED DIORITE HB GNEISS; NO SOUP; INCL. GREEN

2552-01 FT 35° SHEAR UP PART GREENISH COLOR WITH DARK ALTERATION

ENVELOPE

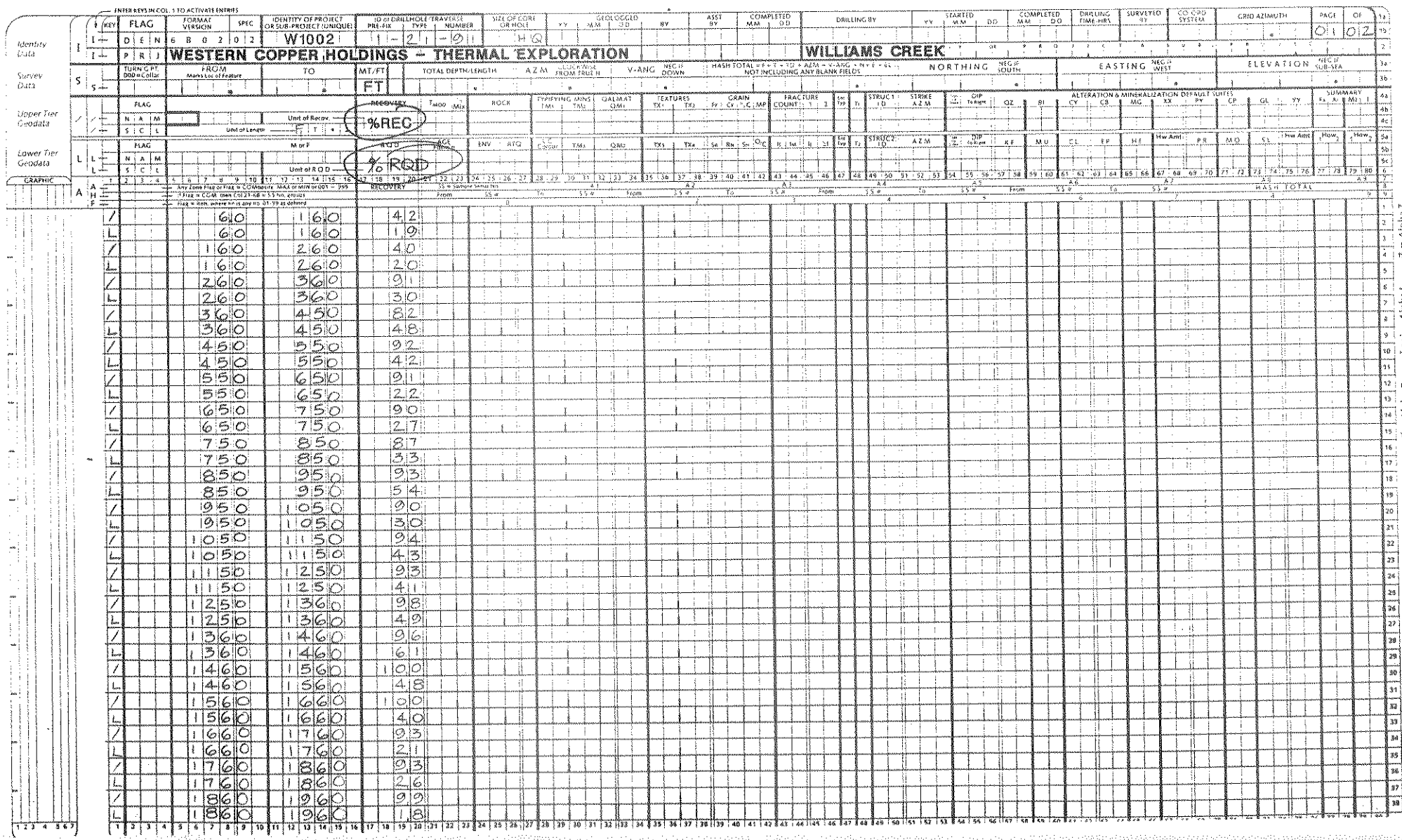
/N 2560 2600 2g

KEND 2600

Identity Data — Survey Data — Upper Tier Geodata — Lower Tier Geodata — GRAPHIC

1 = One 2 = Two 7 = Seven 0 = Zero S = Alpha S Ø = Alpha O I or L = Alpha I Z = Alpha Z

International Geosys ms Corporation  Geolo ystem  RECOVI Y FORM  Geoform



International Geosys ns Corporation — Geolo ystem — RECOVI Y FORM — Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|
| DEN | 6802 | 02 | W1002 | 1 | 21 | 91 | HQ | 02 | 02 |

| PRJ | Project | Drilling |
|---|---|---|
| PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK |

MT/FT: FT

Upper Tier Geodata — RECOVERY: %REC

Lower Tier Geodata — RQD: %RQD

| KEY | FROM | TO | RECOVERY / RQD |
|---|---|---|---|
| / | 1960 | 2060 | 93 |
| L | 1960 | 2060 | 53 |
| / | 2060 | 2160 | 96 |
| L | 2060 | 2160 | 71 |
| / | 2160 | 2260 | 99 |
| L | 2160 | 2260 | 70 |
| / | 2260 | 2360 | 100 |
| L | 2260 | 2360 | 84 |
| / | 2360 | 2460 | 98 |
| L | 2360 | 2460 | 77 |
| / | 2460 | 2560 | 99 |
| L | 2460 | 2560 | 85 |
| / | 2560 | 2600 | 73 |
| L | 2560 | 2600 | 50 |

International Geosy: ms Corporation — Geolc System — SAM E FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

**Identity Data**

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 1 | -2 | 1-91 | HQ | OLYMPIC | 91 08 08 | 08 08 | GRID | 337. | 01 | 01 |

| KEY | FLAG | | |
|---|---|---|---|
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | WILLIAMS CREEK |

**Survey Data**

| KEY | TURN G PT. 000 = Collar | FROM | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IF DOWN | HASH TOTAL | NORTHING NEG IF SOUTH | EASTING NEG IF WEST | ELEVATION NEG IF SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 | | | FT | 260.0 | 247. | -50. | | | | |

Upper Tier Geodata: FLAG NAM / SCL; Unit of Recov.; Unit of Length; RECOVERY; T MOD MIX; ROCK; TYPIFYING MINS TM1 TM2; GALMAT OM1; TEXTURES TX1 TX2; GRAIN; FRACTURE COUNT 1 2; STRUC 1 TO; STRIKE AZM; DIP; ALTERATION & MINERALIZATION DEFAULT SUITES QZ BI CY CB MG XX PY CP CL YY; SUMMARY

Lower Tier Geodata: FLAG NAM / SCL; M or F; Unit of RQD; RQD; AGE Form n; ENV; RTQ; CC Colour; TM3; OM2; TX3 TX4; STRUC2 TO; AZM; DIP; KS MU CL EP HE PR MO SL

Cu% Cu nsul % Au oz/T Ag oz/T

Any Zone Flag or Flag = COMPosite, MAX or MIN or 001 – 999; If Flag … of 21-68 = SS No. group; Flag … any no. 01-99 as defined

| KEY | FLAG | FROM | TO | SAMPLE NO. | INT. | | | Cu% | Cu nsul % | Au oz/T | Ag oz/T |
|---|---|---|---|---|---|---|---|---|---|---|---|
| K | H/W | | | | | | | | | | |
| S | | 255 | | | | 239 | -47 | | | | |
| K | F/W | | | | | | | | | | |
| A | SAM | 71.5 | 75.0 | T15798 | 3.5 | | | 0.06 | 0.04 | <0.002 | 0.01 |
| | | 75.0 | 80.0 | T15799 | 5.0 | | | <0.01 | <0.01 | <0.002 | <0.01 |

Z = Alpha Z
1 or I = Alpha I
Ø = Alpha O
7 = Seven
2 = Two
1 = One
0 = Zero
5 = Alpha S

International Geosystems Corporation — Geologging System — MAIN FORM — Geoform

Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata

| | |
|---|---|
| Identity Data | DEN 6802 — W1002 — 124-91 — HQ91 — MPP/T — OLYMPIC 91/08/10 08/11 — GRID 337. — 1/21 |
| | PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK |
| Survey Data | FT — 563.0 — 247. — -50. — 1707.7 — 342.3 — 2827.9 |

| FROM | TO | RECOVERY | ROCK TYPE | TEXTURES | GRAIN | STRUCTURE | STRUCT 2 | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|
| | | %REC | | FOLIATION | | S/F M/F | | KF LI | HE BI | MA AZ | BO CP CC | |
| | | %RQD | | | | L/F | | SI CL | EP | TE PY | MT MO | |

SAMPLE NO. INT.

| FROM | TO | |
|---|---|---|
| 00 | 06 | CASING |
| 06 | 10 | HIGHLY BROKEN CORE IN UNITS 2C AND 5 |
| | | ≈ 40% - 60% RESPECTIVELY. HE STAINED FRACTURES. |
| /PG1 10 | 20 | X 2C 0.2 0.5 F* |
| C | | 0.8 . |
| R | | PORPHYRITIC UNIT WITH WHITE ORTHOCLASE/PLAG PHENOCRYSTS |
| | | NARROW (<5mm) FRACTURES WITH HE STAINING. MINOR CALCITE/CLAY |
| | | AND ZEOLITES IN FRACTURES. PHENOS ≈3-5% OF UNIT |
| /NG1 17.5 | 18.2 | 3 $1050° |
| R | | COARSE GR KF DOMINANT UNIT |
| /PG1 20 | 30 | X 2C 0.5 0.4 F) F* |
| C | | 0.3 F* F* |
| R | | INTERVAL DOMINATED BY FRACTURES SUBPARALLEL TO CORE AXIS |
| | | FRACTURES 3.8' IN LENGTH, MOD HE STAINING |
| / 20.0 | 20.7 | SH010° |
| / 21.2 | 21.7 | SH020° |
| /NG1 24.9 | 25.1 | 3 $1060° |
| | | WHITE ORTHOCLASE/PLAG DOMINANT UNIT |
| / 28.0 | 29.3 | SH020° |
| /PG1 30 | 40 | 2C F+ FC |
| C | | F- F+ |
| R | | PORPHYRITIC UNIT AS ABOVE. KF/EP FOW |
| | | FRACTURES |
| /NG1 36 | 37 | ZONES OF MOD KF/EP ALTERATION, ≈ 30-40% ALTERATION |
| 39.5 | 40 | AS ABOVE |
| /PG1 40 | 50 | 2C 0.8 1.0 |
| C | | 0.3 |
| R | | UNIT AS ABOVE WITH LOW ANGLE FRACTURES |

Alpha Z = Z; Alpha I = I; Alpha O = Ø; Seven = 7; Two = 2; One = 1; Zero = 0; Alpha S = S

International Geosystems Corporation — Geological System — MAIN FORM — Geoform

Identifier Data: PROJECT: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION; WILLIAMS CREEK; W1002; 1/24-91; PAGE 2 OF 21

Survey Data: FROM / TO / MT/FT: FT

| FROM | TO | SAMPLE NO. | INT. | ROCK TYPE | RECOVERY / RQD | STRUCTURE / TEXTURE / GRAIN | FRACTURE COUNT | ALTERATION & MINERALIZATION | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|
| /NG/ 40. | 40.5 | CONTINUATION OF ZONE FROM | 39.5 – 40.0 | | | | | | |
| /NG/ 46.9 | 49.2 | HIGHLY FRACTURED INTERVAL. ROCK FRAGMENTS OF KF/EP ALTERED 2c ORIENTATION NOT POSSIBLE. | | | | | | | |
| /PG/ 50 | 60 | 2c | 0.7 0.5 | | | F= D* | E* F= | | |
| R | | PORPHYRITIC 2c UNIT CONTINUES. | | | | | | | |
| /NG/ 520 | 527 | 3 | | | | V 10 45° | | | |
| R | | EP ALTERED COARSE GR. KF DOMINANT UNIT | | | | | | | |
| /NG/ 58 | 60 | 2c | | | | F. | F. | | |
| L | | 3 | | | | | F. | | |
| R | | 2c UNIT WITH PATCHES OF 5, POSSIBLE APLITE $1 | | | | | | | |
| | | ≈ 30% 15 UNIT, 60% FINE GR. MAFIC RICH UNIT (1g?) CONTACTS | | | | | | | |
| | | IRREGULAR AND GRADATIONAL | | | | | | | |
| /NG/ 57 | 58 | 2c | | | | | | | |
| R | | 2c UNIT ≈ 1' ABOVE CONTACT HAS KF PHENOS (3%) AND Hb CLOTS (10%) | | | | | | | |
| /NG/ 58.6 | 58.7 | 3 | | | | | | | |
| R | | MED TO COARSE GR. KF DOMINANT UNIT | | | | | | | |
| /PG/ 60 | 70 | 2c | 0.6 0.6 0.3 | | | F. | F. F. | | |
| R | | PORPHYRITIC UNIT WITH WHITE PHENOS | | | | | | | |
| /NG/ 60 | 61.5 | 2c | | | | | | | |
| | | CONTINUATION OF 2c WITH VOLCANIC (1g) MATERIAL (58–60') | | | | | | | |
| /NG/ 63.5 | 63.7 | 3 | | | | $1 040° | | | |
| R | | KF DOMINANT UNIT | | | | | | | |
| /PG/ 70 | 80 | 2c | 0.9 0.5 0.2 | | | F* | F. F* | | |
| R | | CONTINUATION OF 2c UNIT | | | | | | | |

1 = One 2 = Two 3 = Seven 4 = Alpha A 5 = Alpha S 6 = Alpha G 7 = Alpha Z

81-130

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: DEN 6802 02 — W1002 — 124-91 — PRJ WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK — PAGE 32

Survey Data

Upper Tier Geodata

Lower Tier Geodata

| FROM | TO | MT/FT | RECOVERY %REC | RQD %RQD | ROCK TYPE | FOLIATION | FRACTURE COUNT / TYPE | STRUCT 1 ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION | SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70.1 | 70.2 | | | | 3 | ORTHOCLASE/PLAG DOMINANT | | | $1 050 | ° | | | |
| 72.6 | 73.0 | | | | 3 | ORTHO/PLAG DOMINANT | | | $1 090 | ° | | | |
| 74.2 | 74.25 | | | | 3 | KF DOMINANT | | | $1 060 | ° | | | |
| 74.8 | 74.9 | | | | 3 | KF DOMINANT | | | $1 080 | ° | | | |
| 77.8 | 78.9 | | | | 3 | KF DOMINANT | | | $1 055 | ° | | | |
| 79.6 | 79.7 | | | | 3 | ORTHO/PLAG DOMINANT | | | $1 030 | ° | | | |
| 80 | 90 | | | | 2c | | | | | | | | |
| | | | | | | | | | | 3 | F. | | |
| | | | UNIT HAS REFW QTZ FLOODED, CLOTS OF MED | | | | | | | | | | |
| | | | TO COARSE GR HB ≈ 5% OF UNIT, POSS BLK $1 OF 5 PARALLEL TO CORE | | | | | | | | | | |
| 83.1 | 84.0 | | | | 2c | | | | | | | | |
| | | | | | 5 | | | | | | | | |
| | | | IRREGULAR $1 OF APLITE | | | | | | | | | | |
| | | | FINE GR, MAFIC RICH (≈30-40%) UNIT CONTACTS GRADUAL | | | | | | | | | | |
| 86.7 | 87.6 | | | | 2c | | | | | | | | |
| | | | | | 1g | | | | | | | | |
| | | | ZONE CONTAINS $1 WITH HIGH MAFIC CONTENT AS ABOVE (58-60') | | | | | | | | | | |
| 89.2 | 89.9 | | | | 3 | | | | $1 095 | ° | | | |
| | | | COARSE GR. KF DOMINANT UNIT | | | | | | | | | | |
| 90 | 100 | | | | 2c | | 0804 | | | | F* | F* | |
| | | | | | | | 01 | | | | | F. | |
| | | | 2c UNIT AS ABOVE WITH LOW ANGLE HE STAINED FRACTURES | | | | ANGLE | | | | | | |
| 96.1 | 96.3 | | | | 3 | KF DOMINANT | | | $1 025 | ° | | | |
| 98.2 | 98.4 | | | | 3 | KF DOMINANT | | | $1 030 | ° | | | |
| 100 | 110 | | | | 8 | 2c | 0608 | | | | F. | F. | |
| | | | | | 2 | 3 | 01 | | | | | | |
| | | | TYPICAL UPPER UNIT WITH HE STAINING AND ZERO CLEAR CAL FRACTURES | | | | | | | | | | |

0 = Zero 1 = One 2 = Two 3 = Seven 4 = Alpha 0 5 = Alpha 1 6 = Alpha 2 7 = Alpha 3

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT | ID of DRILLHOLE | PAGE | OF |
|---|---|---|---|---|---|---|
| DEN | 6 8 0 2 | 0 2 | W1002 | 124-91 | 4 | 21 |

P R J: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: Unit of Recov.: FT • 2 — %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI — MA AZ BO CP CC

Lower Tier Geodata: Unit of RQD — %RQD — L/F — SI CL EP — TE PY MT MO

| Key | Flag | FROM | TO | SAMPLE NO. / INT. / Description | Fracture | Struct / Alteration |
|---|---|---|---|---|---|---|
| / | NG1 | 1031 | 1040 | 3 | | V/ 030° |
| R | | | | COARSE GR ORTHOCLASE FELD DOMINANT UNIT | | |
| / | NG1 | 109 | 110 | 3 | | |
| | | | | COARSE GR KF DOMINANT | | V/ 040° |
| | | | | UPPER CONTACT 040° | | |
| / | PG1 | 110 | 120 | 2C | 0.4 0.6 | |
| L | | | | | 0/ | |
| R | | | | 2C UNIT AS ABOVE | | |
| L | NG1 | 110 | 111.9 | | | $/ 020° |
| R | | | | COARSE GR KF DOMINANT UNIT ABOVE CONTINUES | | |
| | | | | LOWER CONTACT 020° TO CORE | | |
| / | NG1 | 113.0 | 113.7 | 3 KF DOMINANT | | V/ 025° |
| / | NG1 | 117.9 | 118.9 | 3 | | |
| L | | | | EP ALTERED 3 UNIT HIGHER | | |
| R | | | | MICA CONTENT THAN SEEN | | |
| | | | | EARLIER | | |
| / | NG1 | 118.9 | 119.6 | 3 | | |
| L | | | | | | F/ — — 2 4 |
| R | | | | HIGHLY FRACTURED AND EP/CLAY ALTERED UNIT 3 IN SH OR F/ ZONE. HIGH CLAY AND CALCITE CONTENT ≈40-50% | | |
| | | | | 5% RELIC KF | | |
| / | NG1 | 119.6 | 120 | 3 | 0.1 | 2 • |
| L | | | | | 0.2 | 2 2 2 |
| R | | | | HIGHLY ALTERED UNIT 3. ABUNDANT FRAGMENTS OF BROKEN FELDSPAR QTZ X-TALS MICAS HAVE ALL GONE TO CL COMPETENT UNIT WITHIN LARGER FAULT ZONE | | |
| / | PG1 | 120 | 130 | 2C | 0/01 | + • • • |
| L | | | | | 02 | + / |
| R | | | | MOD COMPETENT 2C WITH SLIGHT KF/EP ALTERATION THROUGHOUT | | |
| / | | 124.5 | 124.6 | 3 | | $/ 040° |
| R | | | | KF DOMINANT UNIT | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEY IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DEN 6 B 0 2 0 2 | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 | ID of DRILLHOLE/TRAVERSE PREFIX TYPE NUMBER: 1 24 -91 | PAGE 52 | OF

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | DRILLING BY: WILLIAMS CREEK

Survey Data: TURN GPT 300 m Collar | FROM (Marks Loc of Feature) | TO | MT/FT: FT | TOTAL DEPTH-LENGTH | AZM DECLINATION FROM TRUE N | V-ANG REC'D DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING REC'D SOUTH | EASTING REC'D WEST | ELEVATION REC'D SUB-SEA

Upper Tier Geodata: FLAG NAM SCL | Unit of Recov | Unit of Length: FT | RECOVERY %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI | ALTERATION & MINERALIZATION DEFAULT SUITES: HE BI | MA AZ | BO CP CC

Lower Tier Geodata: FLAG NAM SCL | Unit of ROD | ROD %ROD | L/F | SI CL | EP | TE PY | MT MO

GRAPHIC | Any 2 = Flat or Flag = Composite MAX or MIN or 001 = 999 | Any TYP 01-99 as desired

| FROM | TO | SAMPLE NO. | INT. | RECOVERY (5 = Subject Spec.?) | HASH TOTAL |
|---|---|---|---|---|---|
| NG1 | 120 | 1218 | 3 | | |

CONTINUATION OF ABOVE UNIT (119.6 - 120')

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 127.7 | 130 | G | 2c | F/ — — |

FAULT GOUGE EP/KLAY/CALCITE RICH, WITH FRAGMENTS (30 - 40%) OF HIGHLY ALTERED 2c GOUGE MATRIX IS MED GR ANGL INCOMPETENT ROCK FRAGMENTS ARE SUB-ANGULAR TO SUB-ROUNDED

| | | | | | |
|---|---|---|---|---|---|
| PG1 | 130 | 140 | | 2c | F. ) |

TYPICAL 2c UNIT WITH WHITE PHENOS OF ORTHOCLASE/PLAG ± QTZ

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 130 | 132.6 | 5 | 0304 | S1 040° |

KF DOMINANT UNIT MARKS THE F/W OF F1 MOD COMPETENT UNIT

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 135.9 | 136.2 | 3 | | S1 040 |

KF DOMINANT UNIT

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 139 | 140 | 2c | | |

QTZ/KF FLOODED 2c UNIT TEXTURE AS ABOVE 1 2 * 1
BUT LOWER (<15%) MAFICS

| | | | | | |
|---|---|---|---|---|---|
| PG1 | 140 | 150 | 2c | 0602 0.3 | DF) FC 2 +D) |

CONTINUATION OF ABOVE QTZ/FELDSPAR FLOODED 2c UNIT

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 149.3 | 150 | 2c | 0802 02 | F. F. ) F. |

UNALTERED 2c UNIT WITH WHITE PHENOS
TYPICAL 2c UNIT. MINOR HEMATITE STAINED FRACTURES

1 = One | 2 = Two | 3 = Seven | Ø = Alpha O | I or 1 = Alpha I | Z = Alpha Z | 5 = Alpha S | 0 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

FLAG: D E N | FORMAT VERSION: 6 B 0 2 | SPEC: 0 2 | IDENTITY OF PROJECT: W1002 | ID OF DRILLHOLE: 124-91 | PAGE: 62

P R J: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

MT/FT: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | TE | PY | MT | MO

| Key | Flag | FROM | TO | INT. | Fracture | Struc / Azm | KF / SI | LI / CL | HE / EP |
|---|---|---|---|---|---|---|---|---|---|
| / | PG1 | 150. | 160. | 2c | 0703 | | | | |
| L | | | | | 0.2 | | | | |
| R | | CONTINUATION OF ABOVE 2C UNIT WITH IRREGULAR MED GR Hb CLOTS 1-2% OF UNITS | | | | | | | |
| / | PG1 | 160 | 170 | 2c | 0302 | | F. | | F. |
| L | | | | | 0.4 | | | . | F. |
| R | | 2C UNIT AS ABOVE CONTINUES COMPETENT UNALTERED UNIT | | | | | | | |
| / | NG1 | 165.7 | 166.0 | 3 | | $1 055° | | | |
| R | | WHITE PLAG/ORTHOCLASE DOMINANT UNIT. MINOR KF/EP. | | | | | | | |
| / | NG1 | 167.9 | 168.6 | 2c | | SH 030° | F) | | F) |
| L | | | | | | | 1 | | F+ |
| R | | CL RICH 2C UNIT IN MINOR SH | | | | | | | |
| / | PG1 | 170 | 180 | 2c | 1103 | | F. | | F. |
| L | | | | | 03 | | | | F. |
| R | | MOD COMPETENT UNALTERED 2C UNIT | | | | | | | |
| / | NG1 | 172 | 174.3 | 3 | | SH — — ) | | | • |
| L | | | | | | | | 1 | + |
| R | | MOD CL ALTERED 2C/3 UNIT. HIGHLY FRACTURED UNIT. LOWER CONTACT IS HIGHLY SHEARED WITH HIGH CL/CLAY/CALCITE CONTENT | | | | | | | |
| / | PG1 | 180 | 190 | 2c | 0506 | | F. | | F. |
| | | | | | 03 | | | . | F. |
| | | COMPETENT, UNALTERED 2C UNIT WITH WHITE PHENOS OF FELDSPAR/QTZ | | | | | | | |
| / | NG1 | 181.9 | 182.0 | 3 | | $1 070° | | | |
| R | | COARSE GR. KF DOMINANT | | | | | | | |
| / | NG1 | 184.5 | 184.6 | 3 | | $1 075° | | | |
| | | COARSE GR WHITE PLAG/ORTHOCLASE DOMINANT | | | | | | | |

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| Field | Entry |
|---|---|
| Flag | DEN 6 8 0 2 0 2 |
| Identity of Project | W1002 |
| ID of Drillhole | 124-91 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| Page | 72 |
| Unit of Length | FT |

Upper tier geodata headings: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower tier geodata headings: %RQD, L/F, SI, CL, EP, TE, PY, MT, MO

| Flag | From | To | Rock Type | S/F M/F | L/F | Struct | KF | HE | Description |
|---|---|---|---|---|---|---|---|---|---|
| /PG1 | 190 | 200 | 2c | 04 03 | 01 | | F. | F. / F. | COMPETENT 2C UNIT AS ABOVE, MINOR HE STAIN ON FRACTURES |
| /PG1 | 200 | 210 | 2c | 05 03 | 04 | | F. | F. / F. | MOD FRACTURING, MINOR QTZ/FELDSPAR FLOODED PATCHES ASSOCIATED WITH 3 BI |
| /NG1 | 201.3 | 202.2 | 3 | | | | | | WHITE FELDSPAR DOMINANT UNIT |
| /NG1 | 202.2 | 204 | 2c | | | | F. | ) F. / F. | FELDSPAR/QTZ FLOODED ZONE. MAFIC CONTENT ≈ 5-10% AS FINE GR DISSEMINATIONS |
| /NG1 | 205.9 | 206.0 | 3 | | | S1 030° | | | WHITE FELDSPAR/QTZ DOMINANT |
| /PG1 | 210 | 220 | 2c | 01 04 | 02 | | F. | F* / ) F. | COMPETENT 2C UNIT WITH MINOR HE STAINING ON FRACTURES MINOR IRREGULAR CLOTS OF MED GR Hb (<1% OF UNIT) FRACTURES 20-30° |
| /NG1 | 215 | 215.3 | 2c | | | SH 060° | | | KF/EP E ON FRACTURE |
| /PG1 | 220 | 230 | 2c | 02 03 | 02 | | F. | F+ / D=F. | UNIT CONTAINS HE STAINED FRACTURES AT 30-40° MINOR KF/EP E ON MINOR FRACTURES CL CONTENT IS HIGHER THAN ABOVE INTERVAL |

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identifier Data: KEY I— DEN 6802 02 | FLAG PRJ | FORMAT VERSION / SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) W1002 | ID OF DRILLHOLE, TRAVERSE, PROFILE, TYPE, NUMBER 124-91 | SIZE OF CORE OR HOLE | GEOLOGGED YY MM DD BY | ASST BY | COMPLETED MM DD | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE OF 821

WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: TURN OFF DDD=Collar | FROM Meters Up of Feature | TO | MT/FT FT | TOTAL DEPTH LENGTH | AZM (LEAVE FROM TRUE) | V-ANG NEG=DOWN | HASH TOTAL (AZM+TO+AZM+V-ANG+FROM+TO) NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=SUB-SEA

Upper Tier Geodata: FLAG NAM SCL | Unit of Recov | Unit of Length F 3 2 | RECOVERY %REC | ROCK TYPE | TYPIFYING MINS | GALMAT | TEXTURES | GRAIN | FRACTURE COUNT | STRUCT 1 ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT NOTES: QZ BI CY CB MG AK PY CP GL YY | SUMMARY

Lower Tier Geodata: FLAG NAM SCL | M or F | Unit of RQD %RQD | RQD | ENV | RTQ | TXT | FOLIATION | L/F | STRUCT 2 ID | STRIKE AZM | DIP | KF MU CL EP HE TE PY MT MO SI

GRAPHIC

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| 2288 | 2293 | | | KF DOM. MAFIC UNIT. KF FLOOD BASALT ZC UNIT. CONTACTS ARE GRADATIONAL. |
| 2293 | 230 | | ZC | QTZ/FELSPAR FLOOD BASALT ZC UNIT WITH HIGH CL CONTENT ALONG FRACTURES. MINOR MOVEMENT ALONG FRACTURES (≈ 1-5 mm) FRACTURE PATTERN APPROACHING CRUMBLE CLEAVAGE TYPE |
| 230 | 240 | | ZC | CONTINUATION OF ABOVE UNIT. MINOR SH ZONE. MINOR BLEACHING/CLAY ALTERATION OF FELDSPARS. FRAGMENTS OF ZC IN MF/CL MATRIX ALONG FRACTURE ZONES. FRACTURE ARE IRREGULAR IN SHAPE AND ORIENTATION. |
| 2375 | 2376 | | | FINE GR MB RICH ZONE ≈ 1' WIDE CONTAINS CONCRETE TO MED GR QTZ/FELDSPAR FRAGMENTS (≈ 30-40%) |
| 2376 | 2378 | | | FINE GR, LIGHT PINK, CLAY/MF/CALCITE RICH SH ZONE. SH 085 |
| 2385 | 2387 | | | KF DOM. MAFIC UNIT. SH 085° |
| 240 | 250 | | ZC | MOD COMPETENT UNIT WITH MINOR MF FRACTURES |
| 2420 | 2428 | | ZC | FRACTURED UNIT WITH FRAGMENTS ≈ 5mm TO 3cm IN MF STAINED MATRIX. IRREGULAR FRACTURE PATTERN. SH 050° |
| 2437 | 244 | | ZC | QTZ/PEG FLOODED ZONE. CLAY/CALCITE ALTERATION THROUGHOUT. INTENSE ≈ 10-15% |

1 = One, 2 = Two, 7 = Seven, Ø = Alpha O, 1 or I = Alpha I, Z = Alpha Z, 0 = Zero, S = Alpha S

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILLHOLE / TRAVERSE: PREFIX / TYPE / NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY / MM / DD | BY | ASST BY | COMPLETED MM / DD | DRILLING BY | YY | STARTED MM / DD | COMPLETED MM / DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | D E N | 6 8 0 2 0 2 | | W1002 | 124-91 | | | | | | | | | | | | | | | 92 |
| I | P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | WILLIAMS CREEK | | | | | | | | | |

| S | TURN CPT 000 = Collar | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG NEG = DOWN | HASH TOTAL (+ DIP + AZM + V-ANG + N + E + EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | | |

| | FLAG | RECOVERY TMED MIN | ROCK ROCK TYPE | TYPIFYING MINS TM1 TM2 | GAL/MAT GM1 GM2 | TEXTURES TX1 TX2 FV | GRAIN CY C/MP | FRACTURE COUNT 1 2 | Dip Type T1 | STRUCT ID | STRUCT AZM | DIP To Hang | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY CB MC XX PY | CP | CL | YY | SUMMARY FA AI MC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL Unit of Recov / Unit of Length F T . 2 | %REC | ROCK TYPE | | | FOLIATION | | S/F M/F | | | | | KF | LI | HE BI | MA AZ | BO | CP CC | |

| | FLAG | M or F | RQD Age Form | INV BTQ | CORE TM1 QM1 | TX1 TX2 Sx Rx Sv | Qc | R Tm S LI | Dip Type T2 | STRUCT ID | STRUCT AZM | DIP To Hang | XF | MU | CL EP | HE | Hw Alt PR | MO SL | Hw Alt | Hem1 | Hem2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM SCL Unit of RQD | %RQD | | | | | | L/F | | | | | SI | CL | EP | TE | PY | MT | MO | | |

GRAPHIC

| A | Any Zone Rock or Hole in CONGDON MAP or SOIL = 999 |
|---|---|
| H | 01 Tag Zone Rock in SLIVER pmm |
| F | Tag Zone Rock any no. 01-99 as det |

| | FROM | TO | SAMPLE NO. | INT. | RECOVERY % Sample Sent | ROCK TYPE | FRACTURE COUNT | STRUCTURE | ALTERATION & MINERALIZATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | From To | | | | |
| / PG1 | 250. | 260. | | 2c | | | 2405 01 | | |
| < | | | | | | | | | |
| R | | | UNIT AS ABOVE WITH HE E ON FRACTURES | | | | | | |
| / NG1 | 250 | 251.4 | | 2c | | | | SH045° | |
| < | | | | | | | | | |
| R | | | HIGHLY SHEARED CC RICH SHEAR ZONE | | | | | | |
| | | | CLASTIAN IMAS MASKED TOR IGNEOUS ROCK COMPOSITION | | | | | | |
| | | | 10-20% ROCK FRAGMENTS, 80-90% CK/CALCITE/HE MATRIX | | | | | | |
| / PG1 | 260 | 270 | | 2c | | | 0.6 0.2 0.0 | | |
| < | | | | | | | | | |
| R | | | FRACTURED UNIT WITH HE E ON FRACTURES | | | | | F. F) D*F. | |
| / NG1 | 260 | 260.4 | | 3 | | | | 31045° | |
| R | | | MED GR XF DOMINANT | | | | | | |
| / NG1 | 262.5 | 264 | | 3 | | | | 31030° | |
| R | | | MOD FRACTURED HE STAINED, MED TO CO ARSE GR ORTHOCLASE/PLAG DOMINANT | | | | | | |
| | | | UNIT | | | | | | |
| / NG1 | 264.5 | 267 | | 6 2c | | | | | |
| < | | | | 4 5 | | | | | |
| R | | | MOD COMPETENT 2c UNIT WITH 31/<075 OF 5 MATERIAL | | | | | | |
| | | | IRREGULAR CONTACTS/MARGINS | | | | | | |
| / NG1 | 267.7 | 267.8 | | 2c | | | | SH060° | |
| | | | SH ZONE AS DESCRIBED ABOVE (250 – 251.4) | | | | | | |
| / PG1 | 270 | 280 | | 2c | | | 0.4 0.4 0.0 | F. F) F*F. | |
| | | | UNIT HAS HE/CLAY/CALCITE E ON FRACTURES | | | | | | |
| | | | MOD COMPETENT UNIT | | | | | | |

1 2 3 4 5 6 7

0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 1 or I = Alpha I 2 = Alpha Z $ = Alpha S

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| | |
|---|---|
| Identification Data | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION; WILLIAMS CREEK; W1002; 124-91; 1021 |
| Survey Data | FT |
| Upper Tier Geodata | %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC |
| Lower Tier Geodata | %RQD; L/F; SI CL EP TE PY MT MO |

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| 278. | 279. | | 2c | FRACTURED 2c UNIT IN FINE GR HE RICH MATRIX; FRAGMENT DC CHLORITIC/CARB ALTERATION ≈ 20% |
| 280 | 290 | | 2c | UNIT AS ABOVE |
| 283.8 | 286 | | 2c | QTZ/FELDSPAR FLOODED 2c UNIT. MAFICS = 3-5%; CONTACT GRADATIONAL. NO PEGMATITIC TEXTURES |
| 288.7 | 290 | | 3 | COARSE GR KF DOMINANT UNIT |
| 290 | 300 | | 2c | UNIT AS ABOVE WITH HE ON FRACTURES |
| 291 | 291.8 | | | QTZ/FELDSPAR FLOODED 2c UNIT, 10-15% MAFICS |
| 291.8 | 292.6 | | 2c | UNIT HAS ≈ 40% MAF TO COARSE GR HBD CLOTS |
| 294.9 | 295.3 | | 3 | KF DOMINANT UNIT |

Z = Alpha Z; I or I = Alpha I; Ø = Alpha O; 3 = Seven; 2 = Two; 1 = One; 0 = Zero; $ = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: DEN 6802 W1002 — PRJ WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — DRILLING BY WILLIAMS CREEK — 1/24-91 — PAGE 1/21

Survey Data: STRN CPT 000 m Collar — FROM — TO — MT/FT FT — TOTAL DEPTH LENGTH — AZM — CLOCKWISE FROM TRUE — V-ANG NEG IF DOWN — HASH TOTAL NOT INCLUDING ANY BLANK FIELDS — NORTHING NEG SOUTH — EASTING NEG WEST — ELEVATION NEG SUB-SEA

Upper Tier Geodata: FLAG NAM SCL — Unit of Recov — Unit of Length FT * 2 — RECOVERY T MOD MIN — %REC — ROCK ROCK TYPE — TYPIFYING MINS TM1 TM2 — GALMAT GM1 GM2 — TEXTURES TX1 TX2 — GRAIN FI CL CM MP — FOLIATION — FRACTURE COUNT S F — STRUCT ID — STRIKE AZM — DIP — KF — LT — ALTERATION & MINERALIZATION DEFAULT SUITES CY CB MG XX PY — HE BI — MA AZ — BO CP CC — SUMMARY

Lower Tier Geodata: FLAG NAM SCL — Unit of RQD — %RQD — RQD — AZM Form — ENV — ATG — Caliber — TM1 — GM1 — TX1 — TX2 — Sh — Rw — Sh %Oc — L/F — STRUCT ID — AZM — DIP — SI — CL — ALTERATION & MINERALIZATION DEFAULT SUITES CL EP — HE — TE PY — MA AZ — MT MO — SU — How Abd — How1 — How2

GRAPHIC

A — Any Zone Flag or Flag 0 Composite (MAX of MIN of 001 – 006) — RECOVERY — %R in Sample Serial No. — FROM — TO — SAMPLE NO. — INT. — HASH TOTAL

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| PG1 | 300 | 310 | 2c | 0.4 0.4 F. F) D* F. 0.5 |
| | | | 2c AS ABOVE WITH HE STAINING ON FRACTURES | |
| NG1 | 307.4 | 307.9 | 3 | $1045° |
| | | | COARSE GR KF DOMINANT | |
| NG1 | 306 | 307 | 3 2c | |
| | | | 7 5 | |
| | | | QTZ/FELDSPAR FLOODED BY 5. CONTACTS GRADATIONAL | |
| PG1 | 310 | 320 | 2c | 0.5 0.7 0.1 |
| | | | MOD COMPETENT UNIT WITH HE E AND ZEOLITES/CLAY/CALCITE E ON FRACTURES | |
| NG1 | 314.9 | 315.5 | 4 2c | |
| | | | 6 5 | |
| | | | 2c UNIT INTERLAYERED BY 5. IRREGULAR, GRADATIONAL CONTACTS | |
| NG1 | 316.3 | 316.9 | 2c | SH 030° F? + D. |
| | | | KF/QTZ FLOOD 2c UNIT. KF ALTERATION DEVELOPED ALONG FRACTURES. MOD CL ALTERATION | 2 = F+ |
| NG1 | 316.9 | 319 | 8 3 | |
| | | | 2 2c | |
| | | | COARSE GR 3 UNIT WITH PARTIALLY ABSORBED 2c MATERIAL MAFIC CONTENT 10 – 15% AS B1 0/CC | |
| PG1 | 320 | 330 | 2c | 0.2 0.2 F. F) D. |
| | | | 0.0 | |
| | | | TYPICAL 2c UNIT WITH WHITE PHENOS HE E AND ZEOLITE/CLAY/CALCITE E ON FRACTURES | |
| NG1 | 320.2 | 320.5 | 3 | $1085° |
| | | | COARSE GR KF DOMINANT UNIT | |

1 = One, 2 = Two, 7 = Seven, Ø = Alpha O, Loi = Alpha I, Z = Alpha Z, 0 = Zero, S = Alpha S

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | | FORMAT VERSION | SPEC | IDENTITY OF PROJECT (OR SUB-PROJECT) (UNIQUE) | DDH ORIGINAL TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | YY | MM | DD | GEOLOGGED BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Identity Data | D | E | N | 6 | 8 | 0 | 2 | 0 | 2 | W1002 | | | 124-91 | | | | | | | | | | | | | | | | | 121 |
| | P | R | J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | | |

| | KEY | FLAG | FROM (Metres Log at Feature) | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM (SEE SCHEMA FROM TRUE N) | V-ANG (NEG IS DOWN) | HASH TOTAL (NOT INCLUDING ANY BLANK FIELDS) | NORTHING (NEG IS SOUTH) | EASTING (NEG IS WEST) | ELEVATION (NEG IS SUB-SEA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Survey Data | S | | | | FT | | | | | | | |

| | KEY | FLAG | RECOVERY | ROCK | FYPEVENS MIN1 | FYPEVENS MIN2 | GALMAT COM1 | TEXTURES TX1 | TEXTURES TX2 | GRAIN FI | GRAIN CI | GRAIN C_MP | FRACTURE COUNT 1 | FRACTURE 2 | STRUCT ID | STRUCT AZM | ALTERATION & MINERALIZATION DEFAULT SUITES CP | GL | YY | SUMMARY Fx | Ax | Mx |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Tier Geodata | | NAM SCL | Unit of Recov. | %REC | | | | FOLIATION | | | | | S/F | M/F | | | KF | LI | HE | BI | MA | AZ |

| | KEY | FLAG | ROD | ROD ACL Comp | ENV | RTQ | Chlor | YM1 | CAR1 | TX1 | TX2 | Sx | Ax | Sv | S_IN | S_DP | STRUCT ID | STRUCT AZM | T Type | KF | MJ | CL | EP | HE | Hw Alter | FB | MO | SI | Hw Alter | HOA | How |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower Tier Geodata | L | NAM SCL | Unit of ROD | %RQD | | | | | | | | | | | L/F | | | | | SI | | CL | EP | | TE | PY | MO | | | |

GRAPHIC

| | KEY | FROM | TO | SAMPLE NO. | INT. |
|---|---|---|---|---|---|
| | NG | 322.9 | 323.0 | | 3 |
| | R | | | KF DOMINANT UNIT | |
| | NG | 326.4 | 330.0 | | 3 |
| | R | | | COARSE GR WHITE PLAG/ORTHOCLASE DOMINANT UNIT | |
| | R | | | MAFIC CONTENT ≈ 10% UNIT BECOMES CC RICH NEAR FW CONTACT WITH 2C | |
| | PG | 330 | 340 | | 2C |
| | L | | | | 0.2.1.1 |
| | R | | | | 0.1 |
| | R | | | CONTINUATION OF 2C UNIT AS ABOVE | |
| | NG | 330.1 | 330.2 | | 3 |
| | R | | | COARSE GR KF DOMINANT | |
| | NG | 338.4 | 338.7 | | 5 |
| | R | | | FINE GR KF/NEI STAINED $1, NO ORIENTATION POSSIBLE | |
| | PG | 340 | 350 | | 2C |
| | L | | | | 0.8.0.8 |
| | R | | | | 0.0 |
| | R | | | UNIT AS ABOVE CONTINUES. MINOR ZEOLITE/CALCITE ON NON-HE STAINED FRACTURES | |
| | NG | 341.0 | 341.3 | | 2C |
| | R | | | NARROW SH ZONE CL/EP RICH FINE GR MATRIX WITH FINE TO MED GR KF/PLAG FRAGMENTS (MATRIX ≈ 30%) | |
| | NG | 347.7 | 347.8 | | 3 |
| | R | | | ZEOLITE/CLAY/CALCITE ALTERED MED GR $1 | |
| | NG | 348.5 | 348.9 | | 2C |
| | R | | | HE KF/EP ON 0.4' WIDE SH MOVEMENT VERY MINOR (1-5mm) | |
| | NG | 349.7 | — | | 2C |
| | R | | | NARROW SH WITH CC ≈ 5mm WIDE | |

1 = One 2 = Two 3 = Seven Ø = Alpha O 1 or I = Alpha I 2 = Alpha Z 5 = Alpha S 0 = Zero

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| Format Version | Identity of Project | Hole ID | Page |
|---|---|---|---|
| 6 8 0 2 0.2 | W1002 | 124-91 | 13 / 21 |

**WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

Unit of Length: FT

| Key | Flag | From | To | Sample No. | Int. / Rock Type | S/F M/F / L/F | Struct | KF / SI | HE / EP | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | PG1 | 350. | 360 | | 2c | 0.3 0.4 | | F+ | F+ | |
| L | | | | | | 0.2 | | ) | F+ | |
| R | | | | | | | | | | UNIT AS ABOVE WITH LOW ANGLE FRACTURES WITH MOD HE E. MINOR AMOUNTS OF MOVEMENT ALONG FRACTURES |
| 1 | NG1 | 359.1 | 359.8 | | 2c | | SH 040° | | | |
| R | | | | | | | | | | MINOR SH ZONE WITH FINE GR HE RICH MATRIX. 2c FRAGMENTS ≥ 80% OF INTERVAL |
| 1 | PG1 | 360 | 370 | | 2c | 0.4 0.4 | | F+ | F+ | |
| L | | | | | | 0.4 | | ) | F+ | |
| R | | | | | | | | | | MOD FRACTURED UNIT AS ABOVE WITH HE E AND ZEOLITE/CALCITE E ON FRACTURE SURFACES. VERY MINOR SS DEVELOPMENT ON SOME FRACTURES |
| 1 | NG1 | 366.9 | 367.3 | | 3 | | SH 060° | | | |
| R | | | | | | | | | | COARSE GR KF DOMINANT UNIT |
| 1 | PG1 | 370 | 374.5 | | 2c | | | F• | F+ | |
| L | | | | | | | | ) | F• | |
| R | | | | | | | | | | MOD COMPETENT 2c UNIT AS ABOVE |

81-130

International Geosystems Corporation — Geology System — MAIN FORM — Geoform

| Format | Identity of project | Hole no. | Page |
|---|---|---|---|
| 6 8 0 2 0 2 | W1002 | 124-91 | 14 / 21 |

**WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

Units: FT

Header fields: RECOVERY %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC; %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO; FROM, TO, SAMPLE NO., INT.

| Key | Flag | From | To | Sample / Int. | Rock type | Struct | Angle | Alteration / mineralization | Comments |
|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  | NOTE - CORE SPLIT BEFORE LOGGING - FOOTAGES APPROX. |
| / | P | 374.50 | 384.50 |  | 2c |  |  | E- |  |
| L |  |  |  |  |  |  |  | / 0 C. |  |
| R |  |  |  |  |  |  |  |  | FAIR WHITE PHENOCRYSTS; BELOW 383 BECOMES STRONGLY FOLIATED; |
| / | N1 | 376.60 | 378.20 | X | 6 | D/ | 050° |  |  |
| R |  |  |  |  |  |  |  |  | CARMACK GROUP DYKE - FINE HB PHENOCRYSTS IN A DARK FV-HB MATRIX; |
| / | P | 384.50 | 394.50 |  | 2c | FO | 150 | C- 0 0 0 0 0 |  |
| L |  |  |  |  |  |  |  | / 0 0 0 |  |
| R |  |  |  |  |  |  |  |  | BI > HB |
| / | N1 | 384.90 | 385.10 | X | 1d |  |  | 0 0 0 0 |  |
| L |  |  |  |  |  |  |  | 0 |  |
| / | N1 | 386.00 | 387.10 |  | 1a |  |  | C. 0 0 0 |  |
| L |  |  |  |  |  |  |  | D- |  |
| R |  |  |  |  |  |  |  |  | IN PART COARSE GRAINED; BI > HB? |
| / | N2 | 387.10 | 387.70 |  | 1b | SH | 60° |  |  |
| L |  |  |  |  |  |  |  | <+ |  |
| R |  |  |  |  |  |  |  |  | SHEARED, PROPYLITIC ALTERED - FELDSPARS AND MAFICS TO CY AND CA; FAULT - FAIR |
| / | N3 | 388.00 | 389.00 | X | 3 |  |  |  |  |
| R |  |  |  |  |  |  |  |  | OCC. <10MM HE BRECCIA |
| / | N4 | 389.00 | 389.50 |  | 2c | SH | 45° |  |  |
| R |  |  |  |  |  |  |  |  | STRONG 20MM SHEAR ON LOWER CONTACT; |
| / | N5 | 389.50 | 390.40 | X | 1a |  |  | D- 0 0 D+ |  |
| L |  |  |  |  |  |  |  | D+ 0 0 0 |  |
| R |  |  |  |  |  |  |  |  |  |

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| FLAG | FORMAT VERSION | IDENTITY OF PROJECT | ID of DRILLHOLE | PAGE | OF |
|---|---|---|---|---|---|
| DEN | 6 8 0 2 0 2 | W1002 | 124-91 | 15 | 21 |

**PRJ: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK**

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower Tier Geodata: %RQD, L/F, SI, CL, EP, TE, PY, MT, MO

| FLAG | FROM | TO | SAMPLE NO. / INT. | Description / Structure | Alteration & Mineralization |
|---|---|---|---|---|---|
| R | | | | 391.7–392.3 – WEAK SHEAR (OU) ANGLE | |
| / N6 | 392.35 | 394.00 | X 1c | | C? 0 0 D* |
| L | | | | | D* |
| R | | | | BIT NB?? ; FINER GRA USED TO LOWER CONTACT ; SY-PATCHY ; | |
| / N7 | 394.00 | 394.50 | X 3 | | 0 0 |
| L | | | | | |
| R | | | | | |
| / P | 394.50 | 404.00 | 1a | | C* 0 D – DC |
| L | | | | | CC |
| R | | | | COARSE, GRA ... LIGHT COLORED AM; NARROW BANDS, ... GRAINED | |
| | | | | PATCHY SX; WEAK MIN'Z; BELOW 402.4 INCREASED BI; | |
| / N1 | 396.00 | 396.50 | X 3 | D/ D 50° | 0 |
| R | | | | | C – |
| / N2 | 400.20 | 402.40 | 7 3 | | 0 |
| L | | | | | C – |
| R | | | | UNIT 3 FLOODED; | |
| / P | 404.00 | 408.00 | 3 | | 0 0 0 0 0 |
| L | | | | | D. |
| R | | | | DYKE – CONTACTS LOST | |
| / P | 408.00 | 418.00 | 1b | | C – 0 0 D – |
| L | | | | | D – 0 |
| R | | | | UNIT 1b – LIGHT COLORED – LOOKS GNEISSIC 2c WITH < 20% NARROW BANDS | |
| | | | | – 40MM OF LIGHT COLORED 1c USUALLY WITH WEAK SY; | |
| | | | | OVERALL VERY WEAK MIN'Z; | |
| / N1 | 411.1 | 411.75 | 8 3 | SH 50° | 0 0 0 0 0 |
| L | | | | | D. |
| R | | | | SHEARED | |
| / N2 | 413.10 | 414.00 | 9 3 | | |
| L | | | | | |
| R | | | | LIGHT – MED. GRAY, FINE MAFICS WITH WEAK KF AND QZ; | |

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FORMAT VERSION: 6 9 0 2 0 2 | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 | DRILLHOLE-TRAVERSE: 124-91 | PAGE: 16 21

PROJECT: WESTERN COPPER HOLDINGS — THERMAL EXPLORATION | WILLIAMS CREEK

| FROM | TO | MT-FT | TOTAL DEPTH LENGTH |
|---|---|---|---|
| | | FT | |

| FROM | TO | RECOVERY %REC | ROCK TYPE | FOLIATION | S/F M/F | STRUCT | STRIKE AZM | DIP | ALTERATION & MINERALIZATION | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|
| 418400 | 428400 | | 1a | | | FO | | 70° | CA 0 DC | 0 DC 0 |
| | | | | | | | | | DC | / 0 |
| | | BELOW TOP 1b LIGHT COLORED BANDS DECREASING | | | | | | | | |
| | | 420' 1a1 - MED-COARSE 2ND FEL ANDS INTERCALATED | | | | | | | | |
| | | FINE-GR WHITISH WEAK SY AND CHLOR ID THIS SECTION | | | | | | | | |
| 419.70 | 420.30 | | | | | SH | | 20° | | |
| | | TWO - 15 MM HE SHEARS; MODERATE FAULT; | | | | | | | | |
| 428.00 | 438.00 | | 1a | | | | | | CC D* D* | |
| | | | | | | | | | DC | |
| | | AS ABOVE; BELOW 431.70 - 440MM SILLS OF UNIT 2C; THE ABOVE 1a | | | | | | | | |
| | | THIS SECTION COULD BE CALLED 1a; SECTION DARK COLOR-HIGH BIOTITE | | | | | | | | |
| 431.50 | 434.00 | | 1a | | | | | | C* 0 B? D? | |
| | | | | | | | | | D* 0 / 0 | |
| | | FAIR-MOD DIFFER-WATER AND FINE BLEK MG ANU CT | | | | | | | | |
| 436.30 | 438.00 | | 1a | | | | | | C-C- 0 D- | |
| | | | | | | | | | D- / 0 | |
| | | BT>HB AND HBKBT LIGHT COLORED; WEAKER FAT CT | | | | | | | | |
| 438.00 | 448.00 | | 1b1 | | | FO | | 60° | CC 0 0 D* | |
| | | | | | | | | | DC | |
| | | 1b - LIGHT COLORED WEAKLY GNEISSIC WITH <30% DARKER BANDS AND | | | | | | | | |
| | | STRONG GNEISSIC TEXTURE; WEAK MINZ; CORE NICELY BROKEN BELOW | | | | | | | | |
| | | 439 FT - LOOKS WEA AND NOT FAULTED | | | | | | | | |
| 444.40 | 445.50 | | 1b1 | | | | | | C 0 0 0 | |
| | | | | | | | | | C | |
| | | WEAK KF AND QZ; | | | | | | | | |
| 447.00 | 448.00 | | 1b1 | | | | | | CC 0 0 0 | |
| | | | | | | | | | C- | |

1 = Alpha Z | 2 = Alpha | 3 = Alpha C | 4 = Num | 5 = Num Z | 6 = Num C | 7 = Chars | 8 = Alpha S

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| Identity of Project | Drillhole | Page |
|---|---|---|
| W1002 | 124-91 | 72 |

**WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

Unit of Length: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | TE | PY | MT | MO

| Key | Flag | FROM | TO | Sample No. | Int. | Struct | Dip | Alteration & Mineralization |
|---|---|---|---|---|---|---|---|---|
| / | P | 448.00 | 458.00 | | 2c | FO | 65° | C· 0 0 0 |
| L | | | | | | | | C· |
| R | CORE - [illegible] BROKEN TO 457 FT; | | | | | | | |
| / | N1 | 449.60 | 450.50 | X | 1b | | | C- 0 0 0 0 |
| L | | | | | | | | D· |
| R | LIGHT COLORED | | | | | | | |
| / | N2 | 452.80 | 454.00 | X | 3 | | | C* 0 0 0 0 |
| L | | | | | | | | D- |
| / | N3 | 456.00 | 458.00 | 9 | 1d | | | C· D· |
| L | | | | | | | | DC |
| R | MED-COARSE GRAINED | | | | | | | |
| / | P | 458.00 | 468.00 | | 1b | | | C> 0 0 D- |
| L | | | | | | | | D* 0 / 0 |
| R | COARSE AND MEDIUM GRAINED W/ BI? DARK AND LIGHT COLORED BANDS, MIN/Z - MOSTLY CUOX - IN FINER GRAINED ROCKS. | | | | | | | |
| / | N1 | 461.20 | 463.50 | | X3 | | | 0 0 0 0 |
| L | | | | | | | | 0 |
| P | | | | | | | | |
| / | N2 | 466.80 | 647.30 | | X3 | | | 0 0 0 |
| L | | | | | | | | 0 |
| R | | | | | | | | |
| / | P | 468.00 | 473.50 | | 1c | FO | D60° | C* 0 0 D· 0 |
| L | | | | | | | | D* 0 |
| R | FINE GRAINED AT TOP, THEN TO MEDIUM GRAINED TO COARSE GRAINED AT BOTTOM; | | | | | | | |

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| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT | ID of DRILLHOLE | PAGE |
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| D E N | 6 8 0 2 | 0 2 | W1002 | 124-91 | 82 |

**WESTERN COPPER HOLDINGS – THERMAL EXPLORATION** — **WILLIAMS CREEK**

Survey Data: FROM / TO / MT-FT: FT / TOTAL DEPTH-LENGTH / AZM / V-ANG / NORTHING / EASTING / ELEVATION

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | CA | TE | PY | MT | MO

| Key | Flag | From | To | Sample No. / Int. | Rock Type / Remarks | Struct | Dip | Alteration & Mineralization |
|---|---|---|---|---|---|---|---|---|
| / | N1 | 468.00 | 470.80 | 73 | | C/ | 30° | C– |
| L | | | | | | | | C– |
| R | | | | | DYKING LOW ANGLE(S) | | | |
| / | P | 473.50 | 478.00 | | 1F | | | C– 0 0 0 0 |
| L | | | | | | | | D? |
| R | | | | | | | | |
| / | N1 | | | 93 | | | | C? 0 0 0 0 |
| L | | | | | | | | D– |
| R | | | | | SOME FRACTURES STRONG CRUSH MC | | | |
| / | P | 478.00 | 488.00 | | 1c | | | CC 0 0 0 |
| L | | | | | | | | D* |
| R | | | | | COARSE AND MEDIUM GRAINED, MEDIUM COLORED; | | | |
| / | N1 | 478.00 | 480.65 | 73 | | | | C* 0 0 0 0 |
| L | | | | | | | | C– |
| R | | | | | LEUCOCRATIC, FINE-MED. GRAINED; WEAK MAFICS; FLOODING UNIT 1c AT LOW ANGLE TO CORE AXIS; WEAK MIN 2; | | | |
| / | N2 | 481.40 | 486.30 | 73 | | | | CC |
| L | | | | | | | | CC |
| R | | | | | AS ABOVE; WEAK GUOX | | | |
| / | N3 | 487.30 | 488.00 | 93 | | | | CC |
| L | | | | | | | | C– |
| R | | | | | STRONG KF AND QZ | | | |
| / | P | 488.00 | 494.50 | | 1b | E+ | 0 | CC 0 0 0 |
| L | | | | | | | (E– | C. |
| R | | | | | WEAKLY GNEISSIC, TRANSITIONAL UNIT 2c, | | | |

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INTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE or TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR MODEL | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
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| I | D E N | 6 8 0 2 0 2 | | W1002 | | | 124-91 | | | | | | | | | | | | | | | | | | | 1921 | |
| I | P I R | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| TURN CPT. 000 = Collar | FROM Metres Log or Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | DECLINATION FROM TRUE N | AZM | DIP/ANG DOWN | NOT INCLUDING ANY BLANK FIELDS | NORTHING M or S | EASTING M or W | ELEVATION M or SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | FT | | | | | | | | |

| FLAG | Unit of Recov | RECOVERY | TMOD | Min | ROCK TYPE | TYPIFYING MINS | SUBMAT | TEXTURES | GRAIN | FRACTURE COUNT | | STRUCT ID | STRIKE AZM | DIP | DIP DIRN | BI | ALTERATION & MINERALIZATION DEFAULT SUITES | | | | | | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N A M | | %REC | | | | | | FOLIATION | | S/F | M/F | | | KF | LI | HE | BI | MA | AZ | BO | CP | CC | |
| S C L | Unit of Length F | | | | | | | | | | | | | | | | | | | | | | |

| FLAG | Mod of | RQD | AGE Formn | ENV | RTG | Colour | TMS | CMS | TXG | TXE | Sa | Re | H | DC | STRUCT ID | AZM | DIP | DIP DIRN | MU | CL | EP | HE | ALTERATION & MINERALIZATION DEFAULT SUITES | | | | | | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N A M | | %RQD | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S C L | Unit of RQD | | | | | | | | | L/F | | | | | | | | SI | CL | EP | | TE | PY | MT | MO | | | | |

| | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|
| /N1 | 492.00 | 494.50 | X3 | | |
| L | | | | | |
| R | | | | | |
| /P | 494.50 | 507.50 | 1c | | FO 50° C* 0 0 0 DJ ? |
| L | | | | | |
| R | | | MEDIUM-DARK GR/ USU. NO SHEET WEAK SHEARED; GOOD CUOX; MINOR MOD. MAFIC SS; | | |
| /N1 | 494.50 | 496.30 | X3 | | C- C- |
| L | | | | | |
| R | | | WEAK CUOX ON FRACTURES; | | |
| /N2 | 496.30 | 497.80 | 9E | | SW 66° FC 0 C? C- |
| L | | | | | |
| R | | | UNIT 8, STRONG SHEARED; | | |
| /N3 | 498.50 | 499.70 | 1g | | S FO C* 0 9 D C - 0 9 ? |
| L | | | | | |
| R | | | 1g ? - CUOX ITIZED; MAFIC - 95°/; SHEARED ?, MOT - TO BRITTLE-55°? ? |
| /N4 | 506.30 | 507.00 | 1c | | SW 05° |
| L | | | | | |
| R | | | NE SHEAR-05°-CONTACT UNIT 6 | | |
| /N5 | 507.00 | 507.50 | X6 | | 0 0 0 0 0 |
| L | | | | | |
| R | | | FLOW BANDED; MAFIC PHENOCRYSTS-HEAVILY SHEARED IN A VERY FINE GRAINED; GREENSTONE SPOUT DUKE; | | |
| /P | 507.50 | 512.50 | X6 | | C/ 50° |
| L | | | | | |
| R | | | LOWER CONTACT 50°; SHEARS AND FRACTURES - LOW ANGLE; | | |
| | | | | | |
| | | | | | |

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ENTER KEYS in COL. 1 TO ACTIVATE ENTRIES

| F KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | CLIENT DRILLHOLE / TRAVERSE PREFIX / TYPE / NUMBER | SIZE OF CORE OR HOLE | LOGGED YY / MM / DD | BY | ASST BY | COMPLETED YY / MM / DD | DRILLING BY | STARTED YY / MM / DD | COMPLETED YY / MM / DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
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| I | DEN | 6 8 0 2 0 2 | | W1002 | 124-91 | | | | | | | | | | | | | 2021 | |
| T | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | | WILLIAMS CREEK | | |

| S | TURN @ PT 000 = Collar | FROM Metres Est. of Feature | TO | MT FT | TOTAL DEPTH-LENGTH | AZM | INCLN/DIP FROM FEATURE | V-ANG | HOR. DOWN | HASH TOTAL (+A/+E/+Cl/+AZM/+V-ANG/+N/+E/+EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING METRES NORTH / SOUTH | EASTING METRES WEST | ELEVATION METRES ABOVE / SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | | | |

Upper Tier Geodata

| / | FLAG N A M | Unit of Recov | RECOVERY | ROCK ROCK-TYPE | TYPIFYING JOINS | GAL/MAT | TEXTURES | GRAIN | FRACTURE COUNT 1 2 | STRUCT ID | STRIKE AZM | DIP | Q2 | BI | ALTERATION & MINERALIZATION DEPAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | S C L | Unit of Length F | %REC | | | | FOLIATION | | S/F M/F | | | KF | LT | HE BI | MA AZ | BO CP CC |

Lower Tier Geodata

| L | FLAG N A M | Unit of RQD | RQD | ENV RTO | TEXTURES | GRAIN | | | | STRUCT ID | STRIKE AZM | DIP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | S C L | Unit of RQD | %RQD | | | | | | L/F | | | SI | CL | EP CA | | TE PY | MT | MO | | | |

GRAPHIC

| A | FLAG | Any Zone Flag or Flag ≠ CG Opposite MAZ or MIN in 001 – 999 | FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | | 512.50 | 522.50 | | 1d? | | | | | | FO | D60 | | | C* C | 0 | 0 | | | |
| L | | | | | | | | | | | | | | | | CC | | | | | |
| R | | | | | UNIT 1d - FINE & CG MED GRAINED LIGHT COLORED; LOOKS SIMILAR TO UNIT 1e BUT HAS MORE MAFICS; WE SHEARS TO 10MM COMMON - TOP EDGE OF UNIT 1e | | | | | | | | | | | | | |
| / | N1 | | 512.50 | 522.50 | | 1e3 | | | | | | | | | | CC | 0 | 0 | | | |
| L | | | | | | | | | | | | | | | | CC | | 0 | | | |
| R | | | | | FLOODING AND LOW ANGLE DUKING OF UNIT 1g | | | | | | | | | | | | | | | | |
| / | P | | 522.50 | 532.50 | | 1f | | | | | | FO | D60 | C- | | CJ | 0 | DC | D* | | |
| L | | | | | | | | | | | | | | /F-0 | | D* | | | | | |
| R | | | | | FINE MEDIUM GRAINED, SY NOT COMMON OCCASION < 1 FT BANDS TO 528 - 10% PATCHES UNIT 3 | | | | | | | | | | | | | | | | |
| / | N1 | | 527.90 | 529.10 | | 1X3 | | | | | | | | | | C* | 0 | 0 | 0 | 0 | |
| L | | | | | | | | | | | | | | | | D. | | | | | |
| R | | | | | | | | | | | | | | | | | | | | | |
| / | P | | 532.50 | 544.50 | | 1c | | | | | | | | | | C* | 0 | D- | D- | | |
| L | | | | | | | | | | | | | | | | F | | | | | |
| R | | | | | FINE & MEDIUM GRAINED BI>HE; | | | | | | | | | | | | | | | | |
| / | N1 | | 534.00 | 534.70 | | 1X3 | | | | | | D1 | D55 | | | C* | 0 | 0 | 0 | 0 | |
| L | | | | | | | | | | | | | | | | C- | | | | | |
| R | | | | | GRAM FINE DEPPLE MAFICS | | | | | | | | | | | | | | | | |
| / | N2 | | 539.40 | 540.20 | | X3 | | | | | | D1 | U60 | | | CC | 0 | 0 | 0 | 0 | |
| L | | | | | | | | | | | | | | | | CC | | | | | |
| R | | | | | | | | | | | | | | | | | | | | | |
| / | N3 | | 544.20 | 544.50 | | 2c | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | |
| L | | | | | | | | | | | | | | | | 0 | | | | | |
| R | | | | | 544.2 FM | PIW NO 1 ZONE; | | | | | | | | | | | | | | | |

Z = Alpha Z | Y = Alpha I | X = Alpha O | 3 = Num 3 | 2 = Num 2 | 1 = Num 1 | 0 = Zero | 5 = Alpha S

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE-TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | LOGGED YY | LOGGED MM | LOGGED DD | BY | ASST BY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN CPT 000 = Collar | FROM Meters Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM | LOCATE FROM TRUE | V-ANG NEG = DOWN | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | |

| | FLAG | RECOVERY | ROCK TYPE | TYPIFYING MNRS | GALMAT | TEXTURES | GRAIN | FRACTURE COUNT | STRUC1 ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES | | | | | | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | NAM | Unit of Recov | | | | | | | | | | CY | CB | MG | XX | PY | CP | GL |
| L | SCL | Unit of Length F T 1 2 | %REC | | | FOLIATION | S/F M/F | | | | KF | LI | HE | BI | MA | AZ | BO | CP CC |

| | FLAG | M or F | RQD | AGE Form 2 | ENV | RTG | STRUC2 ID | AZM | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | SCL | Unit of RQD | %RQD | | | | | | | | L/F | | | | | | SI | CL | EP | CA | | | TE | PY | MT | MO |

GRAPHIC

| | FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | 544.50 | 563.00 | | 2c | | | | | | | | | FO | D60° | | C– | | | | | | | | | | |
| L | | | | | | | | | | | | | | | / | 0 0 | | | | | | | | | | |
| P | | | FINE NE SHEARS COMMON; | | | | | | | | | | | | | | | | | | | | | | | |
| N1 | 548.00 | 548.80 | | 2c | | | | | | | | | FI | 85° | | FK | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | | | COARSE BRECCIA ; NE SHEARS- MODERATE FAULT; | | | | | | | | | | | | | | | | | | | | | | | |
| N2 | 549.00 | 551.20 | | 1c | | | | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | | | FINE & MEDIUM | | | | | | | | | | | | | | | | | | | | | | | |
| N3 | 550.50 | 552.80 | | 1d | | | | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 553.00 | 563.00 | | 2c | | | | | | | | | FO | 50° | | C– | | | | | | | | | | |
| L | | | | | | | | | | | | | | | / | 0 0 | | | | | | | | | | |
| P | | | FINE NE SHEARS COMMON; | | | | | | | | | | | | | | | | | | | | | | | |
| N1 | 556.80 | 557.20 | | 2c | | | | | | | | | FZ | 70° | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | | | 10MM NE SHEARS- MODERATE FAULT; | | | | | | | | | | | | | | | | | | | | | | | |
| N2 | 559.80 | 559.60 | | 1d | | | | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | | | | | |

Z = Alpha Z; 0 = Alpha O; 1 = Alpha 1; C = Alpha C; 2 = Zero; 1 = One; 2 = Two

International Geosys ms Corporation | Geolc System | RECOVI Y FORM | Geoform

| Field | Value |
|---|---|
| KEY | DEN |
| FORMAT VERSION | 6 B 0 2 |
| SPEC | 0 2 |
| IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | W1002 |
| ID OF DRILLHOLE-TRAVERSE | 1-24-91 |
| PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| | WILLIAMS CREEK |
| MT/FT | FT |
| Upper Tier Geodata (RECOVERY) | %REC |
| Lower Tier Geodata (RQD) | % RQD |
| PAGE | 01 |
| OF | 03 |

| Line | KEY | FROM | TO | RECOVERY |
|---|---|---|---|---|
| 1 | / | 60 | 160 | 79 |
| 2 | L | 60 | 100 | 8 |
| 3 | / | 160 | 260 | 85 |
| 4 | L | 100 | 200 | 31 |
| 5 | / | 260 | 360 | 100 |
| 6 | L | 200 | 300 | 26 |
| 7 | / | 360 | 460 | 95 |
| 8 | L | 300 | 400 | 36 |
| 9 | / | 460 | 560 | 83 |
| 10 | L | 400 | 500 | 23 |
| 11 | / | 560 | 660 | 98 |
| 12 | L | 500 | 600 | 51 |
| 13 | / | 660 | 760 | 94 |
| 14 | L | 600 | 700 | 64 |
| 15 | / | 760 | 860 | 100 |
| 16 | L | 700 | 800 | 76 |
| 17 | / | 860 | 960 | 97 |
| 18 | L | 800 | 900 | 78 |
| 19 | / | 960 | 1060 | 94 |
| 20 | L | 900 | 1000 | 57 |
| 21 | / | 1060 | 1160 | 98 |
| 22 | L | 1000 | 1100 | 55 |
| 23 | / | 1160 | 1260 | 94 |
| 24 | L | 1100 | 1200 | 44 |
| 25 | / | 1260 | 1360 | 88 |
| 26 | L | 1200 | 1300 | 62 |
| 27 | / | 1360 | 1460 | 93 |
| 28 | L | 1300 | 1400 | 67 |
| 29 | / | 1460 | 1560 | 100 |
| 30 | L | 1400 | 1500 | 50 |
| 31 | / | 1560 | 1660 | 98 |
| 32 | L | 1500 | 1600 | 42 |
| 33 | / | 1660 | 1760 | 89 |
| 34 | L | 1600 | 1700 | 24 |
| 35 | / | 1760 | 1860 | 97 |
| 36 | L | 1700 | 1800 | 15 |
| 37 | / | 1860 | 1960 | 100 |
| 38 | L | 1800 | 1900 | 27 |

Z = Alpha Z · I or I = Alpha I · Ø = Alpha O · 7 = Seven · 2 = Two · 1 = One · 0 = Zero · 5 = Alpha S

International Geosys ns Corporation — Geolo ystem — **RECOVI Y FORM** — Geoform

| Key | Format Version | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|
| D E N | 6 B 0 2 0 2 | W1002 | 11-24-91 | 02 | 03 |

**P R J** WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — **WILLIAMS CREEK**

MT/FT: FT

Upper Tier Geodata: RECOVERY — %REC

Lower Tier Geodata: RQD — % RQD

| Key | From | To | Recovery / RQD |
|---|---|---|---|
| / | 1960 | 2060 | 95 |
| L | 1900 | 2000 | 42 |
| / | 2060 | 2160 | 92 |
| L | 2000 | 2100 | 25 |
| / | 2160 | 2260 | 100 |
| L | 2100 | 2200 | 77 |
| / | 2260 | 2340 | 97 |
| L | 2200 | 2300 | 64 |
| / | 2340 | 2440 | 98 |
| L | 2300 | 2400 | 56 |
| / | 2440 | 2540 | 100 |
| L | 2400 | 2500 | 90 |
| / | 2540 | 2640 | 96 |
| L | 2500 | 2600 | 78 |
| / | 2640 | 2740 | 99 |
| L | 2600 | 2700 | 74 |
| / | 2740 | 2840 | 100 |
| L | 2700 | 2800 | 88 |
| / | 2840 | 2950 | 94 |
| L | 2800 | 2900 | 80 |
| / | 2950 | 3050 | 96 |
| L | 2900 | 3000 | 84 |
| / | 3050 | 3150 | 100 |
| L | 3000 | 3100 | 62 |
| / | 3150 | 3250 | 99 |
| L | 3100 | 3200 | 64 |
| / | 3250 | 3350 | 100 |
| L | 3200 | 3300 | 88 |
| / | 3350 | 3450 | 99 |
| L | 3300 | 3400 | 64 |
| / | 3450 | 3560 | 91 |
| L | 3400 | 3500 | 65 |
| / | 3560 | 3660 | 98 |
| L | 3500 | 3600 | 85 |
| / | 3660 | 3760 | 96 |
| L | 3600 | 3700 | 63 |
| / | 3760 | 3860 | 99 |
| L | 3700 | 3740 | 85 |

Ø = Alpha O 1 or I = Alpha I Z = Alpha Z 7 = Seven 2 = Two 1 = One 0 = Zero S = Alpha S 5

International Geosys[illegible]s Corporation — Geolo[illegible]ystem — RECOVE[illegible]Y FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST YY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 68020 | | W1002 | 1- | 24 | -01 | | | | | | | | | | | | | | | | | | | 03 | 03 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| TURN C.P.T 000 = Collar | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | A Z M FROM SURVEY | V-ANG NEG=UP DOWN | MASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=BELOW SEA |
|---|---|---|---|---|---|---|---|---|---|---|
| S | | | FT | | | | | | | |

| FLAG | RECOVERY | $T_{MOD}$ -Mo- | ROCK | TYPHYVNC, TANS TAS | CALMAT CMAT | TEXTURES TX1 TX2 | GRAIN Fx O C-MP | FRACTURE COUNT 1 2 | Int Typ | Tr | STRUCT 1 ID | STRIKE AZM | Qz | DIP tenths | Qz | Bt | ALTERATION & MINERALIZATION (DEFAULT SUITES) CY | CB | BAQ | XS | PY | CP | GL | YY | SUMMARY FA A MS I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM | %REC | | | | | | | | | | | | | | | | | | | | | | | | |
| SIC L | Unit of Length F T M Z | Unit of Recov. | | | | | | | | | | | | | | | | | | | | | | | |

| FLAG | M or F | R Q D | AGE Form n | ENV | RTG | $T_{MOD}$ -Mo- | TMO | QMO | TX1 | TX2 | SA | Rn | Sn | R SM | R SI | Int Typ | Tr | STRUCT 2 ID | A Z M | Qz | DIP tenths | K F | M U | CL | EP | HE | How Amt | PR | MO | SL | How Amt | How? | How? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM | % RQD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIC L | Unit of R Q D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRAPHIC

A
H
F

Any Zone Flag = COMMaude, MAX of MIN or 001 – 999
If Flag = COM. then COL21-68 = SS No. groups
Flag = MIN, where no is any no. 01-99 as defined

RECOVERY — SS = Lambert Sextants

| | From | SS Y | To | SS Y | From | SS X | To | SS X | From | SS Z | To | SS Z | MASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| / | 3860 | 3960 | 93 | | |
| / | 3960 | 4060 | 92 | | |
| / | 4060 | 4160 | 90 | | |
| / | 4160 | 4260 | 90 | | |
| / | 4260 | 4360 | 90 | | |
| / | 4360 | 4440 | 93 | | |
| / | 4440 | 4490 | 90 | | |
| / | 4490 | 4580 | 95 | | |
| / | 4580 | 4660 | 78 | | |
| / | 4660 | 4760 | 90 | | |
| / | 4760 | 4860 | 98 | | |
| / | 4860 | 4960 | 100 | | |
| / | 4960 | 5060 | 88 | | |
| / | 5060 | 5160 | 80 | | |
| / | 5160 | 5260 | 98 | | |
| / | 5260 | 5360 | 100 | | |
| / | 5360 | 5460 | 98 | | |
| / | 5460 | 5560 | 88 | | |
| / | 5560 | 5660 | 96 | | |

1 2 3 4 5 6 7 — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

Z = Alpha Z
I or i = Alpha I
Ø = Alpha O
7 = Seven
2 = Two
1 = One
0 = Zero
S = Alpha S

International Geosy_ ms Corporation  Geolo System  SAM E FORM  Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILL HOLE TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 1 - | 24 | -01 | HQ | | | | | | | | OLYMPIC | 81 | 08 | 11 | | | | | GRID | 337° | C | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| Survey Data | TURN OFF 000=Collar | FROM Marks Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG=DOWN | HASH TOTAL N=1 E=2 TD=3 AZM=4 V-ANG=5 N=6 E=7 EL=8 NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 | 0 | | FT | 1566 | 247° | -50° | | | | |

| Upper Tier Geodata | FLAG | RECOVERY | ROCK | TYPIFYING MINS TMn | TMi | QAL MAT OMi | TEXTURE TX1 | TX2 | GRAIN F1 : C1 : C2 MP | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MC | XY | PY | CP | GL | YY | SUMMARY Fe2 | S AS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL | Unit of Recov | | | | | | | | | | | | | | | | | | | | | |
| | | Unit of Length F T M | | | | | | | | | | | | | | | | | | | | | |

| Lower Tier Geodata | FLAG | M or F | ROD | AGE Form A | ENV | RTG | Colour | TMi | OMi | TX1 | TX2 | St | Rn | In | Oc | N | In | L | STRUCT ID | AZM | DIP | M.O | CL | PP | HE | Nw Amt | PR | M.O | SL | Nw Amt | MCeq | MCeq |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL | Unit of ROD | | | | | | | | Cu % | | Cu gm/t | | | | Pb gm/t | | | | | | | | | | | | | | | |

GRAPHIC

A AHP — Any Zone Flag = Comp in, Max or Min or 001 – 999 — RECOVERY — Sample Interval — SAMPLE NO. — INT. — SS # From — To — HASH TOTAL

| | FROM | TO | SAMPLE NO. | INT. | SS 1 From | To | SS 2 From | To | SS 3 From | To |
|---|---|---|---|---|---|---|---|---|---|---|
| K H/W | | | | | | | | | | |
| S | 561 | | | 263 | -40 | | | | | |
| K F/W | | | | | | | | | | |
| A SAM | 3745 | 3845 | T 154005 | 100 | 0.03 | 0.02 | <0.002 | | 0.01 | |
| | 3845 | 3945 | T 154006 | 100 | 0.97 | 0.81 | 0.029 | | 0.16 | |
| | 3945 | 4045 | T 154007 | 95 | 1.02 | 0.78 | 0.022 | | 0.18 | |
| | 4045 | 4080 | T 154008 | 40 | 0.07 | 0.06 | <0.002 | | <0.01 | |
| | 4080 | 4180 | T 154009 | 100 | 0.25 | 0.22 | 0.002 | | 0.03 | |
| | 4180 | 4280 | T 154110 | 100 | 0.65 | 0.58 | 0.006 | | 0.06 | |
| | 4280 | 4380 | T 154111 | 100 | 2.49 | 1.57 | 0.018 | | 0.39 | |
| | 4380 | 4480 | T 154112 | 100 | 1.01 | 0.94 | 0.012 | | 0.12 | |
| | 4480 | 4580 | T 154113 | 100 | 1.00 | 0.92 | 0.010 | | 0.11 | |
| | 4580 | 4680 | T 154114 | 100 | 1.66 | 1.50 | 0.012 | | 0.20 | |
| | 4680 | 4735 | T 154115 | 55 | 2.09 | 1.93 | 0.096 | | 0.21 | |
| | 4735 | 4780 | T 154116 | 45 | 0.53 | 0.47 | 0.006 | | 0.02 | |
| | 4780 | 4880 | T 154117 | 100 | 0.59 | 0.49 | 0.004 | | 0.04 | |
| | 4880 | 4945 | T 154118 | 65 | 0.49 | 0.45 | 0.008 | | 0.05 | |
| | 4945 | 5075 | T 154119 | 130 | 1.92 | 1.65 | 0.032 | | 0.27 | |
| | 5075 | 5125 | T 154220 | 150 | 0.77 | 0.69 | <0.002 | | 0.01 | |
| | 5125 | 5225 | T 154221 | 100 | 1.23 | 1.17 | 0.026 | | 0.12 | |
| | 5225 | 5325 | T 154222 | 100 | 1.66 | 1.37 | 0.034 | | 0.20 | |
| | 5325 | 5445 | T 154223 | 120 | 1.20 | 1.07 | 0.030 | | 0.21 | |
| | 5445 | 5530 | T 154224 | 85 | 0.78 | 0.71 | 0.010 | | 0.08 | |
| | 5530 | 5630 | T 154225 | 100 | 0.11 | 0.09 | <0.002 | | 0.01 | |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

0 = Zero 1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six 7 = Seven 8 = Eight 9 = Nine A = Alpha 1 B = Alpha 2 C = Alpha 3 D = Alpha 4 E = Alpha 5 F = Alpha 6 Z = Alpha 7

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| Key | Flag | Format Version | Spec | Identity of Project | ID of Drillhole (Pre-fix / Type / Number) | Size of Core | Geologged By | Drilling By | Started (YY MM DD) | Completed (MM DD) | Co-ord System | Grid Azimuth | Page | Of |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 1 34-91 | HQ | MPP | OLYMPIC | 91 08 18 | 08 19 | GRID | 337. | 01 | 10 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | WILLIAMS CREEK | | | | | | |

| Key | MT/FT | Total Depth/Length | AZM | V-ANG | Northing | Easting | Elevation |
|---|---|---|---|---|---|---|---|
| S | FT | 256. | 247. | -50. | 600.2 | 185.7 | 2894.4 |

Upper Tier Geodata: NAM / SCL — Unit of Length FT; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI; MA AZ BO CP CC

Lower Tier Geodata: NAM / SCL — Unit of RQD; %RQD; L/F; SI CL EP CA; TE PY MT MO

A: FROM; TO; SAMPLE NO.; INT.; HASH TOTAL

| Key | Flag | From | To | Sample No. / %REC | Rock Type | S/F M/F (L/F) | Struct | Dip | LI | HE | BI | BO | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 0.0 | 6.00 | 0.0 | CASN | | | | | | | | |
| / | P | 6.00 | 10.00 | | 2d | | FO | 40° | | 00 | | | |
| L | | | | | | | | | / | o | o | D/ | |
| R | | | | | | | | | | | | | KF-AU < 10MM, RARE TO 40MM; WEAK WEA ON FRACTURES; |
| / | P | 10.00 | 20.00 | | 2d | 15 04 | FO | 60° | | o | | | |
| L | | | | | | 0.2 | | | / | o | o | D/ | |
| R | | | | | | | | | | | | | |
| / | P | 20.00 | 30.00 | | 2d | 26 09 | FO | 55° | | o | | | |
| L | | | | | | 03 | | | | /o | o | D/ | |
| R | | | | | | | | | | | | | BELOW 26FT DECREASING KF; |
| / | N1 | 28.50 | 30.00 | | 2c | | | | | | | | |
| R | | | | | | | | | | | | | WEAK WHITE PHENOCRYSTS; |
| / | P | 30.00 | 40.00 | | 2c | 15 10 | FO | 55° | | C. | | | |
| L | | | | | | 04 | | | / | o | C. | D/ | |
| R | | | | | | | | | | | | | WEAK WHITE PHENOCRYSTS; RARE KF PHENOCRYSTS; |
| / | N | 32.2 | 33.80 | | X3 | | D/ | 20° | | | | | |
| R | | | | | | | | | | | | | 03FT DYKE - MED-DARK GRAY, FINE GRAINED, VERY FINE MAFICS; |
| / | P | 40.00 | 50.00 | | 2c | 18 06 | FO | 50° | | C. | | | |
| L | | | | | | 02 | | | / | o | C. | D/ | |
| R | | | | | | | | | | | | | |
| / | N1 | 41.60 | 50.00 | | 2d | | | | | | | | |
| | | | | | | | | | | | | | KF PHENOCRYSTS TO 30MM; |
| / | P | 50.00 | 60.00 | | 2d | 11 07 | FO | 55° | | C. | | | |
| L | | | | | | 0.4 | | | / | o | C. | D/ | |
| R | | | | | | | | | | | | | WEAK TO FAIR KF PHENOCRYSTS; LOW CONTACT TRANSITIONAL; |
| / | N | 54.00 | 60.00 | | 2c | | | | | | | | |

Z = Alpha Z; I or i = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; 5 = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Key | Flag | Format Version | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|---|
| I | DEN | 680202 | W1002 | 134-91 | 02 | 10 |

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI HE BI | MA AZ BO CP CC

Lower Tier Geodata: %RQD | L/F | SI CL EP CA | TE PY MT MO

| Key | Flag | From | To | Entries |
|---|---|---|---|---|
| R | | | | 56-60 - WIDE SPACED <5MM CA-CB(?) - HE SHEARS WITH ENVELOPE OF |
| | | | | WEA; |
| P | | 60.00 | 63.50 | ZC — FO 30° — C· |
| / | | | | / 0C- — D/ |
| R | | | | WEAK WHITE PHENOCRYSTS |
| / | N1 | 62.8 | 63.50 | X3 |
| R | | | | DYKE - TOP CONTACT IRREGULAR |

International Geosystems Corporation — Geo[illegible]System — IN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DEN 6802 W1002 — 1/34 — 91 — PRJ WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK — PAGE 2 OF 10

Survey Data: S — TURN G>T 000 = Collar — FROM Mark Loc of Feature — TO — MT/FT FT — TOTAL DEPTH/LENGTH — AZM CLOCKWISE FROM TRUE N — V-ANG NEG IF DOWN — HASH TOTAL = F + T + TD + AZM + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS — NORTHING NEG IF SOUTH — EASTING NEG IF WEST — ELEVATION TIED TO SUB-SEA

Upper Tier Geodata: L — FLAG NAM SCL — Unit of Recov — Unit of Length FT 2 — RECOVERY %REC — ROCK TYPE — FOLIATION — S/F M/F — ALTERATION & MINERALIZATION DEFAULT SUITES KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: L — FLAG NAM SCL — M or F — Unit of RQD — RQD %RQD — L/F — SI CL EP CA TE PY MT MO

GRAPHIC

A — Any Zone Flag or Prop = COMPOSITE MAX or MIN or 001 — 999 — If Flag = ALT-48 = VEIN ID — Flag = Any no. 01-99 as set — RECOVERY — SAMPLE NO. — INT. — FROM — TO — HASH TOTAL

| | | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|---|
| /P | | 68.50 | 73.50 | | 2c | FO 60° C- / 0C° |
| LP | | | | BABBIT WEAK PHYLLIC ALTERATION INCREASED BY TOWARDS LOWER CONTACT | | |
| /N1 | | 63.50 | 69.50 | X3 | | |
| P | | | | ADDITIONAL AT TOP DUE PART SHEARED | | |
| /N2 | | 67.45 | 68.00 | X3 | | D/ 85 |
| | | | | WEAK UNIT 3' | | |
| /N3 | | 70.30 | 70.55 | X3 | | |
| P | | | | WEAK KF AND QUARTZ | | |
| R | H/W | 73.50 | | H/W NO 1 ZONE | | |
| /P | | 73.50 | 93.00 | 1f1 | | FO 80 / 10 / 00 CW C- D- |
| LP | | | | TE-LENSES & DISSEMINATED BABB REPLACING CP IN 1 & 2 WEAKENS TO LOWER CONTACT; BABB IN ARROW BANDS ONLY 1g NE STRONGEST UP ERIC | | |
| | | 73.50 | 73.80 | ROCK STRONGER WEAT HERED | | |
| /N1 | | 75.00 | 77.80 | 21c | | CW 0 D- |
| P | | | | 0.2 FT PANELS LENSES AND PODS - LIGHT COLORED | | |
| /N2 | | 78.50 | 79.50 | 1c | | CW D- |
| LP | | | | BOTTOM 0.2 FT WEA - FAULT? | | |
| /N3 | | 80.40 | 82.70 | 21c | | |
| LP | | | | BANDS - 2.03 FT - LIGHT COLORED - UNIT 2? | | |

1 = Alpha 2 = Alpha Z
Ø = Alpha O
3 = Seven
2 = Two
1 = One
Ø = Zero
5 = Alpha S

International Geos- -tems Corporation — Gec- -g System — [illegible] -IN FORM — Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|
| D E N | 6 B 0 2 | 0 2 | W1002 | / 34-9 / | 04 | 10 |

| P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | DRILLING BY: WILLIAMS CREEK |
|---|---|---|

Survey Data: MT/FT: FT

Upper Tier Geodata: Unit of Recov. F T – 2; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD; L/F; SI CL EP CA TE PY MT MO

A: FROM — TO — SAMPLE NO. — INT.

| Key | Flag | FROM | TO | Sample / Int. | Other entries | Comments |
|---|---|---|---|---|---|---|
| / | P | 83.00 | 90.00 | 1f | FO; 70°; /; 0; CC; 0 | |
| L | | | | | 0 0; C* | |
| R | | | | | | 1f – LIGHT [illegible] AND [illegible] DARK COLOUR INTERBANDED MIN'Z TRENDS WEAKENS FROM TOP TO BOT OF SECTION |
| / | N1 | 84.90 | 85.25 | X 1c | C- ; C- | |
| / | N2 | 88.40 | 88.50 | X 1c | | |
| / | P | 90.00 | 97.50 | | | |
| L | | | | | | |
| R | | | | | | |
| / | N1 | 90.00 | 90.90 | X 1a | /; C- | |
| L | | | | | C- | |
| R | | | | | | HB TO BI – NOTICED ALTERATION |
| / | N2 | 90.90 | 92.70 | X 1f | /; D>; 0 | |
| L | | | | | D> | |
| R | | | | | | DISSEMINATED TE & MO 7 CLUSTS |
| / | N3 | 92.70 | 93.60 | X 1c | /; C>; D | |
| L | | | | | C> | |
| R | | | | | | ALTERED UNIT "2" |
| / | N4 | 93.60 | 94.20 | X 1g | 0; D+ | |
| L | | | | | D+ | |
| R | | | | | | HEADY FINE HBI; NOTICEABLE WEAK MIN'Z; |
| / | N5 | 94.20 | 95.20 | X 1f | C> | |
| L | | | | | C> | |
| R | | | | | | |

Z = Alpha Z; I or i = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geos' tems Corporation — Gec' g System — ' \IN FORM — Geoform

| Field | Value |
|---|---|
| Format version | 6 8 0 2 0 2 |
| Identity of project | W1002 |
| ID of drillhole | 134-91 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| Page | 05 of 10 |
| MT/FT | FT |
| Upper tier geodata | %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC |
| Lower tier geodata | %RQD, L/F, SI, CL, EP, ck, TE, PY, MT, MO |

| Key | Flag | From | To | Sample No. / Int. / Rock / Remarks | Struct | Dip | Alteration | Summary |
|---|---|---|---|---|---|---|---|---|
| / | N6 | 95.20 | 96.70 | X 1e | | | | c> |
| L | | | | | | | | c> |
| R | | | | FAIR LIOPH? FAULT? POWDER GRADED AND INCREASED BI? | | | | |
| / | N7 | 96.70 | 97.20 | 1e | | | / / | o |
| L | | | | | | | | o |
| / | N8 | 97.20 | 97.50 | V1e | | | | c> |
| L | | | | | | | | c> |
| R | | | | | | | | |
| K | F/W | 97.50 | | F/W UPPER NO 1 ZONE? | | | | |
| / | P | 97.50 | 106.00 | 1e | Fo | 60° | / o / | c− |
| L | | | | | | | o o o | c− |
| R | | | | DISSEMINATED TC ONLY NEAR TOP CONTACT M/N/Z TRANSPORTED? UNIT 1e-2a??, A~ 10% KF PHENOCRYSTS SEEN, TE > MC; | | | | |
| / | N1 | 100.90 | 101.80 | Bif | | | | c− |
| L | | | | | | | | |
| R | | | | HIGHLY WEA 100.80 - 102.40 - CRUMBLY CORE | | | | |
| / | N2 | 101.80 | 103.00 | | | | | c+ |
| R | | | | HIGHLY WEATHERED | | | | |
| / | P | 106.00 | 114.50 | 1e | | | / o / | c· |
| L | | | | | | | o o o | FC |
| R | | | | TO 110 STRONG COATING BLACK LI-TE ON FRACTURES- | | | | |
| / | N1 | 110.90 | 114.50 | X 1e | | | / CY P2 | o ? |
| L | | | | | | | | |
| R | | | | UPPER CONTACT TRANSITIONAL - INCREASED BI, TO BOTTOM SECTION INCREASED PERVASIVE WEATHERING, GENERALLY OVERALL WEAK BIOTITE | | | | |

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data

| key | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID or DRILLHOLE-TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | | | 134-91 | | | | | | | | | | | | | | | | | | | 06 | 10 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

Survey Data

| S | TURN G.P.T. GOOD to Collar | FROM Marks Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG | NEG IS DOWN | HASH TOTAL = F + T + TD + AZM + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG IS SOUTH | EASTING | NEG IS WEST | ELEVATION | NEG IS SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | | | | | | |

Upper Tier Geodata

| / | FLAG NAM SCL | Unit of Recov. | RECOVERY Twgo Mix | ROCK TYPE | TYPE/TEXT MIN1 | MIN2 | CALMAT | TEXTURES TX1 | TX2 | Pt | Gr | C | MP | FRACTURE COUNT 1 | 2 | INT | T1 | STRUC 1 | STRIKE AZM | DIP to Right | DIP to Left | OZ | UI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | SUMMARY Fa | Al | MC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | | Unit of Length F T : 2 | %REC | | | | | FOLIATION | | | | | | S/F | M/F | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC |

Lower Tier Geodata

| L | FLAG NAM SCL | M or F | ROD AGE Form a | ENV | RTQ | Fe Color | TM1 | QM1 | TX1 | TX2 | Su | Rx | Sr | Oc | R | IN | B | SI | INT 1 | T2 | STRUC 2 | STRIKE AZM | DIP to Right | DIP to Left | XJ | MU | ALTERATION & MINERALIZATION DEFAULT SUITES CL | SP | HE | Hw Amt | PR | MO | SL | Hw Amt | Hem2 | Hem1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | | Unit of R Q D %RQD | | | | | | | | | | | | | L/F | | | | | | | | | SI | CL | EP | CA | | | TE | PY | MT | MO | | | |

GRAPHIC

A — Any Zone Flag or Flex = COMposite: MAX of MIN or 001 – 999; If Flag = 21-68 = SS no. or Flag = 69-99 as defined; any no. 01-99 as defined

| / | FLAG | FROM | TO | RECOVERY % or Sample Seq. No. | SAMPLE NO. | INT. | From | To | From | To | From | To | From | To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 114.50 | 121.00 | | Sp | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | WEAK - FAIR BT | | | | | | | | | | |
| / | NL | 116.40 | 121.00 | | B1c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | HANGING WEAK STRONG MINOR MC AT TOP AND DECREASES TO BOTTOM; OVERALL BIOTITE CONTENT BELOW AVERAGE | | | | | | | | | | |
| / | P | 121.40 | 131.50 | | 2c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | OVERALL WEAK BT BUT NARROW IRREGULAR BANDS OF FINER GRAINED BT ROCK; MORE TYPICAL OF UNIT 2c WEAK MIN 2-KSP | | | | | | | | | | |
| | NL | 125.40 | 126.80 | | X2c | | | | | | | | | | |
| | | | | | INCREASED MC AND TE | | | | | | | | | | |
| / | NL | 127.80 | 130.10 | | 2c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | INCREASED BT - MORE TYPICAL 2c; NOT INCREASE INCREASE MIN 2 | | | | | | | | | | |
| / | NA | 130.10 | 131.50 | | 2c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| / | P | 131.50 | 135.50 | | 2c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | WEAKER BT THAN NORMAL | | | | | | | | | | |
| / | NL | 134.50 | 138.50 | | 3 | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | WEAK UNIT 3, BT BLACK MC & TE DUE FR; 1% BT STRINGING FOR IN UNIT 3 | | | | | | | | | | |

Z = Alpha Z  Y = Alpha Y  Ø = Alpha O  X = Alpha X  P = Seven  Z = Two  1 = One  0 = Zero  $ = Alpha $

International Geosystems Corporation — Geocoding System — FREE FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: FLAG DEN; FORMAT VERSION 6802; IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) W1002; ID OF DRILLHOLE/TRAVERSE PRE-FIX TYPE NUMBER 134-91; PAGE 07 OF 10

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: TORN C PT 000=Collar; FROM Marks Loc of Feature; TO; MT/FT FT; TOTAL DEPTH/LENGTH; AZM; SLOPE/AXIS FROM TRUE N; V-ANG NEG=DOWN; HASH TOTAL = sum of FROM + AZM + V-ANG + TO + EL, NOT INCLUDING ANY BLANK FIELDS; NORTHING NEG=SOUTH; EASTING NEG=WEST; ELEVATION NEG=SUB-SEA

Upper Tier Geodata: FLAG NAM SCL; Unit of Recov; Unit of Length FT = 2; RECOVERY; ROCK TYPE %REC; TYPIFYING MINS; SEC MAT; TEXTURES; GRAIN; FRACTURE COUNT; STRUCT ID; STRIKE AZM; DIP to Azm; ALTERATION & MINERALIZATION DEFAULT SUITES; SUMMARY

Lower Tier Geodata: FLAG NAM SCL; M or F; Unit of ROD; ROD %RQD; AGE Form n; ENV; RTG; TXT; STRUCT ID; AZM; DIP to Azm; ALTERATION & MINERALIZATION DEFAULT SUITES

GRAPHIC

A: FROM — TO — SAMPLE NO. — INT. — HASH TOTAL

| | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|
| /N2 | 134.20 | 135.10 | 03 | | FO 75° C= E= |
| R | | | WEAK UNIT 3; WEAK MIN 2 | | |
| /P | 135.00 | 145.00 | 2a | | FO 70° 10 0 / 0 C? C? ? ? |
| P | | | MC AND TE-INS TO BUT LESS THAN FRACTURED TRANSPORTED DOBSIE BEDS TURNED BY 12c-ALTERNATING LIGHT AND DARKER UNKNOWN BANDS | | |
| /P | 145.00 | 153.50 | 1c | | FO 70° 1 0 / 0 C? C? D? D? |
| R | | | DECREASING BT TO LOWER CONTACT DUE ALL DEPOSITIONAL BANDS LOST UNIT 1a; MC 2 TE INSITU | | |
| /N1 | 149.70 | 152.50 | 2 1c | | C* C* |
| P | | | UNIT 1c? LOWER CONTACT TRANSITIONAL AT TOP TEXTURE; | | FINE CATACLASTIC |
| /N2 | 153.30 | 153.50 | 1c? | | FO ? 0 CY 0 PS |
| R | | | HIGHLY WEA-TOP OF FAULT ZONE ROCK TO CLAY | | |
| /P | 153.50 | | | | |
| R | | | | | |
| /N1 | 153.50 | 156.40 | XF2 | | D CM CC 10 V3 PR CC |
| R | | | HIGHLY SHEARED; CH-CA ALTERED; 155B-156 AD-CB (SD?) VEINS; | | |
| /N2 | 156.40 | 160.00 | X 1c | | FO D20° / D* / 10 P2 C= |
| P | | | ALTERED DIRTY GREEN-PERVASIVE & VEINLET CA-PERVASIVE & VEINLET CA-PERVASIVE & VEINLET CA; SHEARED-02 AND 06 FO? | | |

1 = One, 2 = Two, 3 = Seven, Ø = Alpha O, 1 = Alpha I, 2 = Alpha Z, 5 = Alpha S, 0 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT | ID of DRILLHOLE | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 | 0 2 | W1002 | 134-97 | 08 | 10 |

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LT, HE, BI, MA, AZ, BO, CP, CC

Lower Tier Geodata: %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO

Assay: FROM, TO, SAMPLE NO., INT.

| Line | Key | Flag | From | To | Rock type | Struct./Dip | Alteration & mineralization |
|---|---|---|---|---|---|---|---|
| 1 | / | N | 160.00 | 161.00 | X 1C | | O, CY, O |
| 2 | L | | | | | | 1, O P3, P3, C- |
| 3 | R | | | | | | |
| 5 | / | P | 161.00 | 171.60 | 2A | FO 60° | DC 1/ |
| 6 | L | | | | | | / OF. |
| 7 | R | | | | | | |
| 9 | / | N1 | 161.50 | 162.30 | 9 1C | | O, O, O |
| 10 | L | | | | | | O |
| 11 | R | | | | WEAK 1C - GRADES 1C TO UNIT 1F; | | |
| 13 | / | N2 | 162.30 | 162.90 | X 3 | D/ | |
| 14 | R | | | | | | |
| 17 | / | N3 | 166.00 | 171.00 | 2C | | |
| 18 | R | | | | CONTACT TRANSITIONAL, INCREASING HB TO GREATER THAN EF | | |
| 19 | | | | | WEAK WHITE PHENOCRYSTS; | | |

HOLE CONTINUES

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Flag | Format Version | Spec | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|---|
| D E N | 6 8 0 2 0 . 2 | | W1002 | 134-91 | 09 | 10 |

**P R J:** WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

MT/FT: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | CA | TE | PY | MT | MO

A: FROM | TO | SAMPLE NO. | INT.

| Key | Flag | From | To | Rock Type | Fracture | Struct | Dip | Col. 59–60 | Alteration | Col. 71–72 | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 171.00 | 180.00 | 2C | 1705 | FO | | | O | | |
| | L | | | | 02 | | | / | OC- | D/ | |
| | R | | | | | | | | | | WEAK WHITE PHENOCRYSTS; WEAK WEA ON FRACTURES; |
| / | N | 173.40 | 173.50 | X3 | | D/ | 45° | | | | |
| / | P | 180.00 | 190.00 | | 1217 | | | | F° | | |
| | L | | | | 06 | | | / | OC- | D/ | |
| | R | | | | | | | | | | CA-DUST-CRUST ON WEA FRACTURES |
| / | P | 190.00 | 200.00 | 2C | 0610 | FO | 45° | | C· | | |
| | L | | | | 04 | | | | OC | D/ | |
| | R | | | | | | | | | | NO PHENOCRYSTS; BLEB QZ; |
| / | R | 200.00 | 210.00 | 2C | 0805 | FO | 45° | | F- | | |
| | L | | | | 04 | | | / | OC- | D/ | |
| | R | | | | | | | | | | WEAK WHITE PHENOCRYSTS; |
| | K | | | | | | | | | | 1/2-5 FT WEAK AZMH HE, CA CB(?) SHEARS 15-25; PINK (HE) ENVELOPE; |
| / | N1 | 201.10 | 201.50 | X3 | | D/ | 45° | | | | |
| | R | | | | | | | | | | PARALLEL FO?; FINE GRAINED, MED-DARK GRAY, COURSE-FINE MAFICS; |
| / | P | 210.00 | 220.00 | 2C | 0907 | FO | 50° | | F- | | |
| | L | | | | 03 | | | / | OC· | D/ | |
| | R | | | | | | | | | | RARE WHITE PHENOCRYSTS; |
| | R | | | | | | | | | | 1/2FT WEAK AZMH HE CA SHEARS @35°; |
| / | P | 220.00 | 230.00 | 2C | 1206 | FO | 50° | | C· | | |
| | L | | | | 03 | | | / | OC- | D/ | |
| | R | | | | | | | | | | WEAK-IN PLACES FAIR WHITE PHENOCRYSTS; |
| / | N1 | 225.30 | 230.00 | X3 | | D/ | 20° | | | | |
| | R | | | | | | | | | | BOTTOM CONTACT-SHEAR TOWARDS BOTTOM STRONG FRACTURES; |
| | R | | | | | | | | | | WEAK KF AND QZ PEGMATITE; 1% CL BY MAFICS; |

# International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Format version | Spec | Identity of project | ID of drillhole | Page | Of |
|---|---|---|---|---|---|
| 6 8 0 2 | 0 2 | W1002 | 134-97 | 10 | 10 |

**WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

Units: FT

Upper tier geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower tier geodata: %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO

| Key | Flag | From | To | Sample no. / Int. / Rock type | Fracture | Struct | Dip | Alteration | Col. 71–72 | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 230.00 | 240.00 | 2c | 09 05 | FO | 55° | C• | | |
| L | | | | | 04 | | | / •C• | D/ | |
| R | | | | | | | | | | FAIR WHITE PHENOCRYSTS <20MM; |
| / | N1 | 230.00 | 234.20 | FZ | | FZ | 10° | C- CM | | |
| L | | | | | | | | 0 •FD P3 | | |
| R | | | | | | | | | | MAIN BREAK 231A AND 232A - GOUGY (WEA)-5MM CH HE BREAKS IN A |
| R | | | | | | | | | | PROPYLITIC ALTERED ENVELOPE - EX TO GREEN CH, AND CA FILLED FRACT- |
| R | | | | | | | | | | URES; CONTACTS TRANSITIONAL |
| / | P | 240.00 | 250.00 | 2a | 12 05 | FO | 60° | C• | | |
| L | | | | | 03 | | | / •C• | D/ | |
| R | | | | | | | | | | WEAK WHITE PHENOCRYSTS; |
| / | N1 | 242.80 | 244.80 | X3 | | D/ | 30° | | | |
| R | | | | | | | | | | XCUTS FO; STRONG KF AND QZ REPLACING MEDIUM GRAIN, FINE GRAINED |
| | | | | | | | | | | WITH FINE DEFINED MAFICS-UNIT 5 |
| / | N2 | 246.20 | 246.30 | X3 | | D/ | 30° | | | |
| / | N3 | 247.20 | 247.70 | A5 | | D/ | 30° | | | |
| R | | | | | | | | | | TWO-DIFT DYKES-ONE PARALLEL FO AND OTHER XCUT FO; UNIT 5-MINOR |
| | | | | | | | | | | FINE MAFICS; |
| / | N4 | 248.00 | 250.00 | 51c | | | | | | |
| R | | | | | | | | | | NO MINERALIZATION; |
| / | P | 250.00 | 256.00 | 2c | | FO | 55° | C• | | |
| L | | | | | | | | / •C• | D/ | |
| R | | | | | | | | | | WEAK WHITE OCCASIONAL KF(?) PHENOCRYST; |
| / | N1 | 250.00 | 250.20 | X1c | | | | | | |
| / | N2 | 250.60 | 262.50 | X5 | | D/ | 20° | | | |
| R | | | | | | | | | | FINE GRAINED, MED-DARK GRAY WITH COLOR FINE MAFICS; 30% DYKES |
| | | | | | | | | | | UNIT 3 |
| K | END | 256.00 | | | | | | | | |

81-130

International Geosy ms Corporation — Geolo system — RECOV .Y FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | DRILLHOLE/TRAVERSE PREFIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | LOG/DECKED YY | MM | DD | BY | ASSY YY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 1 | - | 34 | - 0 | | | | | | | | | | | | | | | | | | 1 | 1 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN OPT | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM | DIP FROM TRAVERSE | V-ANG | NEG IS DOWN | HASH TOTAL S P L T – I D + AZM – V-ANG + N E – S NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG IS SOUTH | EASTING | NEG IS WEST | ELEVATION | NEG IS BELOW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 = Collar | | | FT | | | | | | | | | | | | |
| S | | | | | | | | | | | | | | | | |

| | FLAG | | RECOVERY | ROCK | TYPE/VEIN MINS | GAL/MAT | TEXTURES | GRAIN | FRACTURE | STRUCT ID | STRIKE AZM | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Tier Geodata | NAM SCL | Unit of Recov. Unit of Length | %REC | | | | | | | | | | |
| Lower Tier Geodata | NAM SCL | M or F Unit of RQD | RQD ACE Formula | | ENV | RTG | | | | | | | |

GRAPHIC

A — Any Zone Flag or Flag = COMPOSITE, MAX of MIN or 001 – 999
H — Flag = COM then Col 21-68 = 5 hex. groups
F — Flag = Wxx, where xx = any no. 01-99 as defined

RECOVERY — From — To — Length — From — To — Length — From — To — Length — From — To — Length — MASH TOTAL

| | | | |
|---|---|---|---|
| 60 | 160 | 75 | |
| 160 | 260 | 96 | |
| 260 | 360 | 100 | |
| 360 | 460 | 100 | |
| 460 | 560 | 96 | |
| 560 | 660 | 90 | |
| 660 | 760 | 94 | |
| 760 | 860 | 100 | |
| 860 | 960 | 100 | |
| 960 | 1060 | 100 | |
| 1060 | 1160 | 94 | |
| 1160 | 1260 | 96 | |
| 1260 | 1360 | 100 | |
| 1360 | 1460 | 100 | |
| 1460 | 1560 | 100 | |
| 1560 | 1660 | 100 | |
| 1660 | 1760 | 100 | |
| 1760 | 1860 | 99 | |
| 1860 | 1960 | 100 | |
| 1960 | 2060 | 100 | |
| 2060 | 2160 | 99 | |
| 2160 | 2260 | 100 | |
| 2260 | 2360 | 100 | |
| 2360 | 2460 | 100 | |
| 2460 | 2560 | 97 | |

Z = Alpha Z
I or i = Alpha I
Ø = Alpha O
7 = Seven
2 = Two
1 = One
0 = Zero
S = Alpha S

International Geos[illegible]ms Corporation — Geo[illegible] System — RECOV[illegible]Y FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 | 0 2 | W1002 | [illegible] | 01 | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | WILLIAMS CREEK | | |

Survey Data: MT/FT: FT

Upper Tier Geodata: RECOVERY — %REC

Lower Tier Geodata: RQD — %RQD

| KEY | FROM | TO | %RQD | Remarks |
|---|---|---|---|---|
| L | 10 | 20 | 26 | |
| L | 20 | 30 | 17 | |
| L | 30 | 40 | 17 | |
| L | 40 | 50 | 42 | |
| L | 50 | 60 | 34 | 6[illegible] ON [illegible] S[illegible] [illegible] 171 FEET |
| L | 171 | 180 | 21 | |
| L | 180 | 190 | 35 | |
| L | 190 | 200 | 50 | |
| L | 200 | 210 | 38 | |
| L | 210 | 220 | 34 | |
| L | 220 | 230 | 37 | |
| L | 230 | 240 | 48 | |
| L | 240 | 250 | 47 | |

0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or I = Alpha I Z = Alpha Z S = Alpha S

International Geosystems Corporation — Geolog System — SAMPLE FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | Y | GEOLOGGED MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | -34 | -01 | HQ | | | | | | | | OLYMPIC | 01 | 08 | 30 | 08 | 19 | | | GRID | 327 | | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| S | TURN G PT 000=Collar | FROM Metric Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IF DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IF SOUTH | EASTING NEG IF WEST | ELEVATION NEG IF SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 | 0. | | FT | 256. | 247. | -50. | | | | |

| FLAG | RECOVERY | ROCK | TYPIFYING MINS TXM | FMS | GAL/MAT QZM | TEXTURES TX1 | TX2 | GRAIN Fr | C | MP | FRACTURE COUNT 1 | 2 | STRUCT ID | STRUCT STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT VALUES CY | CB | MC | XX | PY | CP | CL | VY | SUMMARY Fe | Al | MZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM SCL | Unit of Recov. 1 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| FLAG | MRF | ROD | AGE Event # | ENV | RTO | Caliper | TXM | QZM | TX1 | TX2 | Sv | Bn | Sn | OC | Fr | M | S | Tx1 | Tx2 | STRUCT ID | STRUCT AZM | DIP To Right | XF | MU | CL | EP | HE | Hw Am | PR | MO | SL | Hw Amt | Hw% | Hw% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM SCL | Unit of RQD | | | | | | | | Cu% | Cu gsa | Fra | gN/T | | | Fg | gN/T | | | | | | | | | | | | | | | | | | |

GRAPHIC

A — Any Zone Plus or Alpha in COMobile, MAX or MIN or 001 – 999 — H Plus Alpha in 21-48 = 55 No. groups — H Plus Alpha in 01-99 as defined

| FROM | TO | SAMPLE NO. | INT. | RECOVERY | Sample Weight | Caliper | From | To | From | To | From | To | From | To | WASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K H/W | | | | | | | | | | | | | | | |
| S 150 | | | | | | 249 | -50 | | | | | | | | |
| K F/W | | | | | | | | | | | | | | | |
| A SAM 635 | 735 | T155100 | | 100 | | | | | | | | | | | |
| 735 | 830 | T155200 | | 95 | | | | | | | | | | | |
| 830 | 900 | T155210 | | 70 | | | | | | | | | | | |
| 900 | 975 | T155222 | | 175 | | | | | | | | | | | |
| 975 | 1060 | T155235 | | 85 | | | | | | | | | | | |
| 1060 | 1145 | T155244 | | 85 | | | | | | | | | | | |
| 1145 | 1210 | T155255 | | 65 | | | | | | | | | | | |
| 1210 | 1315 | T155266 | | 105 | | | | | | | | | | | |
| 1315 | 1350 | T155277 | | 35 | | | | | | | | | | | |
| 1350 | 1450 | T155288 | | 100 | | | | | | | | | | | |
| 1450 | 1535 | T155299 | | 85 | | | | | | | | | | | |
| 1535 | 1610 | T155301 | | 75 | | | | | | | | | | | |
| 1610 | 1710 | T155311 | | 100 | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.03 | 0.02 | <0.002 | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.68 | 1.51 | <0.002 | | 0.17 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.74 | 1.48 | 0.012 | | 0.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.27 | 2.05 | 0.008 | | 0.14 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 0.64 | 0.004 | | 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.52 | 0.38 | <0.002 | | 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.37 | 2.30 | 0.010 | | 0.14 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.82 | 0.75 | 0.006 | | 0.06 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.70 | 0.67 | <0.002 | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.03 | 1.95 | 0.010 | | 0.11 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.52 | 1.42 | 0.010 | | 0.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.18 | 0.15 | <0.002 | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.04 | 0.03 | <0.002 | | <0.01 | | | | | | | | | | | | | | | | | | | | | | | |

Z = Alpha Z — Y = Alpha Y — Ø = Alpha Ø — 9 = Nine — 8 = Eight — 7 = Seven — 6 = Six — 5 = Alpha S — 4 = Four — 3 = Three — 2 = Two — 1 = One — 0 = Zero

International Geosystems Corporation — Geolog System — **MAIN FORM** — Geoform

Identity Data: W1002 | 135-97 | MPP | OLYMPIC 91 08 19 08 20 | GRID | 337. | 01 | 14

WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK

Survey Data: FT | 316. | 247. | -50. | 600.1 | 317.1 | 2873.4

| FROM | TO | FLAG | ROCK TYPE | FOLIATION | STRUC1 ID | STRUC1 AZM | DIP | ALTERATION & MINERALIZATION | SUMMARY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 6.00 | /P | CASING | | | | | | | |
| 6.00 | 10.00 | /P | 2c? | | FO | 50° | | | | LIGHT COLORED, 2c? ~1-2% MAFICS, SEE COMMENTS BELOW |
| 6.00 | 7.00 | /N | 2b | | | | | | | WD SILT? |
| 10.00 | 20.00 | /P | 2c? | | FO | 60° | | | | LIGHT COLORED, THIS LOOKS MORE LIKE UNIT 5 AS CONTACT WITH 2b ARE NOT SUB PARALLEL TO FOLIATION AND PATCHES OF 2b OCCUR WITH 2c |
| 10.80 | 12.00 | /N1 | | | | | | | | KF FLOODING ASSOCIATED WITH EP |
| 14.80 | 15.50 | /N2 | 2b | | D1 | 40° | | | | UPPER CONTACT TRANSITIONAL |
| 15.50 | 18.30 | /N3 | 2b | | C1 | 15° E= | | | | LOWER CONTACT WITH LIGHT COLORED 2c! 15° WEAK FRACTURE-ENVELOPE KF ASSOCIATED WITH EP; 2b - BELOW NORMAL MAFICS; |
| 19.85 | 20.00 | /N4 | 2b | | | | | | | |
| 20.00 | 30.00 | /P | 2b | | FO | 45° E> | | | | WEAK FRACTURE-ENVELOPE K10MM WITH EP; UNIT 2b - BELOW NORMAL MAFICS; |
| 21.40 | 21.80 | /N1 | | | D1 | 50° | | | | LIGHT FO; FINE GRAINED 3% FINE MAFICS, OCCASIONAL 4-10MM WHITE PINEMOCRYST |

Z = Alpha Z | Y or ! = Alpha ! | Ø = Alpha Ø | 7 = Seven | 2 = Two | 1 = One | Ø = Zero | $ = Alpha $

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Field | Value |
|---|---|
| Flag | D E N |
| Format version | 6 8 0 2 |
| Spec | 0 2 |
| Identity of project | W1002 |
| ID of drillhole | 135-91 |
| Page | 02 of 14 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| MT/FT | FT |

Upper tier geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LT, HE, BI, MA, AZ, BO, CP, CC

Lower tier geodata: %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO

| Key | Flag | From | To | Sample no. / Rock | Fracture | Struct | Dip | Other |
|---|---|---|---|---|---|---|---|---|
| / | N2 | 23.40 | 24.00 | X3 | | D/ | 75° | |
| R | | | | STRONG KF AND QZ; | | | | |
| / | N3 | 24.85 | 28.00 | 8 2c? | | D/ | 55° | |
| L | | | | | | | | |
| R | | | | UNIT 2c LIGHT COLORED, FINE GRAINED - LOOKS LIKE UNIT 5 AS 20% PATCHES OF 2b APLITIZED 2b; WEAK KF+EP ENVELOPES; THIS SIMILAR TO 2c SEEN SINCE START OF DRILLHOLE | | | | |
| / | P | 30.00 | 40.00 | 2b | 11 06 | FO | 45 EC | |
| L | | | | | 0.1 | | | / F · C - |
| R | | | | TYPICAL 2b | | | | |
| / | N1 | 30.20 | 33.10 | 95 | | C/ | U20° | |
| L | | | | | | C/ | U20° | |
| R | | | | PREVIOUSLY CALLED THIS LIGHT COLORED 2c; UNIT 5 LIGHT COLORED <1% CL CX MAFICS, NOTE REMNANTS OF UNIT 2b; 30.9 - 31.1 AND 0.3 FT ON LOWER CONTACT - UNIT 3 - IN PLACES SHEARED LOOK; | | | | |
| / | N2 | 34.00 | 35.30 | X5 | | | | |
| R | | | | TYPICAL | | D/ | U30° | |
| / | N3 | | | 6 1a | | | | |
| R | | | | LENSES HB? > BI | | | | |
| / | N4 | 38.70 | 39.60 | X5 | | C | U10° | |
| L | | | | | | | D70° | |
| R | | | | 1-2% MAFICS; BOTTOM 0.2 FT SHEARED UNIT 3 | | | | |
| / | P | 40.00 | 50.00 | 26 | 1.30 5 | FO | | FD 0 |
| L | | | | | 6.2 | | | F - C - |
| R | | | | IN PLACES STRONG BLEBS <0.2 FT MAFICS; | | | | |
| / | N1 | 49.90 | 49.95 | | | F/ | 45° | |
| R | | | | 10 MM CA SHEAR - WEAK FAULT; MINOR EP? - SHEARED; | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: PROJECT W1002 — WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK — DRILL HOLE 1/35-91 — PAGE 03 OF 14

Survey Data: MT/FT FT

| FROM | TO | RECOVERY % | ROCK TYPE | FOLIATION S/F M/F | FRACTURE COUNT | STRUCT. ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION CY | CB | MG | XX | PY | CP | GL | YY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50.00 | 60.00 | | 2b | | 21 0.6 | FO | | D40 E+ | | | | | | | | | | |
| | | | | | 01 | | | | KF | LT | HE | BI | | MA | AZ | BO | CP | CC |
| 50.15 | 52.50 | X | | | | D/ | | 10° | | | | | | | | | | |
| 55.55 | 56.60 | 95 | | | | | | | | | | | | | | | | |
| 56.60 | 56.95 | X | 1d | | | | | | | | | | | | | | | |
| 60.00 | 70.00 | | 2b | | 0913 | FO | | D60 E+ | | | | | | | | | | |
| | | | | | 02 | | | | | | | | | | | | | |
| 66.05 | 66.10 | X | 3 | | | D/ | | U40° | | | | | | | | | | |
| 67.30 | 66.50 | | 2c | | | C/ | | D05° | | | | | | | | | | |
| | | | | | | C/ | | D75° | | | | | | | | | | |
| 68.95 | 69.10 | | 3 | | | D/ | | D50° | | | | | | | | | | |
| 69.20 | 69.30 | | 3 | | | D/ | | U50° | | | | | | | | | | |
| 70.00 | 80.00 | | 2b | | 1509 | FO | | D45 E+ | | | | | | | | | | |
| | | | | | 00 | | | | | | | | | | | | | |
| 70.50 | 76.60 | X | 3 | | | D/ | | U65° | | | | | | | | | | |
| 78.00 | 75.40 | | 4S | | | D/ | | 65° | | | | | | | | | | |

FROM
/P 50.00 60.00 2b
L
R TYPICAL - KAPE WHITE PHENOCRYSTS - TRANSITIONAL
/N1 50.15 52.50 X D/ 10°
R 1-2% CHLOPITE ON MAFICS. EP FRACTURE ON LOWER CONTACT
R KF RELATED TO EP FRACTURES
/N2 55.55 56.60 95
P VAGUE CONTACTS. LIGHT COLORED FINE GRAINED AT TOP AND MEDIUM
COLORED, MEDIUM GRAINED AT BOTTOM WITH 20mm BAND OF UNIT 1d
/N3 56.60 56.95 X 1d
/P 60.00 70.00 2b 0913 FO D60 E+ D/
L 02 /E-C
P TYPICAL, IN PLACES STRONG FO;
/N1 66.05 66.10 X 3 D/ U40°
/N2 67.30 66.50 2c C/ D05°
L C/ D75°
R UNIT 2c ?- CONTACT XCUT FO;
/N3 68.95 69.10 3 D/ D50°
R FINE GRAINED 2-3% MAFICS WEAK FF;
/N4 69.20 69.30 3 D/ U50°
R VERY WEAK MAFICS
/P 70.00 80.00 2b 1509 FO D45 E+ D/
L 00 /E-C
P FRACTURES - MOSTLY 60-75°; DECREASING MAFICS, RARE WHITE PHENOCRYSTS
5';
/N1 70.50 76.60 X3 D/ U65°
/N2 78.00 75.40 4S D/ 65°
THREE BANDS 4025FT EACH. 1 PREGOLIAR COPY TALTS 2-1% MAFICS

1 = One 2 = Two 3 = Seven Ø = Alpha O for I = Alpha I 2 = Alpha Z $ = Alpha S 0 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: DEN 6802 02 — W1002 — 735-97 — Page 04 of 34

WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD | L/F | SI CL EP CA TE PY MT MO

| Key | Flag | From | To | Sample No. / Int. | Rock Type | Fracture | Struct. ID | Dip | Alteration | MO |
|---|---|---|---|---|---|---|---|---|---|---|
| / | N3 | 79.70 | 80.00 | X | 5 | | D/ | U35° | | |
| R | SHEARED | | | | | | | | | |
| / | P | 80.00 | 90.00 | | 2b | 1211 | | | o | |
| L | | | | | | 0.3 | | | / F-C. | D/ |
| R | TOWARDS BOTTOM CONTACT RARE WHITE PHENOCRYSTS; | | | | | | | | | |
| / | N1 | 82.80 | 83.20 | X | 5 | | C/ | U65° | | |
| R | WEAK <1% MAFICS; | | | | | | C/ | U38° | | |
| / | N2 | 83.20 | 90.00 | X | 2c | | | | | |
| R | WEAK WHITE PHENOCRYSTS <15MM; | | | | | | | | | |
| / | P | 90.00 | 100.00 | | 2c | 1409 | Fo | 45°E= | o | |
| L | | | | | | 00 | | | / F-C. | D/ |
| R | FAIR-MOD FR EP AND ENVELOPE KF AROUND 96FT; | | | | | | | | | |
| / | N1 | 98.10 | 100.00 | X | 1f | | C/ | D60° | | |
| L | | | | | | | | | | |
| R | BOTTOM CONTACT 0.5FT - SHEARED, FINE AUGEN | | | | | | | | | |
| / | P | 100.00 | 110.00 | | 2b | 1407 | Fo | D40° | o | |
| L | | | | | | 0.3 | | | / OC. | |
| R | STRONGER FOLIATION THAN NORMAL; | | | | | | | | | |
| / | N1 | 100.00 | 100.40 | X | 1f | | C | D65° | | |
| / | N2 | 104.70 | 105.00 | X | 3 | | D/ | 75° | | |
| / | N3 | 105.00 | 106.20 | X | 1f | | | | | |
| | MEDIUM GRAINED FX AND QZ | | | | | | | | | |
| / | N4 | 106.20 | 106.85 | X | 3 | | D/ | D75 | | |
| R | STRONG KF; | | | | | | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata | GRAPHIC

FLAG: DEN 6 B 0 2 0 2 | IDENTITY OF PROJECT (OR SUB-PROJECT (UNIQUE)): W1002 | HOLE-TRAVERSE NUMBER: /35-9/

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK

FROM: | TO: | MT/FT: FT

| FROM | TO | SAMPLE NO. | INT. | RECOVERY %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI HE BI | MA AZ BO CP CC | SI CL EP CA | TE PY MT MO |
|---|---|---|---|---|---|---|---|---|---|---|---|
| /N5 | 106.85 | 107.45 | | X | 1b | | | | | | |
| | | | | HAFICS - 2D ?- NB; | | | | | | | |
| /N6 | 107.45 | 109.30 | | X | 2c | | | | | | |
| P | | | | LIGHT AND DARK VARIETY; | | | | | | | |
| / | 109.30 | 110.00 | | X | 3 | | | C/ | U20° | | |
| R | | | | FOOTWALL CONTACT PARALLELS | 2c WALLROCK; | | | | | | |
| /P | 110.00 | 120.00 | | | 2c | | 15 06 | FO | D55° | O | |
| U | | | | | | | 01 | | / | OC- | D/ |
| P | | | | LIGHT COLORED WITH 10-60MM HB RICH BANDS TO LIGHT AND BANDS | | | | | | | |
| | | | | CONCENTRATED AT TOP, 2c-STRONGER FO THAN NORMAL | | | | | | | |
| /N1 | 110.00 | 110.80 | | X | 3 | | | C/ | D75° | | |
| R | | | | WALLROCK CONTACT PARALLEL CORE AT 5°; | | | | | | | |
| /N2 | 112.20 | 113.10 | | | 2c | | | | | | |
| /N3 | 113.10 | 113.30 | | X | 1a | | | | | | |
| /N4 | 116.0 | 117.50 | | X | 5 | | | C/ | U75° | | |
| L | | | | | | | | C/ | D05° | | |
| P | | | | 0.4FT UNIT 3 NEAR TOP, CONTACT; LIGHT GRAY FINE GRAINED, WEAK PERP- | | | | | | | |
| | | | | ER HAFICS | | | | | | | |
| /N5 | 118.50 | 118.95 | | | 3 | | | D/ | 75° | | |
| P | | | | SHEARED; | 118.95-119.2-SHEARED-NUGEN AND RUDITE; | | | | | | |
| /P | 120.00 | 130.00 | | | 2c | | 14 04 | FO | D30° | O | |
| U | | | | | | | 01 | | / | OC- | D/ |
| P | | | | AT TOP NORMAL TOWARDS BOTTOM ALTERNATING LIGHT AND DARK (INCREA- | | | | | | | |
| P | | | | SED HAFICS) COLORED; | | | | | | | |
| /N1 | 121.50 | 121.60 | | X | 3 | | | D/ | 75° | | |
| P | | | | SHEARED; | | | | | | | |

Any Zone Flag or Flag = CO Majority MAX or MIN or 001 – 999 | If Flag = 21-68 = S S No. w/ Flag = any no. 01-99 as dom | RECOVERY SS = Sample Serial No. | FROM TO | ROCK TYPE | RQD %RQD | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY | HASH TOTAL

1 = Alpha Z | 2 = Alpha Y | 3 = Alpha X | 4 = Alpha W | 5 = Alpha V | 6 = Zero | 7 = One | 8 = Two | 9 = Seven | 0 = Alpha O

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity Data | |
|---|---|
| FLAG | D E N / P R J |
| FORMAT VERSION | 6 8 0 2 |
| SPEC | 0 2 |
| IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | W1002 |
| ID of DRILLHOLE/TRAVERSE | 135-91 |
| PAGE | 06 OF 14 |
| Project | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION |
| Drilling by / Area | WILLIAMS CREEK |
| MT/FT | FT |

Upper Tier Geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower Tier Geodata: %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO

| Key | Flag | FROM | TO | Sample No. | Int. | Fracture Count | Struct. ID | Dip | Alteration & Mineralization |
|---|---|---|---|---|---|---|---|---|---|
| / | N2 | 122.50 | 123.20 | X | 5 | | C/ | D45° | |
| | | | | | | | C/ | D30° | |
| / | N3 | 123.70 | 123.90 | X | 1c | | | | |
| / | N4 | 123.90 | 124.60 | X | 3 | | D/ | D60° | |
| R | BOTTOM PART SHEARED | | | | | | | | |
| / | N5 | 125.70 | 126.00 | | 3 | | C/ | D30° | |
| L | | | | | | | C/ | U75° | |
| R | BOTTOM 15MM SHEARED | | | | | | | | |
| / | N6 | 129.20 | 130.00 | X | 5 | | C/ | D20° | |
| L | | | | | | | | | |
| R | MEDIUM GRAY, FINE GRAINED, COLOR FINE MAFICS, CUT BY A FEW <10MM DYKES OF UNIT 3 | | | | | | | | |
| / | P | 130.00 | 140.00 | | 2c | 11 08 | FO | D45° ED | O |
| L | | | | | | 0.6 | | | / D, C- D/ |
| R | LIGHTER COLOR, BLEB QZ AND TOWARDS BOTTOM <25MM KF PHENOCRYSTS | | | | | | | | |
| / | N1 | 130.00 | 130.90 | X | 5 | | C/ | D75° | |
| R | WEAK <10MM UNIT 3 AT CONTACT | | | | | | | | |
| / | P | 140.00 | 150.00 | | 2c | 06 07 | FO | D55° | O |
| L | | | | | | 0.6 | | | / O C- D/ |
| R | KF PHENOCRYSTS 15-40MM FAIR NUMBER AT TOP AND BOTTOM OF SECTION EST 15-20% | | | | | | | | |
| / | N1 | 140.50 | 141.00 | | | | FZ | 15° | |
| R | WEAK SHEARED WITH CB VEINLETS AND HE STAINING ZONE | | | | | | | | |
| / | N2 | 143.70 | 144.70 | X | 1g | | | | |
| / | P | 156.00 | 160.00 | | 2c | 08 12 | FO | 45° | O |
| L | | | | | | 0.5 | | | / O C- D/ |
| D | IN PLACES UP TO 30% KF PHENOCRYSTS, MOST PLACES 10-15% KF | | | | | | | | |
| R | PHENOCRYSTS UP TO 20%; | | | | | | | | |

International Geosystems Corporation — Geolog System — MA"1 FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

Identity Data

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY MM DD | BY | ASSY BY | COMPLETED MM DD | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | | 135-91 | | | | | | | | | | | | | 67 | 72 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | |

Survey Data

| | FROM (DRM CPT OR Collar) | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG | NEG = DOWN | HASH TOTAL (NOT INCLUDING ANY BLANK FIELDS) | NORTHING | NEG = SOUTH | EASTING | NEG = WEST | ELEVATION | NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | Marker Log of Feature | | FT | | | | | | | | | | | | |

Upper Tier Geodata

| FLAG | Unit of Recov | RECOVERY | ROCK TYPE | FOLIATION | STRUCT ID | STRIKE AZM | DIP | DIR | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | CP | CL | YY | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM / SCL | Unit of Length F T . 2 | %REC | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | |

Lower Tier Geodata

| FLAG | M or F | Unit of RQD | RQD | ACE Form a | ENV | RTQ | TMI | QMI | TXI | TXJ | L/F | STRUCT ID | AZM | DIP | DIR | KF | MU | CL | EP | HE | FR | MO | SL | Hw Amt | Hpw2 | Hpw1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM / SCL | | %RQD | | | | | | | | | L/F | | | | | SI | CL | EP | | TE | PY | MT | MO | | | |

GRAPHIC

A: Any Zone Flag or Flag = COMposite, MAX or MIN or DST = 999 — Flag = 01-99 as per Zone No. 01-99 as per

| FROM | TO | SAMPLE NO. | INT. | RECOVERY | S = Sample Seria No. | AZ | DIP | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| | | FROM | TO | SAMPLE NO. | INT. | RECOVERY | S = Sample Seria No. | AZ | DIP | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | N1 | 156.00 | 156.20 | | X3 | | | | D/ | 235° |
| | P | | | | BELOW 156 ROCK BECOMES DARKER AND INCREASED VEIN FINE FRACTURING | | | | | |
| / | N2 | 157.60 | 160.00 | | | | | | F2 | 45° CY PS |
| J | | | | | | | | | | 21 |
| R | | | | | WO BREAK SEEN. 1 MM FRACTURE FILLING COMMON, DARK GREEN COLOR. | | | | | |
| R | | | | | -PROPYLITIC ALTERED-SOPERCENE? | | | | | |
| / | P | 160.00 | 170.00 | | 2c | | | 07 18 04 | FO | D45° |
| J | | | | | | | | | | / |
| R | | | | | FAIR 12 OHM KF PHENOCRYSTS; 2 1/8 - 20%; | | | | | |
| / | N1 | 160.80 | 161.10 | | X3 | | | | D/ | 035° |
| / | N2 | 166.40 | 166.65 | | X3 | | | | D/ | 65° |
| / | P | 170.00 | 180.00 | | 2c | | | 11 09 08 | FO | 60° |
| J | | | | | | | | | | / |
| R | | | | | WEAK-FAIR KF PHENOCRYSTS; | | | | | |
| R | | | | | 171.0-172.3 - INCREASED FRACTURES 85° WITH HE-CA AND FAIR PROPYLITIC | | | | | |
| R | | | | | ALTERATION; | | | | | |
| / | N1 | 172.30 | 175.00 | | | | | | F2 | 35° |
| J | | | | | | | | | | / |
| R | | | | | MAIN BREAK 172.8 - 35° TO LOWER CONTACT STRONG FRACTURE CA, WEAK | | | | | |
| | | | | | WEAK FAIR FAULT, DOWN 175 - INCREASED WEAK FRACTURES; | | | | | |
| / | P | 180.00 | 190.00 | | 2c | | | 20 07 07 | FO | P56° |
| J | | | | | | | | | | / |
| R | | | | | FAIR - 20% TO 30 MM KF PHENOCRYSTS; | | | | | |
| / | P | 190.00 | 200.00 | | 2c | | | 16 12 01 | FO | 60° F4 |
| J | | | | | | | | | | / |
| R | | | | | 192 - BASE KF PHENOCRYSTS BELOW WEAK-RARE JUNTE PHENOCRYSTS; | | | | | |
| | | | | | BELOW 199 FT 1/4F PHENOCRYSTS APPEAR; | | | | | |

1 2 3 4 5 6 7

Z = Alpha Z; Y = Alpha Y; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; $ = Alpha $

International Geosystems Corporation — Geolo~ System — MA'' FORM — Geoform

ENTER KEYS IN COL. 5 TO ACTIVATE ENTRIES

Identity Data: PROJECT: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK — FORMAT VERSION: 6 B 0 2 0 2 — IDENTITY OF PROJECT (OR SUB-PROJECT) (UNIQUE): W1002 — ID OF DRILLHOLE/TRAVERSE: PRE-FIX / TYPE / NUMBER: /35-91 — PAGE: 06 — OF: 14

Survey Data: FROM (Metres Loc. of Feature) — TO — MT/FT: FT — TOTAL DEPTH-LENGTH — AZM — DECLINATION FROM TRUE N — V-ANG — ANG IS DOWN — HASH TOTAL EP+T+TD+AZM+V-ANG+N+E+EL NOT INCLUDING ANY BLANK FIELDS — NORTHING (METRES SOUTH) — EASTING (METRES WEST) — ELEVATION (METRES SUB-SEA)

Upper Tier Geodata: FLAG N A M S C L — Unit of Recov. — Unit of Length — FT

Lower Tier Geodata: FLAG N A M S C L — M or F — Unit of RQD — %RQD

GRAPHIC

| FROM | TO | %RECOVERY / SAMPLE NO. | INT. | ROCK TYPE | STRUCTURE | ALTERATION & MINERALIZATION | DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|
| 200.00 | 210.00 | | 2C M | | 13.13 Q7 | C/ 0 C° | | |
| | | 200-210 – FAIR IRREGULAR VEINLETS AT TOP AND LESS ABUNDANT BOTTOM; CONTACTS ARE LOW 20° – WEAK WHITE MICA | | | HEMATITE | | | |
| 210.00 | 220.00 | | 2C M | | 14.11 0.6 | FO 45° C/ F° C° | D/ | |
| | | FAIR WHITE PHENOCRYSTS TO 4.0 MM AU 10-15 MM; | | | | | | |
| 211.20 | 213.50 | | X5 | | | C/ U40° 75° | | |
| | | 210% UNITS MOSTLY NEAR OR ON CONTACTS; | | | | C/ | | |
| 220.00 | 230.00 | | 2C | | 15.04 Q3 | FO 40° C/ 0 C° | D/ | |
| | | WEAK-FAIR 0.40MM AND 1.0-2.0MM WHITE PHENOCRYSTS; | | | | | | |
| 221.10 | 223.80 | | 6S | | | C/ U60° | | |
| | | DYKES LEUCOCRATIC, FINE GRAINED, WEAK 2% MAFICS – UNIT ? – TRANSITION TO TRUE APLITE; | | | | | | |
| 224.50 | 226.20 | | X5 | | | | | |
| | | CORE 2 CONTACTS GROUND; MINOR (KF) APLITE | | | | | | |
| 229.00 | 229.80 | | 7 3 | | | D/ U35° | | |
| | | DYKES 4 MM TO 6 CMS; | | | | | | |
| 230.00 | 234.00 | | 2C | | | | | |
| 230.40 | 232.3 | | 9 1C | | | D45° | | |
| | | INCREASING BI TO LOWER CONTACT; 10% BI, MINOR EI; | | | | | | |

1 = One 2 = Two 3 = Seven 4 = Alpha O 5 = Alpha I 6 = Alpha Z 7 = Alpha S 8 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: DIEN 6802 | W1002 | 135-91
PRIJ | WESTERN COPPER HOLDINGS — THERMAL EXPLORATION | WILLIAMS CREEK

| FROM | TO | RECOVERY % | ROCK TYPE | FOLIATION | S/F M/F | L/F | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES | SAMPLE NO. | INT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 232.30 | 232.60 | | | | | | D/ | 040° | | | X | 5 |
| 233.70 | 233.95 | | | | | | D/ | 60° | | | X | 5 |
| | | 234 - START OF SAMPLING; LOGGING OF SPLIT CORE | | | | | | | | | | |
| 234.00 | 239.00 | | 2c | | | | FO | 45° | | HE | | |
| | | | | | | | | | | DIC | | |
| | | WEAK 2-10 cm WIDE PINK OOCRYSTS; EW PLANES ABOVE NORMAL BIOTITE, | | | | | | | | | | |
| | | BT INCREASES TO LOWER CONTACT; | | | | | | | | | | |
| 235.50 | 236.20 | | 4S | | | | | | | | | |
| | | LOOKS LIKE DYKES; LOW ANGLE TO CORE; | | | | | | | | | | |
| 237.55 | 238.20 | | | | | | | | | | | |
| | | WEAK FINE BIOTITE SPOTTING ON FRACTURES; | | | | | | | | | | |
| 239.00 | 244.00 | | 1a | | | | | | | HE | | |
| | | | | | | | | | | BIO | | |
| | | BIOTITIZED 2c; | | | | | | | | | | |
| 240.50 | 242.30 | | | | | | | | | | X | 3 |
| | | LEUCOCRATIC MEDIUM GRAINED WEAK KF, 3% BIOTITE STRONG FOLIATED | | | | | | | | | | |
| | | POSSIBLE FELSENT COLORED 1a; | | | | | | | | | | |
| 242.30 | 243.50 | | 2c | | | | | | | | X | 2 |
| 248.50 | 244.00 | | | | | | | | | | X | 3 |
| | | SHEARED DYKE - PINK FELSIC WALL ROCK | | | | | FO | | | | | |

Key: 1 = Alpha Z; 2 = Alpha I; 3 = Alpha O; 4 = Seven; 5 = Two; 6 = One; 7 = Zero; 8 = Alpha S

International Geosystems Corporation — Geolo~ System — MA[illegible] FORM — Geoform

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE-TRAVERSE |
|---|---|---|---|---|---|
| I | D E N | 6 9 0 2 | 0 2 | W1002 | 135-91 |
| I | P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | WILLIAMS CREEK |

MT/FT: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | CA | TE | PY | MT | MO

Unit of Length: FT

| KEY | FLAG | FROM | TO | SAMPLE NO. / INT. | ROCK TYPE | STRUCT. | DIP | ALTERATION |
|---|---|---|---|---|---|---|---|---|
| / | P | 244.00 | 254.00 | | 1g | FO | D?10 | |
| L | | | | | | | | |
| R | | | | | | | | |
| / | N1 | 244.00 | 244.20 | | X3 | | | C.C |
| L | | | | | | | | C.C |
| R | NOTE INCREASED MC IN UNIT 3-GREATER CA; | | | | | | | |
| / | N1 | 244.20 | 244.20 | | X1a | | | CC |
| L | | | | | | | | CC |
| / | N2 | 244.20 | 245.30 | | X1g | | | |
| L | | | | | | | | C) |
| R | TE-TRANSPORTED & INSITU; TRACE CP AND PY? | | | | | | | C) D. |
| / | | 245.30 | 246.95 | | 93 | | | C- |
| L | | | | | | | | C- |
| R | TE & MC WEAKENS TOWARDS BOTTOM; | | | | | | | |
| / | | 246.95 | 247.50 | | 91c | | | C- |
| L | | | | | | | | C- |
| R | | | | | | | | |
| / | | 247.50 | 248.80 | | 1f | | | C* |
| L | | | | | | | | D) |
| R | ZE COMMON COATING FRACTURES; INSITU TE | | | | | | | |
| / | | 248.80 | 250.70 | | X5 | | | C* |
| L | | | | | | | | CC |
| R | MC WEAKENS TO LOWER CONTACT APLITE DYKE | | | | | | | |

PAGE 10 OF 14

International Geosystems Corporation — Geolo~ System — M~ 1 FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata | GRAPHIC

I D E N 6 8 0 2 0 2 — IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 — PRE-FIX / TYPE / NUMBER: / 35-97

I P R I: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

S: FROM / TO — MT/FT: FT

Upper Tier Geodata: RECOVERY %REC — ROCK TYPE — FOLIATION — FRACTURE COUNT S/F M/F — KF LI — HE BI — MA AZ — BO CP CC

Lower Tier Geodata: RQD %RQD — L/F — SI CL — EP — TE PY — MT MO

A: FROM / TO — SAMPLE NO. — INT.

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| 250.70 | 254.00 | | 1C | |
| | | TOWARDS BOTTOM DECREASING AMOUNT OF BT AND HNBL | | |
| 254.00 | 264.00 | | 1C | Fo 65° |
| | | TRANSITIONAL AT TOP FROM 1C TO 1C; FRESH ROCK - SLIGHTLY OXIDIZED; | | WEAKLY |
| 254.70 | 256.00 | | 1C | |
| | | ROCK FRESH AT TOP BUT INCREASING WEA TO LOWER CONTACT; FAULT AT 256? DECREASING WEA TO LOWER CONTACT | | |
| 256.00 | 257.70 | | 1C | |
| | | WEAK MNR, LIGHT COLORED, WEAK BT 3-5% | | |
| 257.70 | 258.40 | | 1C | |
| | | STRONG CRUST MC; | | |
| 258.40 | 260.00 | | 1C | |
| | | BANDS UP TO 20MM DECREASING TO BOTTOM | | |
| 260.00 | 262.50 | | 1C | |
| | | 1C?-BIOTITE RED GRANODIORITE 2B?; WEA OXLM ON FRACTURES; | | |
| 262.0 | 264.00 | | 1C | |
| 264.00 | 274.00 | | 1C | Fo 60° |
| | | MC INCREASES TOWARDS 268ET - WEAK FAULT; MED-LIGHT CP-COLORED WITH UP TO 5CM DARK (HIGHER BT) BANDS HAVING BETTER MINERALIZATION | | |

Z = Alpha Z; Y = Alpha Y; Ø = Alpha O; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

81-130

International Geosystems Corporation — Geolo~ System — MA FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DEN 6802 — IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 — DRILLHOLE / TRAVERSE NUMBER: 135-91

PRJ — WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data — FROM / TO / MT/FT / TOTAL DEPTH-LENGTH / AZM / V-ANG / NORTHING / EASTING / ELEVATION

Upper Tier Geodata — FLAG NAM SCL — Unit of Recov — Unit of Length — %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI — HE BI — MA AZ — BO CP CC

Lower Tier Geodata — FLAG NAM SCL — Unit of RQD — %RQD — L/F — SI GL — EP CA — TE PY — MT MO

GRAPHIC

| | FROM | TO | SAMPLE NO. | INT. |
|---|---|---|---|---|
| /N1 | 264.00 | 266.8 | | Y3 |
| L | | | | |
| R | | | IN PART UNIT 5 | |
| /N2 | 272.20 | 274.00 | | 1a1 |
| L | | | | |
| R | | | THIS WORKING IS BIOTITIZED 2b OR 2c, SMH BAND 1c; MIN/2 ABSENT | |
| /P | 274.00 | 289.00 | | 2a |
| L | | | | |
| R | | | STRONG PERVASIVE CHLORITIZATION; FAIR FINE FRACTURES; RARE WHITE PHENOCRYSTS | |
| /P | 274.00 | 274.80 | | 1a1 |
| L | | | | |
| R | | | AS 272.20-274.00 FT; | |
| /N1 | 274.80 | 275.00 | | |
| R | | | SHEARED AND FINE BRECCIA; | |
| /N1 | 275.00 | 277.50 | | X1c |
| L | | | | |
| R | | | 20% 10-20MM BANDS OF 1F, TARNISHED BY SERI, OXIDES ESPECIALLY AT TOP & SX AT BOTTOM; | |
| /P | 277.50 | 279.00 | | 2c |
| L | | | | |
| R | | | WEAK MC AND TC; CA STARTS BELOW 278 | |
| R | | | 279.0 - 284 FINE FRACTURES LOW ANGLE COMMON AND FRACTURE | |
| R | | | CA-HE FAIRLY COMMON; | |
| /P | 284.00 | 294.00 | | 2c |
| | | | | / OED |
| | | | CA-INTERGRAN. & FRACTURES-STRONGER THAN NORMAL; FRACTURES AND | |
| | | | WEAK SHEARS DECREASE TO BOTTOM; | |

1 = One, 2 = Two, 7 = Seven, Z = Alpha Z, I or i = Alpha I, Ø = Alpha O, 0 = Zero, $ = Alpha $

International Geosystems Corporation — Geolo~ System — M/ I FORM — Geoform

| Key | Flag | Format Version | Spec | Identity of Project | ID of Drillhole/Traverse | Page | Of |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | /35-9/ | 13 | 14 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | |

Drilling by: WILLIAMS CREEK

MT/FT: FT

Upper Tier Geodata: Unit of Length FT • 2; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD; L/F; SI CL EP TE PY MT MO

| Key | Flag | From | To | Sample No. / Rock Type | Struct | Dip | KF/SI | HE/EP | MA/TE |
|---|---|---|---|---|---|---|---|---|---|
| / | N1 | 284.20 | 285. | X5 | D/ | 35° | | | |
| / | N2 | 285.60 | 285.64 | X2c | F/ | 50 | | | |
| | | | | 10 MM HE-CA SHEAR-BRECCIA-WEAK FAULT | | | | | |
| / | | 289.40 | 289.43 | X2c | F/ | | | | |
| R | | | | WEAK 10MM HE SHEAR; | | | | | |
| | | | | | | | / | | |
| / | N3 | 289.80 | 290.00 | X1f | | | | | C- |
| L | | | | | | | | | C- |
| R | | | | MINOR MC & TE. | | | | | |
| / | N4 | 291.55 | 291.80 | X1f | | | D- | | C· |
| L | | | | | | | | | D· |
| R | | | | VERY WEAK [illegible] | | | | | |
| | | | | | | | | | 0 |
| / | N5 | 293.20 | 293.50 | 1f | | | D- | | 0 |
| L | | | | | | | | | |
| / | | 293.50 | 294.00 | 1c | | | 0 | | 0 |
| L | | | | | | | | | e |
| R | | | | LIGHT COLORED-WEAK BIOTITE- | | | | | |
| / | P | 294.00 | 299.00 | 1c | FO | 40° | / | | CL |
| L | | | | | | | | | C- |
| R | | | | 1c - LIGHT COLORED, INCREASING MARKER COLORS-BI TOWARDS LOWER CONT-ACT; MC ON JOINT PEGMATITIC? DYKES | | | | | |
| / | P | 299.00 | 304.00 | 2c | | | | F* | |
| L | | | | | | | / | 0 0 | |
| R | | | | MOD. HE SHEARS AND FRACTURES-LOW ANGLE; | | | | | |
| / | N1 | 299.00 | 299.70 | 1f | | | / | | FDC· |
| L | | | | | | | | | D- |
| R | | | | AT LOWER CONTACT SHEARED; | | | | | |

2 = Alpha Z; I or i = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; 5 = Alpha S

81-130

International Geosystems Corporation — Geolog System — MAP FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | 135 | -97 | | | | | | | | | | | | | | | | | | | | |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

Survey Data

| S | TURN @ PT. 000 = Collar | FROM Marks Lot or Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG | NEG'V DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG'V SOUTH | EASTING | NEG'V WEST | ELEVATION | NEG'V SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | ° | ° | FT | | | | | | | | | | | | |

Upper Tier Geodata

| / | FLAG NAM SCL | Unit of Recov. | Unit of Length F T M | RECOVERY | T mod | Min | ROCK TYPE | TYPIFYING ARMS TX1 | TX2 | GAL/MAT QM1 | TEXTURES TX1 | TX2 | GRAIN FA | CR | C | MP | FRACTURE COUNT 1 | 2 | Int Typ | T. | STRUCT ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MC | AX | PY | CP | GL | YY | SUMMARY Fa | Al | Mc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | | | | %REC | | | ROCK TYPE | | | | FOLIATION | | | | | | S/F | M/F | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | |

Lower Tier Geodata

| L | FLAG NAM SCL | Unit of RQD | RQD | AGE Formn | ENV | RTO | Colour | TM1 | QM2 | TX1 | TX2 | SI | RN | SO | C | S | IN | L | SI | Typ | T. | STRUCT ID | STRIKE AZM | DIP To Right | KF | MU | CY | CB | MC | HW Amt | PR | MO | SL | HW Amt | HOW 1 | HOW 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | | | %RQD | | | | | | | | | | | | | | | L/F | | | | | | | SI | CL | EP | CA | | TE | PY | MT | MO | | | |

GRAPHIC

A — Any Zone Flag or Pick = Composite MAX or MIN or 001 – 999 — If Flag = 21-49 in 5.5 No. of Sample Intervals — If Flag = 50-99 in 5.5 No. of Sample Intervals

| A | FROM | TO | SAMPLE NO. | INT. | RECOVERY | A1 From | To | A2 From | To | A3 From | To | A4 From | To | A5 From | To | A6 From | To | A7 From | To | A8 From | To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | N2 | 299.70 | 301.00 | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| K | EPW | 301.00 | | | | | | | | | | | | | | | | | | | | |
| / | | 301.00 | 302.70 | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| / | P | 304.00 | 314.00 | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| / | P | 314.00 | 316.00 | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| / | N1 | 314.70 | 314.70 | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| K | END | 316.00 | | | | | | | | | | | | | | | | | | | | |

Ruler: 1 2 3 4 5 6 7 — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

$ = Alpha S  0 = Zero  1 = One  2 = Two  7 = Seven  ∅ = Alpha O  I or ! = Alpha I  Z = Alpha Z

International Geos[illegible]tems Corporation — Geo[illegible] System — RECOV[illegible]RY FORM — Geoform

| KEY | FLAG | FORMAT VERSION | IDENTITY OF PROJECT | ID (PRE-FIX / TYPE / NUMBER) | SIZE OF CORE | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | W1002 | 135-91 | HQ | 01 | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | |

DRILLING BY: WILLIAMS CREEK

| MT/FT | TOTAL DEPTH-LENGTH | AZM | V-ANG |
|---|---|---|---|
| FT | 314 | 247 | -51.0 |

%REC

%RQD

| KEY | FROM | TO | RQD | Comment |
|---|---|---|---|---|
| L | 10 | 20 | 37 | |
| L | 20 | 30 | 42 | |
| L | 30 | 40 | 56 | |
| L | 40 | 50 | 52 | |
| L | 50 | 60 | 49 | |
| L | 60 | 70 | 21 | |
| L | 70 | 80 | 38 | |
| L | 80 | 90 | 32 | |
| L | 90 | 100 | 39 | |
| L | 100 | 110 | 34 | |
| L | 110 | 120 | 26 | |
| L | 120 | 130 | 43 | |
| L | 130 | 140 | 17 | |
| L | 140 | 150 | 25 | |
| L | 150 | 160 | 33 | |
| L | 160 | 170 | 20 | |
| L | 170 | 180 | 14 | |
| L | 180 | 190 | 5 | |
| L | 190 | 200 | 23 | |
| L | 200 | 210 | 23 | |
| L | 210 | 220 | 10 | |
| L | 220 | 230 | 16 | 230' ONWARDS SPLIT TO END OF HOLE |

International Geosystems Corporation — Geology System — RECOVERY FORM — Geoform

IDEN: 6 8 0 2 0 2 — W1002 — 1-35-01

PRJ: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

MT/FT: FT

Unit of Recov: %REC

| FROM | TO | RECOVERY (%REC) |
|---|---|---|
| 6.0 | 16.0 | 85 |
| 16.0 | 26.0 | 94 |
| 26.0 | 36.0 | 100 |
| 36.0 | 46.0 | 98 |
| 46.0 | 56.0 | 97 |
| 56.0 | 66.0 | 98 |
| 66.0 | 76.0 | 100 |
| 76.0 | 86.0 | 100 |
| 86.0 | 96.0 | 100 |
| 96.0 | 106.0 | 100 |
| 106.0 | 116.0 | 99 |
| 116.0 | 126.0 | 100 |
| 126.0 | 136.0 | 99 |
| 136.0 | 146.0 | 98 |
| 146.0 | 156.0 | 100 |
| 156.0 | 165.0 | 82 |
| 165.0 | 175.0 | 90 |
| 175.0 | 184.0 | 90 |
| 184.0 | 194.0 | 98 |
| 194.0 | 204.0 | 98 |
| 204.0 | 214.0 | 100 |
| 214.0 | 224.0 | 100 |
| 224.0 | 234.0 | 91 |
| 234.0 | 245.0 | 94 |
| 245.0 | 256.0 | 93 |
| 256.0 | 266.0 | 98 |
| 266.0 | 275.0 | 100 |
| 275.0 | 285.0 | 99 |
| 285.0 | 295.6 | 100 |
| 295.6 | 305.6 | 100 |
| 305.6 | 316.0 | 98 |

0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or l = Alpha I Z = Alpha Z S = Alpha S

International Geosys  ms Corporation — Geolo  ystem — SAM  E FORM — Geoform

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE (PRE-FIX – TYPE – NUMBER) | SIZE OF CORE OR HOLE | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 1-35-01 | 46 | OLYMPIC | 91 08 19 | 08 20 | GRID | 337. | 01 | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | WILLIAMS CREEK | | | | | | |

| KEY | TURN G PT. 000 = Collar | FROM | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM | V-ANG |
|---|---|---|---|---|---|---|---|
| S | 000 | 0. | | FT | 316. | 247. | -50. |

| KEY | FLAG | FROM | TO | SAMPLE NO. | INT. | | | Cu % | CuNSCu % | Au oz/T | Ag oz/T |
|---|---|---|---|---|---|---|---|---|---|---|---|
| K | H/W | | | | | | | | | | |
| S | | 3160 | | | | 25 | -49 | | | | |
| K | F/W | | | | | | | | | | |
| A | SAM | 2340 | 2440 | T15532 | 100 | | | 0.15 | 0.10 | <0.002 | <0.01 |
| | | 2440 | 2540 | T15533 | 100 | | | 1.02 | 0.94 | 0.006 | 0.05 |
| | | 2540 | 2640 | T15534 | 100 | | | 1.96 | 1.82 | 0.008 | 0.06 |
| | | 2640 | 2740 | T15535 | 100 | | | 1.26 | 1.16 | 0.004 | 0.05 |
| | | 2740 | 2840 | T15536 | 100 | | | 0.33 | 0.31 | <0.002 | <0.01 |
| | | 2840 | 2940 | T15537 | 100 | | | 0.39 | 0.35 | 0.002 | 0.03 |
| | | 2940 | 2990 | T15538 | 50 | | | 0.99 | 0.94 | 0.010 | 0.11 |
| | | 2990 | 3040 | T15539 | 50 | | | 1.36 | 1.27 | 0.030 | 0.11 |
| | | 3040 | 3140 | T15540 | 100 | | | 0.01 | 002 | <0.002 | <0.01 |

International GeoSystems Corporation — Geolog System — MAIN FORM — Geoform

SYMBOLS & CODES.

| | | | |
|---|---|---|---|
| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) |
| D E N | 6 B 0 2 | 0 2 | W1002 |
| P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | WILLIAMS CREEK |

Survey Data: FT

Upper Tier Geodata: %REC · ROCK TYPE · FOLIATION · S/F M/F · KF · LI · HE · BI · MA · AZ · BO · CP · CC

Lower Tier Geodata: %RQD · L/F · SI · CL · EP · TE · PY · MT · MO

FROM · TO · SAMPLE NO. · INT.

**ROCK TYPE:**

- 5 APLITE
- 4 QUARTZ VEIN
- 3 PEGMATITE
- 2 GRANODIORITE
  - 2a coarse biotite
  - 2b " hornblende
  - 2c " quartz-feldspar
  - 2d " K-spar porphyry
  - 2e assimilated gneiss
- 1 GNEISS
  - 1a coarse biotite dominant
  - 1b " hornblende "
  - 1c medium biotite "
  - 1d " hornblende "
  - 1e " quartz-feldspar "
  - 1f fine biotite "
  - 1g " hornblende "
  - 1h >2cm augen
  - 1i <2cm augen

**STRUCTURES, ETC.**

- C/ CONTACT
- C/G CONTACT GRADATIONAL
- D/ DYKE
- F/ FAULT
- SH/ shear
- BRX BRECCIA ZONE
- F/W FOOTWALL
- H/W HANGING WALL
- OVB OVERBURDEN
- WTH WEATHERED ZONE
- B/ BAND
- V/ VEIN

**FRACTURES PER FOOT**

- L = 0° TO 30° TO CORE AXIS
- M = 30° TO 60° TO CORE AXIS
- S = 60° TO 90° TO CORE AXIS

**MODES**

- 1 D or P or E ≥ F or C
- 2 D or P or E > F or C
- 3 D or P or E < F or C
- ~~A~~ amygdaloidal fillings
- ~~B~~ ~~blebs~~
- # BRECCIA MATRIX
- C COATING
- ✱ CLASTS
- D DISSEMINATED
- E ENVELOPES
- F FRACTURE FILLINGS
- G GOUGE
- H PHENOCRYST REPLACEMENT
- I AUGEN or EYES
- J INTERSTITIAL
- K STOCKWORK
- L LAMINATIONS
- M MASSIVE
- N NODULES
- O SPOTS
- P PERVASIVE
- Q PATCHES
- R ROSETTES
- S SELVAGES
- ~~S~~ SHEETINGS
- T STAINS
- U EUHEDRAL
- V VEINS
- > MACRO VEINS
- < MICRO VEINS
- W BOXWORK
- Ø FRESH

**%**

| | |
|---|---|
| X | 100 % |
| 9 | 86 – 99 % |
| 8 | 76 – 85 % |
| 7 | 66 – 75 % |
| 6 | 56 – 65 % |
| 5 | 46 – 55 % |
| 4 | 36 – 45 % |
| 3 | 26 – 35 % |
| 2 | 16 – 25 % |
| 1 | 7 – 15 % |
| = | 4 – 6 % |
| + | 2 – 4 % |
| ) | 0.7 – 2 % |
| ✱ | 0.2 – .7 % |
| ( | 0.07 – .2 % |
| — | 0.02 – 0.07 % |
| • | TRACE or <0.02 % |
| O | absent |
| P | POSSIBLY PRESENT |
| / | PRESENT (NO %) |

International GeoSystems Corporation — Coring System — MAIN FORM — Geoform

SYMBOLS & CODES

FLAG: DEN 6802 — IDENTITY OF PROJECT (OR SUB-PROJECT) (UNIQUE): W1002

PRJ: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

MT/FT: FT

%REC = % RECOVERY / S/F, M/F, L/F FRACTURE COUNT PER FOOT / % RQD = % OF INTERVAL WITH CORE LENGTH OVER 4 INCHES

MINERALS & ALTERATION — (FIRST COLUMN / SECOND COLUMN) MODE %

| | |
|---|---|
| KF | K-FELDSPAR |
| LI | LIMONITE |
| HE | HEMATITE |
| BI | BIOTITE |
| SI | SILICA (QUARTZ) |
| CL | CHLORITE |
| EP | EPIDOTE |
| CA | CALCITE |
| HB | HORNBLENDE |
| MA | MALACHITE |
| AZ | AZURITE |
| BO | BORNITE |
| CP | CHALCOPYRITE |
| CC | CHALCOCITE |
| TE | TENORITE (COPPER LIMONITE) |
| PY | PYRITE |
| MT | MAGNETITE |
| MO | MOLYBDENITE |

Alpha Z = 5 = Alpha 5 — Y = 4 = Alpha 4 — X = 3 = Alpha 3 — W = 2 = Two — V = 1 = One — U = 0 = Zero — T = Ø = Alpha O — S = 7 = Seven

International Geosyst ms Corporation  Geolo ystem  MA FORM  Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| Identity Data | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILLHOLE PRE-FIX | TRAVERSE TYPE | TRAVERSE NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | GEOLOGGED MM | GEOLOGGED DD | BY | ASST BY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DEN | 6 B 0 2 0 2 | | W1002 | 121-91 | | | HQ | | | | MPP | | | | OLYMPIC | 91 | 08 | 08 | 08 | 08 | | | | | 01 | 06 |
| | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| Survey Data | TURN to PT 000 = Collar | FROM Metric Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM COLLARING FROM TRUE | V-ANG NEG IF DOWN | HASH TOTAL (+ = I + ID + AZM + V-ANG + N + E + EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IF SOUTH | EASTING NEG IF WEST | ELEVATION NEG IF SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 0 | 0 | FT | 260. | 247. | -50. | | 1900.3 | -48.2 | 2848.2 |

| Upper Tier Geodata | FLAG | RECOVERY Tmod Mo | ROCK TYPE | TYPIFYING MINS TM1 TM2 | QAL/MAT QM1 | TEXTURES TX1 TX2 | GRAIN FI CO CE MP | FRACTURE COUNT 1 2 | Int Typ | Tr | STRUCT ID | STRIKE AZM | DIP Tn Angle | DZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY CB MG XX PY | CP | GL | YY | SUMMARY Fe Al | Mn 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL | Unit of Recov F T 1 2 | %REC | | | FOLIATION | | S/F M/F | | | | | | KF | LI | HE BI MA AZ | BO | CP | CC | | |

| Lower Tier Geodata | FLAG | Mar F | ROD Unit of ROD | ACE Form | ENV | RTO | Colour | TM1 | QM1 | TX1 | TX2 | Sil | Ru | Sh | OC | Is | Ie | K | U | Int Typ | Tr | STRUCT ID | AZM | DIP Tn Angle | KF | MU | C1 | EP | HE | Hw Amt | PR | MO | SL | Hw Amt | How 2 | How 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL | | %ROD | | | | | | | | | | | | | L/F | | | | | | | | | SI | CL | EP | CR | | TE | PY | MT | MO | | | |

GRAPHIC

| A | FROM | TO | SAMPLE NO. | INT. | RECOVERY | ROCK TYPE | FRACTURE | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | 0 | 500 | 100 | | | | | | | | | |
| P | 500 | 1000 | | | 2c | 60° | 1.0 0.6 0.6 | | | | | |
| P | 1000 | 2000 | | | 2c | 60° | 1.1 0.9 0.3 | | | | | |
| D | 2000 | 3000 | | | 2c | 55° | 1.1 0.6 0.2 | | | | CK / | |
| R | | | FOOP TO 5cm AVERAGE 60° A SHEARS, 1%-TO 20cm UNIT 2e | | | | | | | | | |
| P | 3000 | 4000 | | | 2c | 50° | 1.7 0.5 0.2 | | | | CK / | D/ |
| R | | | FAIR TO REGOLITH CRACKS INCREASING TOWARDS DYKE, 1-20 cm BAND UNIT 2e | | | | | D/ | | 20 | | |
| N1 | 3920 | 4000 | | 3 | | | | | | | | |
| P | 4000 | 5000 | | | 2c | 50° | 1.0 1.0 0 | | | | C. PC / | D/ |
| N | 4680 | 4690 | | 3 | | | | D/ | | 30° | | |
| R | | | XCUTS FOLIATION | | | | | | | | | |
| P | 5000 | 6000 | | | 2c | 65° | 1.3 0.8 0.1 | | | | PC C4 | D/ |
| N | 5290 | 5500 | | 2d | | 60° | | | | | PC | |
| R | | | UNIT 3 FLOODING UNIT 2b TO PRODUCE ROCK WAVY ING FROM UNIT 2d TO | | | | | | | | | |
| R | | | UNIT 2d: STRONG FOLIATION IMPARTED BY PEG FLOODING; | | | | | | | | | |
| N2 | 5525 | 5550 | | X3 | | | | D/ | | +50° | | |
| N3 | 570 | 5701 | | X3 | | | | D/ | | +50 | | |

Z = Alpha Z
I or J = Alpha I
Ø = Alpha O
7 = Seven
2 = Two
1 = One
0 = Zero
5 = Alpha S

International Geosyst[?]ms Corporation — Geolog System — MA[?] FORM — Geoform

| Identity Data | FLAG | Format Version | Spec | Identity of Project | ID of Drillhole | Size of Core | Page | Of |
|---|---|---|---|---|---|---|---|---|
| | DEN | 6 8 0 2 | 0 2 | W1002 | [?]21-91 | HQ | 02 | 06 |

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP CA TE PY MT MO

| Key | Flag | From | To | Sample No. / Int. | Rock Type | Foliation | Fracture | Struct ID | Dip | Alteration & Mineralization |
|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 60.00 | 70.00 | | 2c | 50° | 25 06 | | | |
| L | | | | | | | 05 | | | P = C+K. D/ |
| R | 60.29-64.3 FT - STRONG FRACTURES - WEATHERED 10 FT EN COATING CA KAREC | | | | | | | | | |
| R | < 1% 2.2c[?] RALLS UNIT 2c | | | | | | | | | |
| | | | | | | | | | | D/ |
| / | P | 70.00 | 71.50 | | 2c | 60° | 25 0.6 | | | |
| L | | | | | | | 0 | | | P. C- |
| R | | | | | | | | | | |
| / | N1 | 71.00 | 71.50 | 3 | 1f | | | | | o o o o o |
| L | | | | | | | | | | o o o o o o |
| R | LENSES TO 20CM UNIT 1f; | | | | | | | | | |
| / | N2 | 71.50 | 75.00 | | 1f | 40 | | C/ | 30° | P9 o o o o o |
| L | | | | | | | | C/ | 40° | o o o o o |
| R | CONTACTS SHARP; BARREN OF MINERALIZATION; IN PLACES LOOKS LIKE | | | | | | | | | |
| | CATACLASTIC STRUCTURE, HYPOGENE; WEAK SUPERGENE CY ON FRACTURES, | | | | | | | | | |
| / | N2 | 75.00 | 80.00 | | 2d | 50° | 0.6 1.6 | | | P. / |
| L | | | | | | | 1.5 | | | |
| R | UPPER CONTACT TRANSITIONAL START ABOUT 70 FT; | | | | | | | | | |
| / | P | 80.0 | 90.00 | | 2d | 45° | 0.9 1.1 | | | P. D/ |
| L | | | | | | | 0.3 | | | |
| / | N | 81.5 | 89.00 | X | 2c. | | | | | |
| L | | | | | | | | | | |
| R | CONTACTS TRANSITIONAL; 85.7-86.2 - UNIT 1g - LIGHT COLORED | | | | | | | | | |
| / | P | 90.00 | 100.00 | | 2d | 60° | 0.8 1.8 | | | |
| L | | | | | | | 0.6 | | | P. C- D/ |
| R | 95 FT - 2CM UNIT | | | | | | | D/ | 20° | |
| / | N1 | 94.90 | 95.00 | X | 3 | | | | | |
| R | D/ - XCUT FOLIATION; WEAK SUP ALT ON FRACTURES - CY & MINOR CA | | | | | | | | | |
| R | OCC PRESENT | | | | | | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Field | Value |
|---|---|
| Format version | 6 8 0 2 0 2 |
| Identity of project | W1002 |
| ID of drillhole | 1/21-91 |
| Page | 03 of 06 |
| Project | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| MT/FT | FT |
| Upper tier geodata | %REC, ROCK TYPE, FOLIATION, S/F M/F, KF LI HE BI, MA AZ BO CP CC |
| Lower tier geodata | %RQD, L/F, SI CL EP CA, TE PY MT MO |

| Key | Flag | From | To | Sample No. / Comments | Rock type | Foliation | Fracture | Struc ID | Dip | Alteration | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 100.00 | 110.00 | | 2d | 55° | 13 1.0 | | | | |
| L | | | | | | | 03 | | | P – C – | D/ |
| R | | | | KF PHENOCRYSTS – POIKOLITIC – USUALLY ALONG FOLIATION PHENOCRYSTS | | | | | | | |
| R | | | | UP TO 35MM | | | | | | | |
| / | N1 | 106.30 | 110.00 | X | 2c | | | | | | |
| R | | | | UPPER CONTACT TRANSITIONAL, | | | | | | | |
| / | P | 110.00 | 120.00 | | 2c | 55° | 11 1.6 | | | | |
| L | | | | | | | 6 | | | P – C – | D/ |
| R | | | | | | | | | | | |
| / | N1 | 113.00 | 114.00 | | 3 | | | D/ | 25 | | |
| / | N2 | 114.00 | 114.90 | | 2d | | | | | | |
| R | | | | WEAK KF PHENOCRYSTS, | | | | | | | |
| / | N3 | 114.90 | 115.00 | | | | | D/ | 20° | | |
| R | | | | XCUTS FOLIATION | | | | | | | |
| / | P | 120.00 | 130.00 | | 2c | 45° | 07 2.1 | | | | |
| L | | | | | | | 08 | | | P. | D/ |
| R | | | | SPHENE – GREENISH WEDGE SHAPED CRYSTALS – 1% – SEEN SINCE START OF | | | | | | | |
| R | | | | HOLE; FRACTURE ± 60 MOST COMMON; 127.5 – 35° WEAK SHEAR | | | | | | | |
| / | N1 | 120.45 | 120.60 | | 3 | | | D/ | 60° | | |
| R | | | | XCUT FOLIATION; | | | | | | | |
| / | N2 | 123.40 | 124.60 | 9 | 3 | | | D/ | 60° | | |
| R | | | | UPPER CONTACT – IRREGULAR TO 60°; | | | | | | | |
| / | P | 130.00 | 140.00 | | 2c | | 16 0.5 | FO | 50° | | |
| L | | | | | | | 02 | | | P. C. | D/ |
| R | | | | PATCHES 1 – 2FT WITH TO 7MM BLEB FAIRLY STRONG & IMPART STRONG | | | | | | | |
| R | | | | FOLIATION TO ROCK – TO 137.5 FT | | | | | | | |
| / | P | 140.00 | 150.00 | | 2c | | 08 1.1 | FO | 50° | C – | |
| L | | | | | | | 03 | FZ | 55° | P – C – | |
| R | | | | 140.30 – 141.5 – FAULT ZONE – MAIN BREAK – 141.3 – 141.5 – BRECCIA – FINE ANGULAR | | | | | | | |
| | | | | CLASTS <5MM IN RED CLAY MATRIX; MODERATE FAULT | | | | | | | |
| / | N | 144.7 | 150.00 | X | 2d | | | | | | |
| R | | | | LATH – SQUARE PHENOCRYSTS UP TO 40MM AVERAGE 10 – 20MM | | | | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Key | Flag | Format Version | Spec | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|---|---|
| D E N | | 6 B 0 2 | 0 2 | W1002 | 121-91 | 04 | 06 |

P R J: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata (N A M / S C L): Unit of Length: FT · %REC · ROCK TYPE · FOLIATION · S/F M/F · KF · LT · HE · BI · MA · AZ · BO · CP · CC

Lower Tier Geodata (N A M / S C L): %RQD · L/F · SI · CL · EP · CA · TE · PY · MT · MO

A H F: FROM · TO · SAMPLE NO. · INT.

| Key | Flag | From | To | Rock type / Remarks | Fracture | Struct | Dip | Alteration | Summary |
|---|---|---|---|---|---|---|---|---|---|
| R | | | | 146.0 - 149.0 - FRACTURE PARALLEL CORE AXIS - CA & HE FAIRLY COMMON; | | | | | |
| / | P | 15000 | 16000 | 2d | 1.709 | FO | 50 | C· | |
| L | | | | | 0 | | | / P·- C- | D/ |
| / | P | 16000 | 17000 | 2d | 08.1.7 | FO | 50° | C- | D/ |
| L | | | | | 0.4 | | | / P· C- | |
| R | | | | | | | | | |
| / | N | 16520 | 16540 | 3 | | D/ | 35° | | |
| R | | | | DYKE XCUTS FOLIATION; | | | | | |
| R | | | | FAULT - ZONE = 165.7 - 171.19: 165.7 - 169.0 - SHEARS TO 15MM WITH HE IN SHEAR | | | | | |
| R | | | | ENVELOPE MAIN BREAK FAULT 169.0 - 171.19 = ~30% BANDS - PALE GREEN, V FINE | | | | | |
| R | | | | BRECCIA - MAFICS ABSENT; MOD HARD (SI?) TO SOFT, BANDS 1CM - 0.5FT WIDE | | | | | |
| R | | | | AVERAGE 45°, HE - ENVELOPE TO PERVASIVE STRONG; STRONG FAULT; | | | | | |
| | | | | FAULT XCUT FOLIATION?; | | | | | |
| / | P | 17000 | 18000 | 2d | 24.1.5 | FO | 50 | EC | |
| L | | | | | 0 | | | / P· C- | D/ |
| R | | | | 170.0 - 175.0 - STRONG FRACTURES AT TOP, DECREASING DOWN SECTION; FRACT- | | | | | |
| R | | | | URES WEAK SHEAR WITH CH, CA & CRUSHED ALTERED ROCK. | | | | | |
| / | P | 18000 | 19000 | 2d | 1.209 | FO | 40 | 0 | |
| L | | | | | 0.4 | | | P/ P· C- | D/ |
| / | P | 19000 | 20000 | 2d | 1.21.0 | FO | 60 | 0 | |
| L | | | | | 0.9 | | | P/ P· C- | D/ |
| R | | | | K+SPAR FAIR-WEAK & QZ-BLEB MOD-STRONG; TOWARDS LOWER CONTACT | | | | | |
| | | | | DECREASING KF PHENOCRYSTS; | | | | | |
| / | P | 20000 | 21000 | 2a | 0.605 | FO | 40° | | |
| L | | | | | 0.7 | | | / P· C- | D/ |
| R | | | | UPPER CONTACT TRANSITIONAL | | | | | |
| R | | | | | | | | | |
| / | N | 2036 | 26200 | | | FZ | 20° | | |
| L | | | | | | | | P8 0 0 | / |
| R | | | | FIVE - 5-15MM PALE-MED GREEN SHEAR - BRECCIAS - MOD SI WITH WALLROCK | | | | | |
| | | | | ENVELOPE - PERVASIVE FX TO PINK COLOR & MAFICS TO CHLORITE | | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity Data | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 121-91 | 05 | 06 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | WILLIAMS CREEK | | |

Survey Data: FROM | TO | MT/FT: FT | TOTAL DEPTH-LENGTH | AZM | V-ANG | NORTHING | EASTING | ELEVATION

Upper Tier Geodata: RECOVERY %REC (Unit of Recov. FT) | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: RQD %RQD | L/F | SI | CL | EP | CA | TE | PY | MT | MO

Ana: FROM | TO | SAMPLE NO. | INT.

| Key | Flag | From | To | Rock Type / Int. | Fracture Count | Struct | Dip | LI / MU | HE / CL | BO / MO |
|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 210.00 | 220.00 | 2c | 07 1.0 | FO | 50° | | | |
| L | | | | | 0.1 | | | | | |
| R | 214.5-10° CORE AXIS, TO 5MM PALE GREEN SHEAR-MOD SOFT FILLING & | | | | | | | | | |
| R | TO 20MM ENVELOPE - FX ALT PINK & HB TO CL+CA; 219.8-220.1 - UNIT 2c. | | | | | | | | | |
| / | P | 220.00 | 230.00 | 2c | 0405 | FO | 60° | | C- | |
| L | | | | | 0.3 | | | P/ | P • C- | D/ |
| R | WEAK FRACTURES | | | | | | | | | |
| / | N1 | 222.20 | 225.00 | 2b | | C/ | 60° | | | |
| L | | | | | | | | | | |
| R | UPPER CONTACT SHARP LOWER CONTACT TRANSITIONAL OVER ± 1FT. | | | | | | | | | |
| R | 223.4-0.1FT UNIT 3, XCUTS FOLIATION; | | | | | | | | | |
| / | P | 230.00 | 240.00 | 2c | 0302 | FO | 45° | | o | |
| L | | | | | 01 | | | P/ | P · C · | D/ |
| R | | | | | | | | | | |
| / | P | 240.00 | 250.00 | 2c | 0806 | FO | 45° | | C- | |
| L | | | | | 01 | | | | P · | D/ |
| R | 245.7-10MM SHEAR-20° | | | | | | | | | |
| / | N1 | 241.00 | 242.10 | X 2b | | | | | | |
| / | PROMINENT FX PHENOCRYSTS TO 3CM UPPER CNT TRANSITIONAL | | | | | | | | | |
| / | N2 | 242.10 | 242.70 | X 2e? | | | | | | |
| | UNIT 2c?-LEUCOCRATIC, FINE GRAINED, 5% MAFICS UPPER CONTACT | | | | | | | | | |
| | SHARP-40°, LOWER CONTACT 5MM SHEAR WITH HE & ALTERED ROCK | | | | | | | | | |
| / | N3 | 247.30 | 248.90 | 93 | | C/ | 35° | | | |
| R | CONTACTS-IRREGULAR TO 35° | | | | | | | | | |
| / | P | 250.00 | 260.00 | 2c | 0203 | | | | F- | |
| L | | | | | 09 | | | | P · C- | / |
| R | | | | | | | | | | |
| N | | 250.00 | 253.60 | X 2b | | FZ | 45° | | | |
| / | | | | | | | | | | |
| R | PINK ALTERATION THROUGHOUT. AT UPPER CONTACT 45° 10MM GREEN SHEAR | | | | | | | | | |

International Geosyst ms Corporation — Geolog ystem — MA FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID or DRILLHOLE PRE-FIX | TRAVERSE TYPE | TRAVERSE NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | GEOLOGGED MM | GEOLOGGED DD | BY | ASST BY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | 121-91 | | | | | | | | | | | | | | | | | | | | 06 | 06 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| S | FLAG | TURN G.P. 000 = Collar | FROM Marks Loc. of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM (CORRVD FROM TRUE N) | V-ANG | NEG/P DOWN | HASH TOTAL (NOT INCLUDING ANY BLANK FIELDS) | NEG/P SOUTH | NORTHING | NEG/P WEST | EASTING | NEG/P SUB-SEA | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | NAM SCL | | | | FT | | | | | | | | | | | |

| L | FLAG | Alt or F | RECOVERY | T MOD | Attr | ROCK TYPE | TYPE/TEX MIN1 | TYP/TEX MIN2 | QAL/MAT QM1 | TEXTURES TX1 | TX2 | GRAIN GR | C | MP | FRACTURE COUNT | FM | TY | STRUC1 ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CR | MG | XX | PY | CP | GL | YY | SUMMARY FA | AA | MS | I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM SCL | Unit of F | %REC | | | | | | | FOLIATION | | | | | S/F | M/F | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | | |

| L | FLAG | Alt or F | ROD | Alt Form | ENV | RTG | Comp | TM1 | QM2 | TX1 | TX2 | Sz | Rn | Sh | % C | R | Im | S | Ir | TY | STRUC2 ID | AZM | DIP To Right | XF | MO | CL | EP | NE | Hw Amt | PR | MO | SL | Hw Amt | How2 | How1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM SCL | Unit of ROD | %ROD | | | | | | | | | | | | | L | F | | | | | | | SI | | CL | EP | | | TE | PY | MT | MO | | | |

| A | AHF | FROM | TO | SAMPLE NO. | INT. | RECOVERY | Alpha serial no. | A1 From | A1 To | A2 From | A2 To | A3 From | A3 To | A4 From | A4 To | A5 From | A5 To | A6 From | A6 To | A7 From | A7 To | A8 From | A8 To | A9 From | A9 To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | AHF | Any Zone Flag or Flag = COMposite, MAX or MIN or 001 – 999 | | | | | | | | | | | | | | | | | | | | | | | | |
| A | AHF | If Flag = 0 or 1, FROM = TO; if Flag = 2 or 3, any no. 01-99 as defined | | | | | | | | | | | | | | | | | | | | | | | | |

R 2507-02 FT 2° SHEAR - BRECCIA CLASTS TO 10 MM IN CRUSHED HOST ROCK MATRIX

RB 2530-02 FT SHEAR - BRECCIA - 25° PARALLEL FOLIATION; THICKNESS OUT 1-2 MM

RB 1-2 MM = FAULT; DISCRETE SHEAR 2 MM WIDE;

/N 2535 2560 0 1g C/ 35° 10

LR FO 40° P- 0

R FINE & MEDIUM GRAINED DIORITE HB GNEISS; NO SOUP; INCL. GREEN

2552-01 FT 35° SHEAR UP PART GREENISH COLOR WITH DARK ALTERATION

ENVELOPE

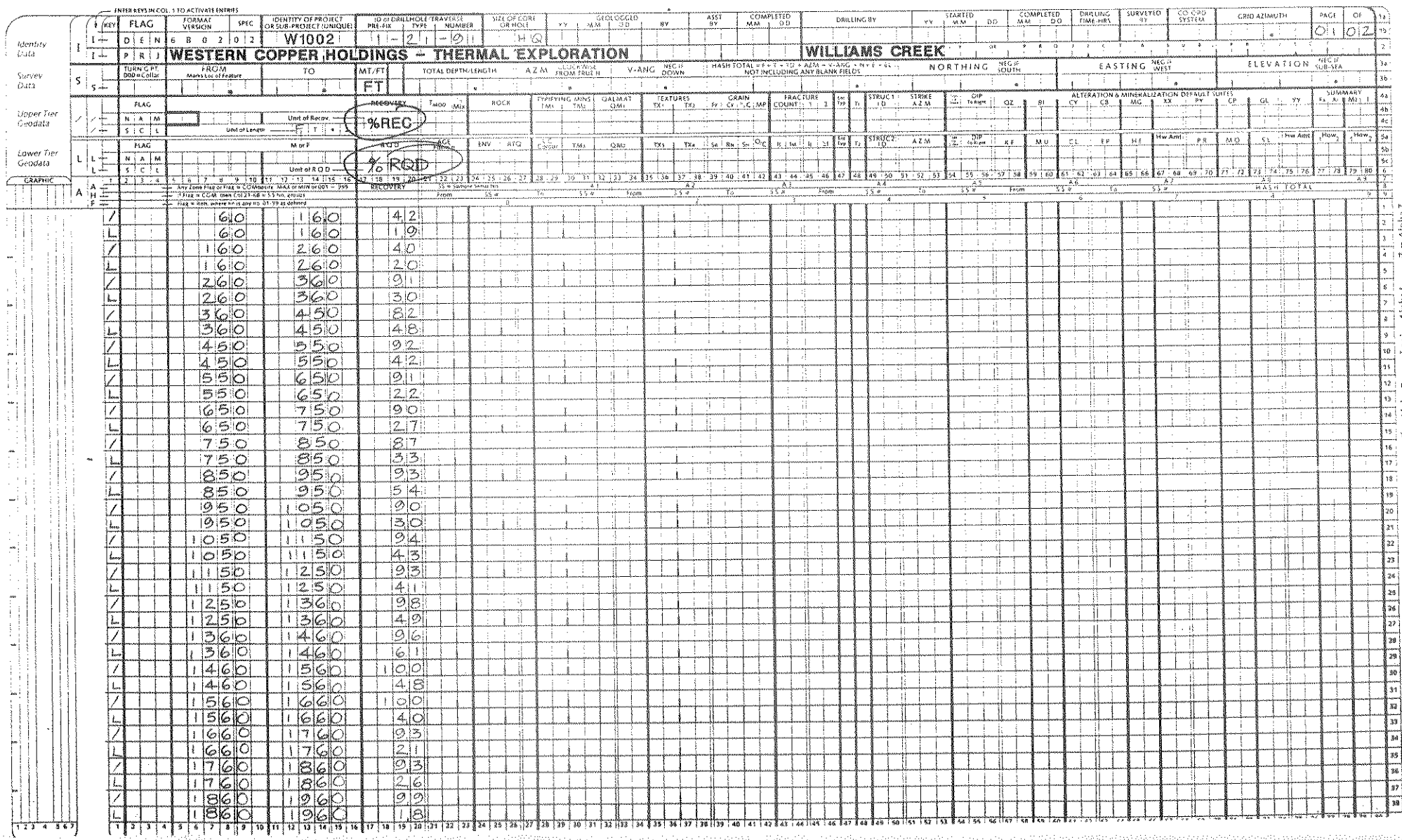
/N 2560 2600 2g

KEND 2600

Identity Data — Survey Data — Upper Tier Geodata — Lower Tier Geodata — GRAPHIC

1 = One 2 = Two 7 = Seven 0 = Zero S = Alpha S Ø = Alpha O I or L = Alpha I Z = Alpha Z

International Geosys ms Corporation  Geolo ystem  RECOVI Y FORM  Geoform



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ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

**Identity Data**

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX / TYPE / NUMBER | SIZE OF CORE OR HOLE | PAGE | OF |
|---|---|---|---|---|---|---|---|---|
| I | DEN | 6802 | 02 | W1002 | 1 - 21 - 91 | HQ | 02 | 02 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | |

DRILLING BY: WILLIAMS CREEK

**Survey Data**

MT/FT: FT

**Upper Tier Geodata**

Unit of Recov. — %REC

Unit of Length — F T i e 2

**Lower Tier Geodata**

Unit of RQD — %RQD

Any Zone Flag or Flag = COMposite, MAX or MIN or 001 – 999
If Flag = COM, then Col 21-68 = S S No. groups
Flag = Rnn, where nn is any no. 01-99 as defined

| KEY | FROM | TO | RECOVERY / RQD |
|---|---|---|---|
| / | 196.0 | 206.0 | 93 |
| L | 196.0 | 206.0 | 53 |
| / | 206.0 | 216.0 | 96 |
| L | 206.0 | 216.0 | 71 |
| / | 216.0 | 226.0 | 99 |
| L | 216.0 | 226.0 | 70 |
| / | 226.0 | 236.0 | 100 |
| L | 226.0 | 236.0 | 84 |
| / | 236.0 | 246.0 | 98 |
| L | 236.0 | 246.0 | 77 |
| / | 246.0 | 256.0 | 99 |
| L | 246.0 | 256.0 | 85 |
| / | 256.0 | 260.0 | 73 |
| L | 256.0 | 260.0 | 50 |

Z = Alpha Z   I or i = Alpha I   Ø = Alpha O   7 = Seven   2 = Two   1 = One   0 = Zero   S = Alpha S

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## Identity Data

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE | SIZE OF CORE OR HOLE | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 1-21-91 | HQ | OLYMPIC | 91 08 08 | 08 08 | GRID | 337. | 01 | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | WILLIAMS CREEK | | | | | | |

## Survey Data

| KEY | TURN G PT. 000 = Collar | MT/FT | TOTAL DEPTH/LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IF DOWN |
|---|---|---|---|---|---|
| S | 000 | FT | 260.0 | 247. | -50. |

## Lower Tier Geodata

| TX1 | TX2 | | |
|---|---|---|---|
| Cu% | Cu nSul % | Au oz/T | Ag oz/T |

## Sample Data

| KEY | FLAG | FROM | TO | SAMPLE NO. | INT. | | Cu% | Cu nSul % | Au oz/T | Ag oz/T |
|---|---|---|---|---|---|---|---|---|---|---|
| K | H/W | | | | | | | | | |
| S | | 255 | | | 239 | -47 | | | | |
| K | F/W | | | | | | | | | |
| A | SAM | 71.5 | 75.0 | TI5798 | 3.5 | | 0.06 | 0.04 | <0.002 | 0.01 |
| | | 75.0 | 80.0 | TI5799 | 5.0 | | <0.01 | <0.01 | <0.002 | <0.01 |

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Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata

| | |
|---|---|
| Identity Data | DEN 6802 — W1002 — 124-91 — HQ91 — MPP/T — OLYMPIC 91/08/10 08/11 — GRID 337. — 1/21 |
| | PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK |
| Survey Data | FT — 563.0 — 247. — -50. — 1707.7 — 342.3 — 2827.9 |

| FROM | TO | RECOVERY | ROCK TYPE | TEXTURES | GRAIN | STRUCTURE | STRUCT 2 | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|
| | | %REC | | FOLIATION | | S/F M/F | | KF LI | HE BI | MA AZ | BO CP CC | |
| | | %RQD | | | | L/F | | SI CL | EP | TE PY | MT MO | |

SAMPLE NO. INT.

| FROM | TO | |
|---|---|---|
| 00 | 06 | CASING |
| 06 | 10 | HIGHLY BROKEN CORE IN UNITS 2C AND 5 |
| | | ≈ 40% - 60% RESPECTIVELY. HE STAINED FRACTURES. |
| /PG1 10 | 20 | X 2C 0.2 0.5 F* |
| C | | 0.8 . |
| R | | PORPHYRITIC UNIT WITH WHITE ORTHOCLASE/PLAG PHENOCRYSTS |
| | | NARROW (<5mm) FRACTURES WITH HE STAINING. MINOR CALCITE/CLAY |
| | | AND ZEOLITES IN FRACTURES. PHENOS ≈3-5% OF UNIT |
| /NG1 17.5 | 18.2 | 3 $1050° |
| R | | COARSE GR KF DOMINANT UNIT |
| /PG1 20 | 30 | X 2C 0.5 0.4 F) F* |
| C | | 0.3 F* F* |
| R | | INTERVAL DOMINATED BY FRACTURES SUBPARALLEL TO CORE AXIS |
| | | FRACTURES 3.8' IN LENGTH, MOD HE STAINING |
| / 20.0 | 20.7 | SH010° |
| / 21.2 | 21.7 | SH020° |
| /NG1 24.9 | 25.1 | 3 $1060° |
| | | WHITE ORTHOCLASE/PLAG DOMINANT UNIT |
| / 28.0 | 29.3 | SH020° |
| /PG1 30 | 40 | 2C F+ FC |
| C | | F- F+ |
| R | | PORPHYRITIC UNIT AS ABOVE. KF/EP FOW |
| | | FRACTURES |
| /NG1 36 | 37 | ZONES OF MOD KF/EP ALTERATION, ≈ 30-40% ALTERATION |
| 39.5 | 40 | AS ABOVE |
| /PG1 40 | 50 | 2C 0.8 1.0 |
| C | | 0.3 |
| R | | UNIT AS ABOVE WITH LOW ANGLE FRACTURES |

Alpha Z = Z; Alpha I = I; Alpha O = Ø; Seven = 7; Two = 2; One = 1; Zero = 0; Alpha S = S

International Geosystems Corporation — Geological System — MAIN FORM — Geoform

Identifier Data: PROJECT: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION; WILLIAMS CREEK; W1002; 1/24-91; PAGE 2 OF 21

Survey Data: FROM / TO / MT/FT: FT

| FROM | TO | SAMPLE NO. | INT. | ROCK TYPE | RECOVERY / RQD | STRUCTURE / TEXTURE / GRAIN | FRACTURE COUNT | ALTERATION & MINERALIZATION | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|
| /NG/ 40. | 40.5 | CONTINUATION OF ZONE FROM | 39.5 – 40.0 | | | | | | |
| /NG/ 46.9 | 49.2 | HIGHLY FRACTURED INTERVAL. ROCK FRAGMENTS OF KF/EP ALTERED 2c ORIENTATION NOT POSSIBLE. | | | | | | | |
| /PG/ 50 | 60 | 2c | 0.7 0.5 | | | F= D* | E* F= | | |
| R | | PORPHYRITIC 2c UNIT CONTINUES. | | | | | | | |
| /NG/ 520 | 527 | 3 | | | | V 10 45° | | | |
| R | | EP ALTERED COARSE GR. KF DOMINANT UNIT | | | | | | | |
| /NG/ 58 | 60 | 2c | | | | F. | F. | | |
| L | | 3 | | | | | F. | | |
| R | | 2c UNIT WITH PATCHES OF 5, POSSIBLE APLITE $1 | | | | | | | |
| | | ≈ 30% 15 UNIT, 60% FINE GR. MAFIC RICH UNIT (1g?) CONTACTS | | | | | | | |
| | | IRREGULAR AND GRADATIONAL | | | | | | | |
| /NG/ 57 | 58 | 2c | | | | | | | |
| R | | 2c UNIT ≈ 1' ABOVE CONTACT HAS KF PHENOS (3%) AND Hb CLOTS (10%) | | | | | | | |
| /NG/ 58.6 | 58.7 | 3 | | | | | | | |
| R | | MED TO COARSE GR. KF DOMINANT UNIT | | | | | | | |
| /PG/ 60 | 70 | 2c | 0.6 0.6 0.3 | | | F. | F. F. | | |
| R | | PORPHYRITIC UNIT WITH WHITE PHENOS | | | | | | | |
| /NG/ 60 | 61.5 | 2c | | | | | | | |
| | | CONTINUATION OF 2c WITH VOLCANIC (1g) MATERIAL (58–60') | | | | | | | |
| /NG/ 63.5 | 63.7 | 3 | | | | $1 040° | | | |
| R | | KF DOMINANT UNIT | | | | | | | |
| /PG/ 70 | 80 | 2c | 0.9 0.5 0.2 | | | F* | F. F* | | |
| R | | CONTINUATION OF 2c UNIT | | | | | | | |

1 = One 2 = Two 3 = Seven 4 = Alpha A 5 = Alpha S 6 = Alpha G 7 = Alpha Z

81-130

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: DEN 6802 02 — W1002 — 124-91 — PRJ WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK — PAGE 32

Survey Data

Upper Tier Geodata

Lower Tier Geodata

| FROM | TO | MT/FT | RECOVERY %REC | RQD %RQD | ROCK TYPE | FOLIATION | FRACTURE COUNT / TYPE | STRUCT 1 ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION | SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 70.1 | 70.2 | | | | 3 | ORTHOCLASE/PLAG DOMINANT | | | $1 050 | ° | | | |
| 72.6 | 73.0 | | | | 3 | ORTHO/PLAG DOMINANT | | | $1 090 | ° | | | |
| 74.2 | 74.25 | | | | 3 | KF DOMINANT | | | $1 060 | ° | | | |
| 74.8 | 74.9 | | | | 3 | KF DOMINANT | | | $1 080 | ° | | | |
| 77.8 | 78.9 | | | | 3 | KF DOMINANT | | | $1 055 | ° | | | |
| 79.6 | 79.7 | | | | 3 | ORTHO/PLAG DOMINANT | | | $1 030 | ° | | | |
| 80 | 90 | | | | 2c | | | | | | | | |
| | | | | | | | | | | 3 | F. | | |
| | | | UNIT HAS REFW QTZ FLOODED, CLOTS OF MED | | | | | | | | | | |
| | | | TO COARSE GR HB ≈ 5% OF UNIT, POSS BLK $1 OF 5 PARALLEL TO CORE | | | | | | | | | | |
| 83.1 | 84.0 | | | | 2c | | | | | | | | |
| | | | | | 5 | | | | | | | | |
| | | | IRREGULAR $1 OF APLITE | | | | | | | | | | |
| | | | FINE GR, MAFIC RICH (≈30-40%) UNIT CONTACTS GRADUAL | | | | | | | | | | |
| 86.7 | 87.6 | | | | 2c | | | | | | | | |
| | | | | | 1g | | | | | | | | |
| | | | ZONE CONTAINS $1 WITH HIGH MAFIC CONTENT AS ABOVE (58-60') | | | | | | | | | | |
| 89.2 | 89.9 | | | | 3 | | | | $1 095 | ° | | | |
| | | | COARSE GR. KF DOMINANT UNIT | | | | | | | | | | |
| 90 | 100 | | | | 2c | | 0804 | | | | F* | F* | |
| | | | | | | | 01 | | | | | F. | |
| | | | 2c UNIT AS ABOVE WITH LOW ANGLE HE STAINED FRACTURES | | | | ANGLE | | | | | | |
| 96.1 | 96.3 | | | | 3 | KF DOMINANT | | | $1 025 | ° | | | |
| 98.2 | 98.4 | | | | 3 | KF DOMINANT | | | $1 030 | ° | | | |
| 100 | 110 | | | | 8 | 2c | 0608 | | | | F. | F. | |
| | | | | | 2 | 3 | 01 | | | | | | |
| | | | TYPICAL UPPER UNIT WITH HE STAINING AND ZERO CLEAR CAL FRACTURES | | | | | | | | | | |

0 = Zero 1 = One 2 = Two 3 = Seven 4 = Alpha 0 5 = Alpha 1 6 = Alpha 2 7 = Alpha 3

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| Identity Data | | | | | | |
|---|---|---|---|---|---|---|
| KEY I | FLAG: DEN | FORMAT VERSION: 6 8 0 2 | SPEC: 0 2 | IDENTITY OF PROJECT: W1002 | ID OF DRILLHOLE/TRAVERSE: 124-91 | PAGE 4 OF 21 |
| KEY I | FLAG: PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | WILLIAMS CREEK | |

| Survey Data | | |
|---|---|---|
| KEY S | MT/FT: FT | |

| Upper Tier Geodata | | | | | | |
|---|---|---|---|---|---|---|
| Unit of Recov.: FT 2 | RECOVERY: %REC | ROCK TYPE | TEXTURES: FOLIATION | FRACTURE COUNT: S/F M/F | ALTERATION & MINERALIZATION: KF LI HE BI | MA AZ BO CP CC |

| Lower Tier Geodata | | | | |
|---|---|---|---|---|
| Unit of RQD | %RQD | L/F | SI CL EP | TE PY MT MO |

| KEY | FLAG | FROM | TO | SAMPLE NO. / REMARKS | INT. / ROCK TYPE | FRACTURE | STRUCT / OTHER |
|---|---|---|---|---|---|---|---|
| I | NG1 | 1031 | 1040 | | 3 | | V1 030° |
| R | | | | COARSE GR ORTHOCLASE FELS DOMINANT UNIT | | | |
| I | NG1 | 109 | 110 | | 3 | | |
| | | | | COARSE GR KF DOMINANT | | | V1 040° |
| | | | | UPPER CONTACT 040° | | | |
| I | PG1 | 110 | 120 | | 2c | 0406 | |
| L | | | | | | 01 | |
| R | | | | 2c UNIT AS ABOVE | | | |
| L | NG1 | 110 | 1119 | | | | $1 020° |
| R | | | | COARSE GR KF DOMINANT UNIT ABOVE CONTINUES | | | |
| | | | | LOWER CONTACT 020° TO CORE | | | |
| I | NG1 | 1130 | 1137 | KF DOMINANT | 3 | | V1 025° |
| I | NG1 | 1179 | 1189 | | 3 | | |
| L | | | | EP ALTERED 3 UNIT HIGHER | | | |
| R | | | | MICA CONTENT THAN SEEN | | | |
| | | | | EARLIER | | | |
| I | NG1 | 1189 | 1196 | | 3 | | |
| L | | | | | | | F1 — — 2 4 |
| R | | | | HIGHLY FRACTURED AND EP/CLAY ALTERED | | | |
| | | | | UNIT 3 IN SH OR F1 ZONE. HIGH CLAY AND CALCITE CONTENT ≈40-50% | | | |
| | | | | 5% RELIC KF | | | |
| I | NG1 | 1196 | 120 | | 3 | 0.1 | 2 . |
| L | | | | | | 0.2 | 2 2 2 |
| R | | | | HIGHLY ALTERED UNIT 3. ABUNDANT FRAGMENTS OF BROKEN FELDSPAR QTZ | | | |
| | | | | X-TALS MICAS HAVE ALL GONE TO CL COMPETENT UNIT WITHIN LARGER FAULT | | | |
| | | | | ZONE | | | |
| I | PG1 | 120 | 130 | | 2c | 0101 | + . . . |
| L | | | | | | 02 | + 1 |
| R | | | | MOD COMPETENT 2c WITH SLIGHT KF/EP ALTERATION THROUGHOUT | | | |
| I | | 1245 | 1246 | | 3 | | $1 040° |
| R | | | | KF DOMINANT UNIT | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEY IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DEN 6 B 0 2 0 2 | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 | ID of DRILLHOLE/TRAVERSE PREFIX TYPE NUMBER: 1 24 -91 | PAGE 52 | OF

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | DRILLING BY: WILLIAMS CREEK

Survey Data: TURN GPT 300 m Collar | FROM (Marks Loc of Feature) | TO | MT/FT: FT | TOTAL DEPTH-LENGTH | AZM DECLINATION FROM TRUE N | V-ANG REC'D DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING REC'D SOUTH | EASTING REC'D WEST | ELEVATION REC'D SUB-SEA

Upper Tier Geodata: FLAG NAM SCL | Unit of Recov | Unit of Length: FT | RECOVERY %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI | ALTERATION & MINERALIZATION DEFAULT SUITES: HE BI | MA AZ | BO CP CC

Lower Tier Geodata: FLAG NAM SCL | Unit of ROD | ROD %ROD | L/F | SI CL | EP | TE PY | MT MO

GRAPHIC | Any 2 = Flat or Flag = Composite MAX or MIN or 001 = 999 | Any TYP 01-99 as desired

| FROM | TO | SAMPLE NO. | INT. | RECOVERY (5 = Subject Spec.?) | HASH TOTAL |
|---|---|---|---|---|---|
| NG1 | 120 | 1218 | 3 | | |

CONTINUATION OF ABOVE UNIT (119.6 - 120')

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 127.7 | 130 | G | 2c | F/ — — |

FAULT GOUGE EP/KLAY/CALCITE RICH, WITH FRAGMENTS (30 - 40%) OF HIGHLY ALTERED 2c GOUGE MATRIX IS MED GR ANGL INCOMPETENT ROCK FRAGMENTS ARE SUB-ANGULAR TO SUB-ROUNDED

| | | | | | |
|---|---|---|---|---|---|
| PG1 | 130 | 140 | | 2c | F. ) |

TYPICAL 2c UNIT WITH WHITE PHENOS OF ORTHOCLASE/PLAG ± QTZ

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 130 | 132.6 | 5 | 0304 | S1 040° |

KF DOMINANT UNIT MARKS THE F/W OF F1 MOD COMPETENT UNIT

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 135.9 | 136.2 | 3 | | S1 040 |

KF DOMINANT UNIT

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 139 | 140 | 2c | | |

QTZ/KF FLOODED 2c UNIT TEXTURE AS ABOVE 1 2 * 1
BUT LOWER (<15%) MAFICS

| | | | | | |
|---|---|---|---|---|---|
| PG1 | 140 | 150 | 2c | 0602 0.3 | DF) FC 2 +D) |

CONTINUATION OF ABOVE QTZ/FELDSPAR FLOODED 2c UNIT

| | | | | | |
|---|---|---|---|---|---|
| NG1 | 149.3 | 150 | 2c | 0802 02 | F. F. ) F. |

UNALTERED 2c UNIT WITH WHITE PHENOS
TYPICAL 2c UNIT. MINOR HEMATITE STAINED FRACTURES

1 = One | 2 = Two | 3 = Seven | Ø = Alpha O | I or 1 = Alpha I | Z = Alpha Z | 5 = Alpha S | 0 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Field | Entry |
|---|---|
| D E N (Format version / Spec) | 6 B 0 2 0 2 |
| Identity of project | W1002 |
| Drillhole | 124-91 |
| Page | 62 / |
| P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK |
| MT/FT | FT |
| Upper tier | %REC · ROCK TYPE · FOLIATION · S/F M/F · KF LI HE BI MA AZ BO CP CC |
| Lower tier | %RQD · L/F · SI CL EP TE PY MT MO |

| Key | Flag | FROM | TO | SAMPLE-NO. / Remarks | INT. | Fracture | Struc | Alteration |
|---|---|---|---|---|---|---|---|---|
| I | PG1 | 150 | 160 | | 2c | 0703 | | |
| L | | | | | | 0.2 | | |
| R | | | | CONTINUATION OF ABOVE 2C UNIT WITH IRREGULAR MED GR Hb CLOTS 1-2% OF UNITS | | | | |
| I | PG1 | 160 | 170 | | 2c | 0302 | | F. F. |
| L | | | | | | 0.4 | | . F. |
| R | | | | 2C UNIT AS ABOVE CONTINUES COMPETENT UNALTERED UNIT | | | | |
| I | NG1 | 165.7 | 166.0 | | 3 | | S1 055° | |
| R | | | | WHITE PLAG/ORTHOCLASE DOMINANT UNIT. MINOR KF/EP. | | | | |
| I | NG1 | 167.9 | 168.6 | | 2c | | SH 030° | F) F) |
| L | | | | | | | | 1 F+ |
| R | | | | CL RICH 2C UNIT IN MINOR SH. | | | | |
| I | PG1 | 170 | 180 | | 2c | 1103 | | F. F. |
| L | | | | | | 03 | | F. |
| R | | | | MOD COMPETENT UNALTERED 2C UNIT | | | | |
| I | NG1 | 172 | 174.3 | | 3 | | SH — — ) | . |
| L | | | | | | | | 1 + |
| R | | | | MOD CL ALTERED 2C/3 UNIT. HIGHLY FRACTURED UNIT. LOWER CONTACT IS HIGHLY SHEARED WITH HIGH CL/CLAY/CALCITE CONTENT | | | | |
| I | PG1 | 180 | 190 | | 2c | 0506 | | F. F. |
| | | | | | | 03 | | . F. |
| | | | | COMPETENT, UNALTERED 2C UNIT WITH WHITE PHENOS OF FELDSPAR/QTZ | | | | |
| I | NG1 | 181.9 | 182.0 | | 3 | | S1 070° | |
| R | | | | COARSE GR. KF DOMINANT | | | | |
| I | NG1 | 184.5 | 184.6 | | 3 | | S1 075° | |
| | | | | COARSE GR WHITE PLAG/ORTHOCLASE DOMINANT | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Field | Value |
|---|---|
| Identity of project | W1002 |
| ID of drillhole | 124-91 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Property | WILLIAMS CREEK |
| Unit of length | FT |
| Page | 7 / 21 |

Upper tier geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC
Lower tier geodata: %RQD, L/F, SI, CL, EP, TE, PY, MT, MO

| Key | Flag | From | To | Rock type | Fracture count (S/F M/F) / L/F | Struct | Alteration |
|---|---|---|---|---|---|---|---|
| / | PG1 | 190 | 200 | 2c | 04 03 | | F. / F. |
| L | | | | | 01 | | . / F. |
| R | | | | COMPETENT 2c UNIT AS ABOVE, MINOR HE STAIN ON FRACTURES | | | |
| / | PG1 | 200 | 210 | 2c | 05 03 | | F. / F. |
| L | | | | | 04 | | . / F. |
| R | | | | MOD FRACTURING, MINOR QTZ/FELDSPAR FLOODED PATCHES ASSOCIATED WITH 3 81 | | | |
| / | NG1 | 201.3 | 202.2 | 3 | | | |
| R | | | | WHITE FELDSPAR DOMINANT UNIT | | | |
| / | NG1 | 202.2 | 204 | 2c | | | F. / F. |
| L | | | | | | | ) / F. |
| R | | | | FELDSPAR/QTZ FLOODED ZONE. MAFIC CONTENT ≈ 5-10% AS FINE GR DISSEMINATIONS | | | |
| / | NG1 | 205.9 | 206.0 | 3 | | S1 030° | |
| R | | | | WHITE FELDSPAR/QTZ DOMINANT | | | |
| / | PG1 | 210 | 220 | 2c | 01 04 | | F. / F* |
| L | | | | | 02 | | ) / F. |
| R | | | | COMPETENT 2c UNIT WITH MINOR HE STAINING ON FRACTURES MINOR IRREGULAR CLOTS OF MED GR Hb (<1% OF UNIT) FRACTURES 20-30° | | | |
| / | NG1 | 215 | 215.3 | 2c | | SH 060° | |
| R | | | | KF/EP E ON FRACTURE | | | |
| / | PG1 | 220 | 230 | 2c | 02 03 | | F. / F+ |
| L | | | | | 02 | | D = / F. |
| R | | | | UNIT CONTAINS HE STAINED FRACTURES AT 30-40° MINOR KF/EP E ON MINOR FRACTURES CL CONTENT IS HIGHER THAN ABOVE INTERVAL | | | |

International Geosystems Corporation — Geolog System — "IN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identifier Data: KEY I— DEN 6802 02 | FLAG PRJ | FORMAT VERSION / SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) W1002 | ID OF DRILLHOLE, TRAVERSE, PROFILE, TYPE, NUMBER 124-91 | SIZE OF CORE OR HOLE | GEOLOGGED YY MM DD BY | ASST BY | COMPLETED MM DD | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE OF 821

WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: TURN OFF DDD=Collar | FROM Meters Up of Feature | TO | MT/FT FT | TOTAL DEPTH LENGTH | AZM (LEAVE FROM TRUE) | V-ANG NEG=DOWN | HASH TOTAL (AZM+TO+AZM+V-ANG+FROM+TO) NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=SUB-SEA

Upper Tier Geodata: FLAG NAM SCL | Unit of Recov | Unit of Length F 3 2 | RECOVERY %REC | ROCK TYPE | TYPIFYING MINS | GALMAT | TEXTURES | GRAIN | FRACTURE COUNT | STRUCT 1 ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT NOTES: QZ BI CY CB MG AK PY CP GL YY | SUMMARY

Lower Tier Geodata: FLAG NAM SCL | M or F | Unit of RQD %RQD | RQD | ENV | RTQ | TXT | FOLIATION | L/F | STRUCT 2 ID | STRIKE AZM | DIP | KF MU CL EP HE TE PY MT MO SI

GRAPHIC

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| 2288 | 2293 | | | KF DOM. MAFIC UNIT. KF FLOOD BASALT ZC UNIT. CONTACTS ARE GRADATIONAL. |
| 2293 | 230 | | ZC | QTZ/FELSPAR FLOOD BASALT ZC UNIT WITH HIGH CL CONTENT ALONG FRACTURES. MINOR MOVEMENT ALONG FRACTURES (≈ 1-5 mm) FRACTURE PATTERN APPROACHING CRUMBLE CLEAVAGE TYPE |
| 230 | 240 | | ZC | CONTINUATION OF ABOVE UNIT. MINOR SH ZONE. MINOR BLEACHING/CLAY ALTERATION OF FELDSPARS. FRAGMENTS OF ZC IN MF/CL MATRIX ALONG FRACTURE ZONES. FRACTURE ARE IRREGULAR IN SHAPE AND ORIENTATION. |
| 2375 | 2376 | | | FINE GR MB RICH ZONE ≈ 1' WIDE CONTAINS CONCRETE TO MED GR QTZ/FELDSPAR FRAGMENTS (≈ 30-40%) |
| 2376 | 2378 | | | FINE GR, LIGHT PINK, CLAY/MF/CALCITE RICH SH ZONE. SH 085 |
| 2385 | 2387 | | | KF DOM. MAFIC UNIT. SH 085° |
| 240 | 250 | | ZC | MOD COMPETENT UNIT WITH MINOR MF FRACTURES |
| 2420 | 2428 | | ZC | FRACTURED UNIT WITH FRAGMENTS ≈ 5mm TO 3cm IN MF STAINED MATRIX. IRREGULAR FRACTURE PATTERN. SH 050° |
| 2437 | 244 | | ZC | QTZ/PEG FLOODED ZONE. CLAY/CALCITE ALTERATION THROUGHOUT. INTENSE ≈ 10-15% |

1 = One, 2 = Two, 7 = Seven, Ø = Alpha O, 1 or I = Alpha I, Z = Alpha Z, 0 = Zero, S = Alpha S

International Geosystems Corporation — Geolog System — ***IN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILLHOLE / TRAVERSE: PREFIX / TYPE / NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY / MM / DD | BY | ASST BY | COMPLETED MM / DD | DRILLING BY | YY | STARTED MM / DD | COMPLETED MM / DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | D E N | 6 8 0 2 0 2 | | W1002 | 124-91 | | | | | | | | | | | | | | | 92 |
| I | P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | WILLIAMS CREEK | | | | | | | | | |

| S | TURN CPT 000 = Collar | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG NEG = DOWN | HASH TOTAL (+ DIP + AZM + V-ANG + N + E + EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | | |

| | FLAG | RECOVERY TMED MIN | ROCK ROCK TYPE | TYPIFYING MINS TM1 TM2 | GAL/MAT GM1 GM2 | TEXTURES TX1 TX2 FV | GRAIN CY C/MP | FRACTURE COUNT 1 2 | Dip Type T1 | STRUCT ID | STRUCT AZM | DIP To Hang | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY CB MC XX PY | CP | CL | YY | SUMMARY FA AI MC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL Unit of Recov / Unit of Length F T . 2 | %REC | ROCK TYPE | | | FOLIATION | | S/F M/F | | | | | KF | LI | HE BI | MA AZ | BO | CP CC | |

| | FLAG | M or F | RQD Age Form | INV BTQ | CORE TM1 QM1 | TX1 TX2 Sx Rx Sv | Qc | R Tm S LI | Dip Type T2 | STRUCT ID | STRUCT AZM | DIP To Hang | XF | MU | CL EP | HE | Hw Alt PR | MO SL | Hw Alt | Hem1 | Hem2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM SCL Unit of RQD | %RQD | | | | | | L/F | | | | | SI | CL | EP | TE | PY | MT | MO | | |

GRAPHIC

| A | Any Zone Rock or Hole in CONGDON MAP or SOIL = 999 |
|---|---|
| H | 01 Tag Zone Rock in SLIVER pmm |
| F | Tag Zone Rock any no. 01-99 as det |

| | FROM | TO | SAMPLE NO. | INT. | RECOVERY % Sample Sent | ROCK TYPE | FRACTURE COUNT | STRUCTURE | ALTERATION & MINERALIZATION |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | From To | | | | |
| / PG1 | 250. | 260. | | 2c | | | 2405 01 | | |
| < | | | | | | | | | |
| R | | | UNIT AS ABOVE WITH HE E ON FRACTURES | | | | | | |
| / NG1 | 250 | 251.4 | | 2c | | | | SH045° | |
| < | | | | | | | | | |
| R | | | HIGHLY SHEARED CC RICH SHEAR ZONE | | | | | | |
| | | | CLASTIAN IMAS MASKED TOR IGNEOUS ROCK COMPOSITION | | | | | | |
| | | | 10-20% ROCK FRAGMENTS, 80-90% CK/CALCITE/HE MATRIX | | | | | | |
| / PG1 | 260 | 270 | | 2c | | | 0.6 0.2 0.0 | | |
| < | | | | | | | | | |
| R | | | FRACTURED UNIT WITH HE E ON FRACTURES | | | | | F. F) D*F. | |
| / NG1 | 260 | 260.4 | | 3 | | | | 31045° | |
| R | | | MED GR XF DOMINANT | | | | | | |
| / NG1 | 262.5 | 264 | | 3 | | | | 31030° | |
| R | | | MOD FRACTURED HE STAINED, MED TO CO ARSE GR ORTHOCLASE/PLAG DOMINANT | | | | | | |
| | | | UNIT | | | | | | |
| / NG1 | 264.5 | 267 | | 6 2c | | | | | |
| < | | | | 4 5 | | | | | |
| R | | | MOD COMPETENT 2c UNIT WITH 31/<075 OF 5 MATERIAL | | | | | | |
| | | | IRREGULAR CONTACTS/MARGINS | | | | | | |
| / NG1 | 267.7 | 267.8 | | 2c | | | | SH060° | |
| | | | SH ZONE AS DESCRIBED ABOVE (250 – 251.4) | | | | | | |
| / PG1 | 270 | 280 | | 2c | | | 0.4 0.4 0.0 | F. F) F*F. | |
| | | | UNIT HAS HE/CLAY/CALCITE E ON FRACTURES | | | | | | |
| | | | MOD COMPETENT UNIT | | | | | | |

1 2 3 4 5 6 7

0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 1 or I = Alpha I 2 = Alpha Z $ = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| | |
|---|---|
| Identification Data | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION; WILLIAMS CREEK; W1002; 124-91; 1021 |
| Survey Data | FT |
| Upper Tier Geodata | %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC |
| Lower Tier Geodata | %RQD; L/F; SI CL EP TE PY MT MO |

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| 278. | 279. | | 2c | FRACTURED 2c UNIT IN FINE GR HE RICH MATRIX; FRAGMENT DC CHLORITIC/CARB ALTERATION ≈ 20% |
| 280 | 290 | | 2c | UNIT AS ABOVE |
| 283.8 | 286 | | 2c | QTZ/FELDSPAR FLOODED 2c UNIT. MAFICS = 3-5%; CONTACT GRADATIONAL. NO PEGMATITIC TEXTURES |
| 288.7 | 290 | | 3 | COARSE GR KF DOMINANT UNIT |
| 290 | 300 | | 2c | UNIT AS ABOVE WITH HE ON FRACTURES |
| 291 | 291.8 | | | QTZ/FELDSPAR FLOODED 2c UNIT, 10-15% MAFICS |
| 291.8 | 292.6 | | 2c | UNIT HAS ≈ 40% MAF TO COARSE GR HBD CLOTS |
| 294.9 | 295.3 | | 3 | KF DOMINANT UNIT |

Z = Alpha Z; I or I = Alpha I; Ø = Alpha O; 3 = Seven; 2 = Two; 1 = One; 0 = Zero; $ = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: DEN 6802 W1002 — PRJ WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — DRILLING BY WILLIAMS CREEK — 1/24-91 — PAGE 1/21

Survey Data: STRN CPT 000 m Collar — FROM — TO — MT/FT FT — TOTAL DEPTH LENGTH — AZM — CLOCKWISE FROM TRUE — V-ANG NEG IF DOWN — HASH TOTAL NOT INCLUDING ANY BLANK FIELDS — NORTHING NEG SOUTH — EASTING NEG WEST — ELEVATION NEG SUB-SEA

Upper Tier Geodata: FLAG NAM SCL — Unit of Recov — Unit of Length FT * 2 — RECOVERY T MOD MIN — %REC — ROCK ROCK TYPE — TYPIFYING MINS TM1 TM2 — GALMAT GM1 GM2 — TEXTURES TX1 TX2 — GRAIN FI CL CM MP — FOLIATION — FRACTURE COUNT S F — STRUCT ID — STRIKE AZM — DIP — KF — LT — ALTERATION & MINERALIZATION DEFAULT SUITES CY CB MG XX PY — HE BI — MA AZ — BO CP CC — SUMMARY

Lower Tier Geodata: FLAG NAM SCL — Unit of RQD — %RQD — RQD — AZM Form — ENV — ATG — Caliber — TM1 — GM1 — TX1 — TX2 — Sh — Rw — Sh %Oc — L/F — STRUCT ID — AZM — DIP — SI — CL — ALTERATION & MINERALIZATION DEFAULT SUITES CL EP — HE — TE PY — MA AZ — MT MO — SU — How Abd — How1 — How2

GRAPHIC

A — Any Zone Flag or Flag 0 Composite (MAX of MIN of 001 – 006) — RECOVERY — %R in Sample Serial No. — FROM — TO — SAMPLE NO. — INT. — HASH TOTAL

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| PG1 | 300 | 310 | 2c | 0.4 0.4 F. F) D* F. 0.5 |
| | | | 2c AS ABOVE WITH HE STAINING ON FRACTURES | |
| NG1 | 307.4 | 307.9 | 3 | $1045° |
| | | | COARSE GR KF DOMINANT | |
| NG1 | 306 | 307 | 3 2c | |
| | | | 7 5 | |
| | | | QTZ/FELDSPAR FLOODED BY 5. CONTACTS GRADATIONAL | |
| PG1 | 310 | 320 | 2c | 0.5 0.7 0.1 |
| | | | MOD COMPETENT UNIT WITH HE E AND ZEOLITES/CLAY/CALCITE E ON FRACTURES | |
| NG1 | 314.9 | 315.5 | 4 2c | |
| | | | 6 5 | |
| | | | 2c UNIT INTERLAYERED BY 5. IRREGULAR, GRADATIONAL CONTACTS | |
| NG1 | 316.3 | 316.9 | 2c | SH 030° F? + D. |
| | | | KF/QTZ FLOOD 2c UNIT. KF ALTERATION DEVELOPED ALONG FRACTURES. MOD CL ALTERATION | 2 = F+ |
| NG1 | 316.9 | 319 | 8 3 | |
| | | | 2 2c | |
| | | | COARSE GR 3 UNIT WITH PARTIALLY ABSORBED 2c MATERIAL MAFIC CONTENT 10 – 15% AS B1 0/CC | |
| PG1 | 320 | 330 | 2c | 0.2 0.2 F. F) D. |
| | | | 0.0 | |
| | | | TYPICAL 2c UNIT WITH WHITE PHENOS HE E AND ZEOLITE/CLAY/CALCITE E ON FRACTURES | |
| NG1 | 320.2 | 320.5 | 3 | $1085° |
| | | | COARSE GR KF DOMINANT UNIT | |

1 = One, 2 = Two, 7 = Seven, Ø = Alpha O, Loi = Alpha I, Z = Alpha Z, 0 = Zero, S = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | | FORMAT VERSION | SPEC | IDENTITY OF PROJECT (OR SUB-PROJECT) (UNIQUE) | DDH ORIGINAL TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | YY | MM | DD | GEOLOGGED BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Identity Data | D | E | N | 6 | 8 | 0 | 2 | 0 | 2 | W1002 | | | 124-91 | | | | | | | | | | | | | | | | | 121 |
| | P | R | J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | | |

| | KEY | FLAG | FROM (Metres Log at Feature) | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM (SEE SCHEMA FROM TRUE N) | V-ANG (NEG IS DOWN) | HASH TOTAL (NOT INCLUDING ANY BLANK FIELDS) | NORTHING (NEG IS SOUTH) | EASTING (NEG IS WEST) | ELEVATION (NEG IS SUB-SEA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Survey Data | S | | | | FT | | | | | | | |

| | KEY | FLAG | RECOVERY | ROCK | FYPEVENS MIN1 | FYPEVENS MIN2 | GALMAT COM1 | TEXTURES TX1 | TEXTURES TX2 | GRAIN FI | GRAIN CI | GRAIN C_MP | FRACTURE COUNT 1 | FRACTURE 2 | STRUCT ID | STRUCT AZM | ALTERATION & MINERALIZATION DEFAULT SUITES CP | GL | YY | SUMMARY Fx | Ax | Mx |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Tier Geodata | | NAM SCL | Unit of Recov. | %REC | | | | FOLIATION | | | | | S/F | M/F | | | KF | LI | HE | BI | MA | AZ |

| | KEY | FLAG | ROD | ROD ACL Comp | ENV | RTQ | Chlor | YM1 | CAR1 | TX1 | TX2 | Sx | Ax | Sv | S_IN | S_DP | STRUCT ID | STRUCT AZM | T Type | KF | MJ | CL | EP | HE | Hw Alter | FB | MO | SI | Hw Alter | HOA | How |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower Tier Geodata | L | NAM SCL | Unit of ROD | %RQD | | | | | | | | | | | L/F | | | | | SI | | CL | EP | | TE | PY | MO | | | |

GRAPHIC

| | KEY | FROM | TO | SAMPLE NO. | INT. |
|---|---|---|---|---|---|
| | NG | 322.9 | 323.0 | | 3 |
| | R | | | KF DOMINANT UNIT | |
| | NG | 326.4 | 330.0 | | 3 |
| | R | | | COARSE GR WHITE PLAG/ORTHOCLASE DOMINANT UNIT | |
| | R | | | MAFIC CONTENT ≈ 10% UNIT BECOMES CC RICH NEAR FW CONTACT WITH 2C | |
| | PG | 330 | 340 | | 2C |
| | L | | | | 0.2.1.1 |
| | R | | | | 0.1 |
| | R | | | CONTINUATION OF 2C UNIT AS ABOVE | |
| | NG | 330.1 | 330.2 | | 3 |
| | R | | | COARSE GR KF DOMINANT | |
| | NG | 338.4 | 338.7 | | 5 |
| | R | | | FINE GR KF/NEI STAINED $1, NO ORIENTATION POSSIBLE | |
| | PG | 340 | 350 | | 2C |
| | L | | | | 0.8.0.8 |
| | R | | | | 0.0 |
| | R | | | UNIT AS ABOVE CONTINUES. MINOR ZEOLITE/CALCITE ON NON-HE STAINED FRACTURES | |
| | NG | 341.0 | 341.3 | | 2C |
| | R | | | NARROW SH ZONE CL/EP RICH FINE GR MATRIX WITH FINE TO MED GR KF/PLAG FRAGMENTS (MATRIX ≈ 30%) | |
| | NG | 347.7 | 347.8 | | 3 |
| | R | | | ZEOLITE/CLAY/CALCITE ALTERED MED GR $1 | |
| | NG | 348.5 | 348.9 | | 2C |
| | R | | | HE KF/EP ON 0.4' WIDE SH MOVEMENT VERY MINOR (1-5mm) | |
| | NG | 349.7 | — | | 2C |
| | R | | | NARROW SH WITH CC ≈ 5mm WIDE | |

1 = One 2 = Two 3 = Seven Ø = Alpha O 1 or I = Alpha I 2 = Alpha Z 5 = Alpha S 0 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX TYPE NUMBER | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 | 0 2 | W1002 | 124-91 | 5 | 21 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | WILLIAMS CREEK | | |

Survey Data: MT/FT: FT

Upper Tier Geodata: Unit of Recov: FT; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI; MA AZ BO CP CC

Lower Tier Geodata: Unit of RQD; %RQD; L/F; SI CL EP; TE PY MT MO

| KEY | FLAG | FROM | TO | SAMPLE NO. | INT. | L/F / FRACTURE | STRUCT | KF | HE / EP |
|---|---|---|---|---|---|---|---|---|---|
| 1 | PG1 | 350. | 360. | | 2c | 0.3 0.4 | | F+ | F+ |
| L | | | | | | 0.2 | | | ) F+ |
| R | UNIT AS ABOVE WITH LOW ANGLE FRACTURES WITH MOD HE E. MINOR AMOUNTS OF MOVEMENT ALONG FRACTURES | | | | | | | | |
| 1 | NG1 | 359.1 | 359.8 | | 2c | | SH 040° | | |
| R | MINOR SH ZONE WITH FINE GR HE RICH MATRIX. 2c FRAGMENTS ≥ 80% OF INTERVAL | | | | | | | | |
| 1 | PG1 | 360. | 370. | | 2c | 0.4 0.4 | | F+ | F+ |
| L | | | | | | 0.4 | | | ) F+ |
| R | MOD FRACTURED UNIT AS ABOVE WITH HE E AND ZEOLITE/CALCITE E ON FRACTURE SURFACES. VERY MINOR SS DEVELOPMENT ON SOME FRACTURES | | | | | | | | |
| 1 | NG1 | 366.9 | 367.3 | | 3 | | SH 060° | | |
| R | COARSE GR. KF DOMINANT UNIT | | | | | | | | |
| 1 | PG1 | 370 | 374.5 | | 2c | | | F• | F+ |
| L | | | | | | | | | ) F• |
| R | MOD COMPETENT 2c UNIT AS ABOVE | | | | | | | | |

81-130

International Geosystems Corporation — Geology System — MAIN FORM — Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|
| D E N | 6 8 0 2 | 0 2 | W1002 | 124-91 | 14 | 21 |

| FLAG | PROJECT | LOCATION |
|---|---|---|
| P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK |

Unit of Length: FT

Column headings: %REC / %RQD — ROCK TYPE — FOLIATION — S/F M/F — L/F — STRUCT — KF LI HE BI MA AZ BO CP CC — SI CL EP CA TE PY MT MO — FROM — TO — SAMPLE NO. — INT.

| Key | Flag | From | To | Recovery / Sample | Rock Type | Struct | Angle | Alteration & Mineralization |
|---|---|---|---|---|---|---|---|---|
| R | | | | NOTE - CORE SPLIT BEFORE LOGGING - FOOTAGES APPROX [illegible] | | | | |
| / | P | 374.50 | 384.50 | | 2c | | | E- |
| L | | | | | | | | / OC. |
| R | | | | FAIR WHITE PHENOCRYSTS; BELOW 383 BECOMES STRONGLY FOLIATED; | | | | |
| / | N1 | 376.60 | 378.20 | X | 6 | D/ | 050° | |
| R | | | | CARMACK GROUP DYKE - FINE HB PHENOCRYSTS IN A DARK FV-HB MATRIX; | | | | |
| / | P | 384.50 | 394.50 | | 2c | FO | 150 | C- o o o o o |
| L | | | | | | | | / o o o |
| R | | | | BI>HB | | | | |
| / | N1 | 384.90 | 385.10 | X | 1d | | | o o o o |
| L | | | | | | | | o |
| / | N1 | 386.00 | 387.10 | | 1a | | | C. o o o |
| L | | | | | | | | D- |
| R | | | | IN PART COARSE GRAINED; BI>HB? | | | | |
| / | N2 | 387.10 | 387.70 | | 1b | SH | 60° | |
| L | | | | | | | | <+ |
| R | | | | SHEARED PROPYLITIC ALTERED - FELDSPARS ALL ALTERED TO CY AND CA; FAULT - FAIR | | | | |
| / | N3 | 388.00 | 389.00 | X | 3 | | | |
| R | | | | OCC. <10MM HE BRECCIA | | | | |
| / | N4 | 389.00 | 389.50 | | 2c | SH | 45° | |
| R | | | | STRONG 20MM SHEAR ON LOWER CONTACT; | | | | |
| / | N5 | 389.50 | 390.40 | X | 1a | | | D- o o D+ |
| L | | | | | | | | D+ o o o |
| R | | | | | | | | |

International Geosystems Corporation — Geology System — MAIN FORM — Geoform

| Identity of Project | DDH / Traverse | Page |
|---|---|---|
| W1002 | 124-91 | 152 |

**WESTERN COPPER HOLDINGS – THERMAL EXPLORATION** — **WILLIAMS CREEK**

Survey Data: FT

Upper Tier Geodata: %REC — ROCK TYPE — FOLIATION — S/F M/F — KF — LI — HE — BI — MA — AZ — BO — CP — CC

Lower Tier Geodata: %RQD — L/F — SI — CL — EP — TE — PY — MT — MO

| Key | Flag | FROM | TO | SAMPLE NO. | INT. | Structure | Alteration / Mineralization |
|---|---|---|---|---|---|---|---|
| R | | | | 391.7–392.3 – WEAK SHEAR (LOW) ANGLE | | | |
| / | N6 | 392.35 | 394.00 | X | 1c | | C> 0 0 D* |
| L | | | | | | | D* |
| R | | | | BIO NR?? ; FINER GRAINED TO LOWER CONTACT; SY- DATCHY | | | |
| / | N7 | 394.00 | 394.50 | X | 3 | | 0 0 |
| L | | | | | | | |
| D | | | | | | | |
| / | P | 394.50 | 404.00 | | 1a | | C* 0 D– DC |
| L | | | | | | | CC |
| R | | | | COARSE, SY ... LIGHT COLORED AM; NARROW BANDS, ... GRAINED | | | |
| | | | | PATCHY SX; WEAK MIN'Z; BELOW 402.4 INCREASED BI; | | | |
| / | N1 | 396.00 | 396.50 | X | 3 | D/ D50° | 0 |
| R | | | | | | | C– |
| / | N2 | 400.20 | 402.40 | ? | 3 | | 0 |
| L | | | | | | | C– |
| R | | | | UNIT 3 FLOODED; | | | |
| / | P | 404.00 | 408.00 | | 3 | | 0 0 0 0 0 |
| L | | | | | | | D. |
| R | | | | DYKE – CONTACTS LOST | | | |
| / | P | 408.00 | 418.00 | | 1b | | C– 0 0 D– |
| L | | | | | | | D– 0 |
| R | | | | UNIT 1b – LIGHT COLORED – LOOKS GNEISSIC 2c WITH < 20% NARROW BANDS | | | |
| | | | | -40MM OF LIGHT COLORED 1c USUALLY WITH WEAK SX; | | | |
| | | | | OVERALL VERY WEAK MIN'Z; | | | |
| / | N1 | 411.1 | 411.75 | 8 | 3 | SH 50° | 0 0 0 0 0 |
| L | | | | | | | D. |
| R | | | | SHEARED | | | |
| / | N2 | 413.10 | 414.00 | 9 | 3 | | |
| L | | | | | | | |
| R | | | | LIGHT-MED GRAY, FINE MAFICS WITH WEAK KF AND QZ. | | | |

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FORMAT VERSION: 6 9 0 2 0 2 | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 | DRILLHOLE-TRAVERSE: 124-91 | PAGE: 16 21

PROJECT: WESTERN COPPER HOLDINGS — THERMAL EXPLORATION | WILLIAMS CREEK

| FROM | TO | MT-FT | TOTAL DEPTH LENGTH |
|---|---|---|---|
| | | FT | |

| FROM | TO | RECOVERY %REC | ROCK TYPE | FOLIATION | S/F M/F | STRUCT | STRIKE AZM | DIP | ALTERATION & MINERALIZATION | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|
| 418400 | 428400 | | 1a | | | FO | | 70° | CA 0 DC | 0 DC 0 |
| | | | | | | | | | DC | / 0 |
| | | BELOW TOP 1b LIGHT COLORED BANDS DECREASING | | | | | | | | |
| | | 420' 1a1 - MED-COARSE 2ND FEL ANDS INTERCALATED | | | | | | | | |
| | | FINE-GR WHITISH WEAK SY AND CHLOR ID THIS SECTION | | | | | | | | |
| 419.70 | 420.30 | | | | | SH | | 20° | | |
| | | TWO - 15 MM HE SHEARS; MODERATE FAULT; | | | | | | | | |
| 428.00 | 438.00 | | 1a | | | | | | CC D* D* | |
| | | | | | | | | | DC | |
| | | AS ABOVE; BELOW 431.70 - 440MM SILLS OF UNIT 2C; THE ABOVE 1a | | | | | | | | |
| | | THIS SECTION COULD BE CALLED 1a; SECTION DARK COLOR-HIGH BIOTITE | | | | | | | | |
| 431.50 | 434.00 | | 1a | | | | | | C* 0 B? D? | |
| | | | | | | | | | D* 0 / 0 | |
| | | FAIR-MOD DIFFER-WATER AND FINE BLEK MG ANU CT | | | | | | | | |
| 436.30 | 438.00 | | 1a | | | | | | C-C- 0 D- | |
| | | | | | | | | | D- / 0 | |
| | | BT>HB AND HBKBT LIGHT COLORED; WEAKER FAT CT | | | | | | | | |
| 438.00 | 448.00 | | 1b1 | | | FO | | 60° | CC 0 0 D* | |
| | | | | | | | | | DC | |
| | | 1b - LIGHT COLORED WEAKLY GNEISSIC WITH <30% DARKER BANDS AND | | | | | | | | |
| | | STRONG GNEISSIC TEXTURE; WEAK MINZ; CORE NICELY BROKEN BELOW | | | | | | | | |
| | | 439 FT - LOOKS WEA AND NOT FAULTED | | | | | | | | |
| 444.40 | 445.50 | | 1b1 | | | | | | C 0 0 0 | |
| | | | | | | | | | C | |
| | | WEAK KF AND QZ; | | | | | | | | |
| 447.00 | 448.00 | | 1b1 | | | | | | CC 0 0 0 | |
| | | | | | | | | | C- | |

1 = Alpha Z | 2 = Alpha | 3 = Alpha C | 4 = Num | 5 = Num Z | 6 = Num C | 7 = Chars | 8 = Alpha S

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| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILLHOLE TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|
| D E N | 6 8 0 2 0 | 2 | W1002 | 124-91 | 1 | 72 |

| | |
|---|---|
| P R J | WESTERN COPPER HOLDINGS — THERMAL EXPLORATION — WILLIAMS CREEK |
| Unit of Length | FT |

Upper Tier Geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower Tier Geodata: %RQD, L/F, SI, CL, EP, TE, PY, MT, MO

| Key | Flag | FROM | TO | SAMPLE NO. | INT. | STRUCT | DIP | Alteration & Mineralization | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| / | P | 448.00 | 458.00 | | 2c | FO | 65 | C. 0 0 0 | |
| L | | | | | | | | C. | |
| R | | | | | | | | | CORE — BADLY BROKEN TO 457 FT. |
| / | N1 | 449.60 | 450.50 | X | 1b | | | C- 0 0 0 0 | |
| L | | | | | | | | D. | |
| R | | | | | | | | | LIGHT COLORED |
| / | N2 | 452.80 | 454.00 | X | 3 | | | C+ 0 0 0 0 | |
| L | | | | | | | | D- | |
| / | N3 | 456.00 | 458.00 | 9 | 1d | | | C. D. | |
| L | | | | | | | | DC | |
| R | | | | | | | | | MED-COARSE GRAINED |
| / | P | 458.00 | 468.00 | | 1b | | | C> 0 0 D- | |
| L | | | | | | | | D+ 0 / 0 | |
| R | | | | | | | | | COARSE AND MEDIUM GRAINED BI? DARK AND LIGHT COLORED BANDS, MIN/Z — MOSTLY COOL — IN FINER GRAINED ROCKS. |
| / | N1 | 461.20 | 463.50 | | X3 | | | 0 0 0 0 | |
| L | | | | | | | | 0 | |
| P | | | | | | | | | |
| / | N2 | 466.80 | 647.30 | | X3 | | | 0 0 0 | |
| L | | | | | | | | 0 | |
| P | | | | | | | | | |
| / | P | 468.00 | 473.50 | | 1c | FO | D60° | C+ 0 0 D. 0 | |
| L | | | | | | | | D+ 0 | |
| R | | | | | | | | | FINE GRAINED AT TOP THEN TO MEDIUM GRAINED TO COARSE GRAINED AT BOTTOM. |

International Geosystems Corporation — Geology System — MAIN FORM — Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE-TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|
| DEN | 6 8 0 2 | 0 2 | W1002 | 124-91 | 18 | 21 |

| FLAG | Project | Location |
|---|---|---|
| PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | WILLIAMS CREEK |

| | | |
|---|---|---|
| MT/FT | FT | |
| Upper Tier Geodata (NAM / SCL) | Unit of Recov / Unit of Length F T . 2 | %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC |
| Lower Tier Geodata (NAM / SCL) | Unit of RQD | %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO |
| A / H / F | FROM, TO | SAMPLE NO., INT. |

| Key | Flag | From | To | Rock type | Remarks | Struc | Dip | KF/SI | LI/CL | MA/TE | AZ/PY | BO/MT | CP/MO | CC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | N1 | 468.00 | 470.80 | 73 | | C/ | 30° | | | C– | | | | |
| L | | | | | | | | | | C– | | | | |
| R | | | | | DYKING LOW ANGLE | | | | | | | | | |
| / | P | 473.50 | 478.00 | 1F | | | | | | C– | 0 | 0 | 0 | 0 |
| L | | | | | | | | | | D? | | | | |
| P | | | | | | | | | | | | | | |
| / | N1 | | | 93 | | | | | | C? | 0 | 0 | 0 | 0 |
| L | | | | | | | | | | D– | | | | |
| R | | | | | SOME FRACTURES STRONG CRUST MC | | | | | | | | | |
| / | P | 478.00 | 488.00 | 1c | | | | | | CC | 0 | 0 | 0 | |
| L | | | | | | | | | | D* | | | | |
| R | | | | | COARSE AND MEDIUM GRAINED, MEDIUM COLORED, | | | | | | | | | |
| / | N1 | 478.00 | 480.65 | 73 | | | | | | C* | 0 | 0 | 0 | 5 |
| L | | | | | | | | | | C– | | | | |
| R | | | | | LEUCOCRATIC, FINE-MED GRAINED, WEAK MAFICS, FLOODING UNIT 1c | | | | | | | | | |
| | | | | | AT LOW ANGLE TO CORE AXIS, WEAK MIN 2; | | | | | | | | | |
| / | N2 | 481.40 | 486.30 | 73 | | | | | | CC | | | | |
| L | | | | | | | | | | CC | | | | |
| R | | | | | AS ABOVE, WEAK CUOX | | | | | | | | | |
| / | N3 | 487.30 | 488.00 | 93 | | | | | | CC | | | | |
| L | | | | | | | | | | C– | | | | |
| R | | | | | STRONG KF AND QZ | | | | | | | | | |
| / | P | 488.00 | 494.50 | 16 | | | | E+ | 0 | CC | 0 | 0 | 6 | |
| L | | | | | | | | /E– | | C• | | | | |
| R | | | | | WEAKLY GNEISSIC, TRANSITIONAL UNIT 2c, | | | | | | | | | |

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INTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE or TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR MODEL | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | D E N | 6 8 0 2 0 2 | | W1002 | | | 124-91 | | | | | | | | | | | | | | | | | | | 1921 | |
| I | P I R | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| TURN CPT. 000 = Collar | FROM Metres Log or Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | DECLINATION FROM TRUE N | AZM | DIP/ANG DOWN | NOT INCLUDING ANY BLANK FIELDS | NORTHING M or S | EASTING M or W | ELEVATION M or SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | FT | | | | | | | | |

| FLAG | Unit of Recov | RECOVERY | TMOD | Min | ROCK TYPE | TYPIFYING MINS | SUBMAT | TEXTURES | GRAIN | FRACTURE COUNT | | STRUCT ID | STRIKE AZM | DIP | DIP DIRN | BI | ALTERATION & MINERALIZATION DEFAULT SUITES | | | | | | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N A M | | %REC | | | | | | FOLIATION | | S/F | M/F | | | KF | LI | HE | BI | MA | AZ | BO | CP | CC | |
| S C L | Unit of Length F | | | | | | | | | | | | | | | | | | | | | | |

| FLAG | Mod of | RQD | AGE Formn | ENV | RTG | Colour | TMS | CMS | TXG | TXE | Sa | Re | H | DC | STRUCT ID | AZM | DIP | DIP DIRN | MU | CL | EP | HE | ALTERATION & MINERALIZATION DEFAULT SUITES | | | | | | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N A M | | %RQD | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S C L | Unit of RQD | | | | | | | | | L/F | | | | | | | | SI | CL | EP | | TE | PY | MT | MO | | | | |

| | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|
| /N1 | 492.00 | 494.50 | X3 | | |
| L | | | | | |
| R | | | | | |
| /P | 494.50 | 507.50 | 1c | | FO 50° C* 0 0 0 DJ ? |
| L | | | | | |
| R | | | MEDIUM-DARK GR/ USU. NO SHEET WEAK SHEARED; GOOD CUOX; MINOR MOD. MAFIC SS; | | |
| /N1 | 494.50 | 496.30 | X3 | | C- C- |
| L | | | | | |
| R | | | WEAK CUOX ON FRACTURES; | | |
| /N2 | 496.30 | 497.80 | 9E | | SW 66° FC 0 C? C- |
| L | | | | | |
| R | | | UNIT 8, STRONG SHEARED; | | |
| /N3 | 498.50 | 499.70 | 1g | | S FO C* 0 9 D C - 0 9 ? |
| L | | | | | |
| R | | | 1g ? - CUOX ITIZED; MAFIC - 95°/; SHEARED ?, MOT - TO BRITTLE-55°? ? |
| /N4 | 506.30 | 507.00 | 1c | | SW 05° |
| L | | | | | |
| R | | | NE SHEAR-05°-CONTACT UNIT 6 | | |
| /N5 | 507.00 | 507.50 | X6 | | 0 0 0 0 0 |
| L | | | | | |
| R | | | FLOW BANDED; MAFIC PHENOCRYSTS-HEAVILY SHEARED IN A VERY FINE GRAINED; GREENSTONE SPOUT DUKE; | | |
| /P | 507.50 | 512.50 | X6 | | C/ 50° |
| L | | | | | |
| R | | | LOWER CONTACT 50°; SHEARS AND FRACTURES - LOW ANGLE; | | |
| | | | | | |
| | | | | | |

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ENTER KEYS in COL. 1 TO ACTIVATE ENTRIES

| F KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | CLIENT DRILLHOLE / TRAVERSE PREFIX / TYPE / NUMBER | SIZE OF CORE OR HOLE | LOGGED YY / MM / DD | BY | ASST BY | COMPLETED YY / MM / DD | DRILLING BY | STARTED YY / MM / DD | COMPLETED YY / MM / DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 124-91 | | | | | | | | | | | | | 2021 | |
| T | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | | WILLIAMS CREEK | | |

| S | TURN @ PT 000 = Collar | FROM Metres Est. of Feature | TO | MT FT | TOTAL DEPTH-LENGTH | AZM | INCLN/DIP FROM FEATURE | V-ANG | HOR. DOWN | HASH TOTAL (+A/+E/+Cl/+AZM/+V-ANG/+N/+E/+EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING METRES NORTH / SOUTH | EASTING METRES WEST | ELEVATION METRES ABOVE / SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | | | |

Upper Tier Geodata

| / | FLAG N A M | Unit of Recov | RECOVERY | ROCK ROCK-TYPE | TYPIFYING JOINS | GAL/MAT | TEXTURES | GRAIN | FRACTURE COUNT 1 2 | STRUCT ID | STRIKE AZM | DIP | Q2 | BI | ALTERATION & MINERALIZATION DEPAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | S C L | Unit of Length F | %REC | | | | FOLIATION | | S/F M/F | | | KF | LT | HE BI | MA AZ | BO CP CC |

Lower Tier Geodata

| L | FLAG N A M | Unit of RQD | RQD | ENV RTO | TEXTURES | GRAIN | | | | STRUCT ID | STRIKE AZM | DIP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | S C L | Unit of RQD | %RQD | | | | | | L/F | | | SI | CL | EP CA | | TE PY | MT | MO | | | |

GRAPHIC

| A | FLAG | Any Zone Flag or Flag ≠ CG Opposite MAZ or MIN in 001 – 999 | FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | | 512.50 | 522.50 | | 1d? | | | | | | FO | D60 | | | C* C | 0 | 0 | | | |
| L | | | | | | | | | | | | | | | | CC | | | | | |
| R | | | | | UNIT 1d - FINE & CG MED GRAINED LIGHT COLORED; LOOKS SIMILAR TO UNIT 1e BUT HAS MORE MAFICS; WE SHEARS TO 10MM COMMON - TOP EDGE OF UNIT 1e | | | | | | | | | | | | | |
| / | N1 | | 512.50 | 522.50 | | 1e3 | | | | | | | | | | CC | 0 | 0 | | | |
| L | | | | | | | | | | | | | | | | CC | | 0 | | | |
| R | | | | | FLOODING AND LOW ANGLE DUKING OF UNIT 1g | | | | | | | | | | | | | | | | |
| / | P | | 522.50 | 532.50 | | 1f | | | | | | FO | D60 | C- | | CJ | 0 | DC | D* | | |
| L | | | | | | | | | | | | | | /F-0 | | D* | | | | | |
| R | | | | | FINE MEDIUM GRAINED, SY NOT COMMON OCCASION < 1 FT BANDS TO 528 - 10% PATCHES UNIT 3 | | | | | | | | | | | | | | | | |
| / | N1 | | 527.90 | 529.10 | | 1X3 | | | | | | | | | | C* | 0 | 0 | 0 | 0 | |
| L | | | | | | | | | | | | | | | | D. | | | | | |
| R | | | | | | | | | | | | | | | | | | | | | |
| / | P | | 532.50 | 544.50 | | 1c | | | | | | | | | | C* | 0 | D- | D- | | |
| L | | | | | | | | | | | | | | | | F | | | | | |
| R | | | | | FINE & MEDIUM GRAINED BI>HE; | | | | | | | | | | | | | | | | |
| / | N1 | | 534.00 | 534.70 | | 1X3 | | | | | | D1 | D55 | | | C* | 0 | 0 | 0 | 0 | |
| L | | | | | | | | | | | | | | | | C- | | | | | |
| R | | | | | GRAM FINE DEPPLE MAFICS | | | | | | | | | | | | | | | | |
| / | N2 | | 539.40 | 540.20 | | X3 | | | | | | D1 | U60 | | | CC | 0 | 0 | 0 | 0 | |
| L | | | | | | | | | | | | | | | | CC | | | | | |
| R | | | | | | | | | | | | | | | | | | | | | |
| / | N3 | | 544.20 | 544.50 | | 2c | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | |
| L | | | | | | | | | | | | | | | | 0 | | | | | |
| R | | | | | 544.2 FM | PIW NO 1 ZONE; | | | | | | | | | | | | | | | |

Z = Alpha Z | Y = Alpha I | X = Alpha O | 3 = Num 3 | 2 = Num 2 | 1 = Num 1 | 0 = Zero | 5 = Alpha S

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE-TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | LOGGED YY | LOGGED MM | LOGGED DD | BY | ASST BY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 127-91 | | | | | | | | | | | | | | | | | | | | | 2 | 21 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN CPT 000 = Collar | FROM Meters Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM | LOCATE FROM TRUE | V-ANG NEG = DOWN | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | |

| | FLAG | RECOVERY | ROCK TYPE | TYPIFYING MNRS | GALMAT | TEXTURES | GRAIN | FRACTURE COUNT | STRUC1 ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES | | | | | | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | NAM | Unit of Recov | | | | | | | | | | CY | CB | MG | XX | PY | CP | GL |
| L | SCL | Unit of Length F T 1 2 | %REC | | | FOLIATION | S/F M/F | | | | KF | LI | HE | BI | MA | AZ | BO | CP CC |

| | FLAG | M or F | RQD | AGE Form 2 | ENV | RTG | STRUC2 ID | AZM | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | SCL | Unit of RQD | %RQD | | | | | | | | L/F | | | | | | SI | CL | EP | CA | | | TE | PY | MT | MO |

GRAPHIC

| | FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | 544.50 | 563.00 | | 2c | | | | | | | | | FO | D60° | | C– | | | | | | | | | | |
| L | | | | | | | | | | | | | | | / | 0 0 | | | | | | | | | | |
| P | | | FINE NE SHEARS COMMON; | | | | | | | | | | | | | | | | | | | | | | | |
| N1 | 548.00 | 548.80 | | 2c | | | | | | | | | FI | 85° | | FK | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | | | COARSE BRECCIA ; NE SHEARS- MODERATE FAULT; | | | | | | | | | | | | | | | | | | | | | | | |
| N2 | 549.00 | 551.20 | | 1c | | | | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | | | FINE & MEDIUM | | | | | | | | | | | | | | | | | | | | | | | |
| N3 | 550.50 | 552.80 | | 1d | | | | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 553.00 | 563.00 | | 2c | | | | | | | | | FO | 50° | | C– | | | | | | | | | | |
| L | | | | | | | | | | | | | | | / | 0 0 | | | | | | | | | | |
| P | | | FINE NE SHEARS COMMON; | | | | | | | | | | | | | | | | | | | | | | | |
| N1 | 556.80 | 557.20 | | 2c | | | | | | | | | FZ | 70° | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | | | 10MM NE SHEARS- MODERATE FAULT; | | | | | | | | | | | | | | | | | | | | | | | |
| N2 | 559.80 | 559.60 | | 1d | | | | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | | | | | |

Z = Alpha Z; 0 = Alpha O; 1 = Alpha 1; C = Alpha C; 2 = Zero; 1 = One; 2 = Two

International Geosys[...]ms Corporation — Geolo[...]System — RECOV[...]Y FORM — Geoform

| Key | Flag | Spec / Identity | Date | Page |
|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 — W1002 | 1-24-91 | 01 of 03 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK | | |
| S | | MT/FT: FT | | |
| / | NAM | Unit of Recov.: %REC | | |
| L | NAM | Unit of RQD: % RQD | | |

| Row | Key | From | To | Recovery |
|---|---|---|---|---|
| 1 | / | 60 | 160 | 79 |
| 2 | L | 60 | 100 | 8 |
| 3 | / | 160 | 260 | 85 |
| 4 | L | 100 | 200 | 31 |
| 5 | / | 260 | 360 | 100 |
| 6 | L | 200 | 300 | 26 |
| 7 | / | 360 | 460 | 95 |
| 8 | L | 300 | 400 | 36 |
| 9 | / | 460 | 560 | 83 |
| 10 | L | 400 | 500 | 23 |
| 11 | / | 560 | 660 | 98 |
| 12 | L | 500 | 600 | 51 |
| 13 | / | 660 | 760 | 94 |
| 14 | L | 600 | 700 | 64 |
| 15 | / | 760 | 860 | 100 |
| 16 | L | 700 | 800 | 76 |
| 17 | / | 860 | 960 | 97 |
| 18 | L | 800 | 900 | 78 |
| 19 | / | 960 | 1060 | 94 |
| 20 | L | 900 | 1000 | 57 |
| 21 | / | 1060 | 1160 | 98 |
| 22 | L | 1000 | 1100 | 55 |
| 23 | / | 1160 | 1260 | 94 |
| 24 | L | 1100 | 1200 | 44 |
| 25 | / | 1260 | 1360 | 88 |
| 26 | L | 1200 | 1300 | 62 |
| 27 | / | 1360 | 1460 | 93 |
| 28 | L | 1300 | 1400 | 67 |
| 29 | / | 1460 | 1560 | 100 |
| 30 | L | 1400 | 1500 | 50 |
| 31 | / | 1560 | 1660 | 98 |
| 32 | L | 1500 | 1600 | 42 |
| 33 | / | 1660 | 1760 | 89 |
| 34 | L | 1600 | 1700 | 24 |
| 35 | / | 1760 | 1860 | 97 |
| 36 | L | 1700 | 1800 | 15 |
| 37 | / | 1860 | 1960 | 100 |
| 38 | L | 1800 | 1900 | 27 |

Ø = Alpha Z; I or l = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geosys ns Corporation Geolo ystem RECOVI Y FORM Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX / TYPE / NUMBER | PAGE | OF |
|---|---|---|---|---|---|---|
| D E N | 6 B 0 2 | 0 2 | W1002 | 1 - 24 - 19 | 02 | 03 |

P R J: **WESTERN COPPER HOLDINGS – THERMAL EXPLORATION** — **WILLIAMS CREEK**

MT/FT: FT

Upper Tier Geodata — RECOVERY: %REC

Lower Tier Geodata — RQD: % RQD

| KEY | FROM | TO | RECOVERY / RQD |
|---|---|---|---|
| / | 1960 | 2060 | 95 |
| L | 1900 | 2000 | 42 |
| / | 2060 | 2160 | 92 |
| L | 2000 | 2100 | 25 |
| / | 2160 | 2260 | 100 |
| L | 2100 | 2200 | 77 |
| / | 2260 | 2340 | 97 |
| L | 2200 | 2300 | 64 |
| / | 2340 | 2440 | 98 |
| L | 2300 | 2400 | 56 |
| / | 2440 | 2540 | 100 |
| L | 2400 | 2500 | 90 |
| / | 2540 | 2640 | 96 |
| L | 2500 | 2600 | 78 |
| / | 2640 | 2740 | 99 |
| L | 2600 | 2700 | 74 |
| / | 2740 | 2840 | 100 |
| L | 2700 | 2800 | 88 |
| / | 2840 | 2950 | 94 |
| L | 2800 | 2900 | 80 |
| / | 2950 | 3050 | 96 |
| L | 2900 | 3000 | 84 |
| / | 3050 | 3150 | 100 |
| L | 3000 | 3100 | 62 |
| / | 3150 | 3250 | 99 |
| L | 3100 | 3200 | 64 |
| / | 3250 | 3350 | 100 |
| L | 3200 | 3300 | 88 |
| / | 3350 | 3450 | 99 |
| L | 3300 | 3400 | 64 |
| / | 3450 | 3560 | 91 |
| L | 3400 | 3500 | 65 |
| / | 3560 | 3660 | 98 |
| L | 3500 | 3600 | 85 |
| / | 3660 | 3760 | 96 |
| L | 3600 | 3700 | 63 |
| / | 3760 | 3860 | 99 |
| L | 3700 | 3740 | 85 |

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST YY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 68020 | | W1002 | 1- | 24 | -01 | | | | | | | | | | | | | | | | | | | 03 | 03 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| TURN C.P.T 000 = Collar | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | A Z M FROM SURVEY | V-ANG NEG=UP DOWN | MASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=BELOW SEA |
|---|---|---|---|---|---|---|---|---|---|---|
| S | | | FT | | | | | | | |

| FLAG | RECOVERY | $T_{MOD}$ -Mo- | ROCK | TYPHYVNC, TANS TAS | CALMAT CMAT | TEXTURES TX1 TX2 | GRAIN Fx O C-MP | FRACTURE COUNT 1 2 | Int Typ | Tr | STRUCT 1 ID | STRIKE AZM | Qz | DIP tenths | Qz | Bt | ALTERATION & MINERALIZATION (DEFAULT SUITES) CY | CB | BAQ | XS | PY | CP | GL | YY | SUMMARY FA A MS I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM | %REC | | | | | | | | | | | | | | | | | | | | | | | | |
| SIC L | Unit of Length F T M Z | Unit of Recov. | | | | | | | | | | | | | | | | | | | | | | | |

| FLAG | M or F | R Q D | AGE Form n | ENV | RTG | $T_{MOD}$ -Mo- | TMO | QMO | TX1 | TX2 | SA | Rn | Sn | R SM | R SI | Int Typ | Tr | STRUCT 2 ID | A Z M | Qz | DIP tenths | K F | M U | CL | EP | HE | How Amt | PR | MO | SL | How Amt | How? | How? |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM | % RQD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SIC L | Unit of R Q D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRAPHIC

A
H
F

Any Zone Flag = COMMaude, MAX of MIN or 001 – 999
If Flag = COM. then COL21-68 = SS No. groups
Flag = MIN, where no is any no. 01-99 as defined

RECOVERY — SS = Lambert Sextants

| | From | SS Y | To | SS Y | From | SS X | To | SS X | From | SS Z | To | SS Z | MASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| / | 3860 | 3960 | 93 | | |
| / | 3960 | 4060 | 92 | | |
| / | 4060 | 4160 | 90 | | |
| / | 4160 | 4260 | 90 | | |
| / | 4260 | 4360 | 90 | | |
| / | 4360 | 4440 | 93 | | |
| / | 4440 | 4490 | 90 | | |
| / | 4490 | 4580 | 95 | | |
| / | 4580 | 4660 | 78 | | |
| / | 4660 | 4760 | 90 | | |
| / | 4760 | 4860 | 98 | | |
| / | 4860 | 4960 | 100 | | |
| / | 4960 | 5060 | 88 | | |
| / | 5060 | 5160 | 80 | | |
| / | 5160 | 5260 | 98 | | |
| / | 5260 | 5360 | 100 | | |
| / | 5360 | 5460 | 98 | | |
| / | 5460 | 5560 | 88 | | |
| / | 5560 | 5660 | 96 | | |

1 2 3 4 5 6 7 — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

Z = Alpha Z
I or i = Alpha I
Ø = Alpha O
7 = Seven
2 = Two
1 = One
0 = Zero
S = Alpha S

International Geosy_ ms Corporation  Geolo System  SAM E FORM  Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILL HOLE TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 1 - | 24 | -01 | HQ | | | | | | | | OLYMPIC | 81 | 08 | 11 | | | | | GRID | 337° | C | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| Survey Data | TURN OFF 000=Collar | FROM Marks Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG=DOWN | HASH TOTAL N=1 E=2 TD=3 AZM=4 V-ANG=5 N=6 E=7 EL=8 NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 | 0 | | FT | 1566 | 247° | -50° | | | | |

| Upper Tier Geodata | FLAG | RECOVERY | ROCK | TYPIFYING MINS TMn | TMi | QAL MAT OMi | TEXTURE TX1 | TX2 | GRAIN F1 : C1 : C2 MP | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MC | XY | PY | CP | GL | YY | SUMMARY Fe2 | S AS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL | Unit of Recov | | | | | | | | | | | | | | | | | | | | | |
| | | Unit of Length F T M | | | | | | | | | | | | | | | | | | | | | |

| Lower Tier Geodata | FLAG | M or F | ROD | AGE Form A | ENV | RTG | Colour | TMi | OMi | TX1 | TX2 | St | Rn | In | Oc | N | In | L | STRUCT ID | AZM | DIP | M.O | CL | PP | HE | Nw Amt | PR | M.O | SL | Nw Amt | MCeq | MCeq |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NAM SCL | Unit of ROD | | | | | | | | Cu % | | Cu gm/t | | | | Pb gm/t | | | | | | | | | | | | | | | |

GRAPHIC

A AHP — Any Zone Flag = Comp in, Max or Min or 001 – 999 — RECOVERY — Sample Interval — SAMPLE NO. — INT. — SS # From — To — HASH TOTAL

| | FROM | TO | SAMPLE NO. | INT. | SS 1 From | To | SS 2 From | To | SS 3 From | To |
|---|---|---|---|---|---|---|---|---|---|---|
| K H/W | | | | | | | | | | |
| S | 561 | | | 263 | -40 | | | | | |
| K F/W | | | | | | | | | | |
| A SAM | 3745 | 3845 | T 154005 | 100 | 0.03 | 0.02 | <0.002 | | 0.01 | |
| | 3845 | 3945 | T 154006 | 100 | 0.97 | 0.81 | 0.029 | | 0.16 | |
| | 3945 | 4045 | T 154007 | 95 | 1.02 | 0.78 | 0.022 | | 0.18 | |
| | 4045 | 4080 | T 154008 | 40 | 0.07 | 0.06 | <0.002 | | <0.01 | |
| | 4080 | 4180 | T 154009 | 100 | 0.25 | 0.22 | 0.002 | | 0.03 | |
| | 4180 | 4280 | T 154110 | 100 | 0.65 | 0.58 | 0.006 | | 0.06 | |
| | 4280 | 4380 | T 154111 | 100 | 2.49 | 1.57 | 0.018 | | 0.39 | |
| | 4380 | 4480 | T 154112 | 100 | 1.01 | 0.94 | 0.012 | | 0.12 | |
| | 4480 | 4580 | T 154113 | 100 | 1.00 | 0.92 | 0.010 | | 0.11 | |
| | 4580 | 4680 | T 154114 | 100 | 1.66 | 1.50 | 0.012 | | 0.20 | |
| | 4680 | 4735 | T 154115 | 55 | 2.09 | 1.93 | 0.096 | | 0.21 | |
| | 4735 | 4780 | T 154116 | 45 | 0.53 | 0.47 | 0.006 | | 0.02 | |
| | 4780 | 4880 | T 154117 | 100 | 0.59 | 0.49 | 0.004 | | 0.04 | |
| | 4880 | 4945 | T 154118 | 65 | 0.49 | 0.45 | 0.008 | | 0.05 | |
| | 4945 | 5075 | T 154119 | 130 | 1.92 | 1.65 | 0.032 | | 0.27 | |
| | 5075 | 5125 | T 154220 | 150 | 0.77 | 0.69 | <0.002 | | 0.01 | |
| | 5125 | 5225 | T 154221 | 100 | 1.23 | 1.17 | 0.026 | | 0.12 | |
| | 5225 | 5325 | T 154222 | 100 | 1.66 | 1.37 | 0.034 | | 0.20 | |
| | 5325 | 5445 | T 154223 | 120 | 1.20 | 1.07 | 0.030 | | 0.21 | |
| | 5445 | 5530 | T 154224 | 85 | 0.78 | 0.71 | 0.010 | | 0.08 | |
| | 5530 | 5630 | T 154225 | 100 | 0.11 | 0.09 | <0.002 | | 0.01 | |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

0 = Zero 1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six 7 = Seven 8 = Eight 9 = Nine A = Alpha 1 B = Alpha 2 C = Alpha 3 D = Alpha 4 E = Alpha 5 F = Alpha 6 Z = Alpha 7

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| Key | Flag | Format Version | Spec | Identity of Project or Sub-Project (Unique) | ID of Drillhole/Traverse Pre-fix / Type / Number | Size of Core or Hole | Geologged YY MM DD | By | Asst By | Completed MM DD | Drilling By | Started YY MM DD | Completed MM DD | Drilling Time-Hrs | Surveyed By | Co-Ord System | Grid Azimuth | Page | Of |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 680202 | | W1002 | 1 34-91 | HQ | | MPP | | | OLYMPIC | 91 08 18 | 08 19 | | | GRID | 337. | 01 | 10 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | WILLIAMS CREEK | | | | | | | | |

| Key | Turn'g Pt 000=Collar | From (Marks Loc of Feature) | To | MT/FT | Total Depth/Length | AZM (Clockwise from True N) | V-ANG (Neg = Down) | Northing (Neg = South) | Easting (Neg = West) | Elevation (Neg = Sub-Sea) |
|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | 256. | 247. | -50. | 600.2 | 185.7 | 2894.4 |

Upper Tier Geodata: Flag N A M / S C L; Unit of Length F T • 2; Unit of Recov; %REC; ROCK TYPE; Typifying Mins TM1 TM2; Qal Mat QM1; Textures TX1 TX2; Grain; FOLIATION; Fracture Count S/F M/F; Struct 1D; Strike AZM; Dip; QZ; BI; Alteration & Mineralization Default Suites: KF LI HE BI MA AZ BO CP CC; Summary.

Lower Tier Geodata: Flag N A M / S C L; M or F; Unit of RQD; %RQD; Age; Env; RTQ; Colour; TM1; QM1; L/F; Struc 2 1D; AZM; Dip; SI CL EP CA TE PY MT MO.

A H F: Any Zone Flag or Flag = COMposite, MAX or MIN or 001 – 999; FROM; TO; SAMPLE NO.; INT.; Recovery; Hash Total.

| Key | Flag | From | To | Sample No. / Comment | Rock Type | Fracture | Struct | Dip | LI / CL | HE / EP | BO / MT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 0.0 | 6.00 | 0.0 | CASN | | | | | | |
| / | P | 6.00 | 10.00 | | 2d | | FO | 40° | | OO | |
| L | | | | | | | | | / | O O | D/ |
| R | | | | KF-AV < 10MM, RARE TO 40MM; WEAK WEA ON FRACTURES; | | | | | | | |
| / | P | 10.00 | 20.00 | | 2d | 150.4 | FO | 60° | | O | |
| L | | | | | | 0.2 | | | / | O O | D/ |
| R | | | | | | | | | | | |
| / | P | 20.00 | 30.00 | | 2d | 2609 | FO | 55° | | O | |
| L | | | | | | 03 | | | | /O O | D/ |
| R | | | | BELOW 26FT DECREASING KF; | | | | | | | |
| / | N1 | 28.50 | 30.00 | | 2c | | | | | | |
| R | | | | WEAK WHITE PHENOCRYSTS; | | | | | | | |
| / | P | 30.00 | 40.00 | | 2c | 1510 | FO | 55° | | C. | |
| L | | | | | | 04 | | | / | OC. | D/ |
| R | | | | WEAK WHITE PHENOCRYSTS; RARE KF PHENOCRYSTS; | | | | | | | |
| / | N | 32.2 | 33.80 | X3 | | | D/ | 20° | | | |
| R | | | | 03FT DYKE – MED-DARK GRAY, FINE GRAINED, VERY FINE MAFICS; | | | | | | | |
| / | P | 40.00 | 50.00 | | 2c | 1806 | FO | 50° | | C. | |
| L | | | | | | 02 | | | / | OC. | D/ |
| R | | | | | | | | | | | |
| / | N1 | 41.60 | 50.00 | | 2d | | | | | | |
| | | | | KF PHENOCRYSTS TO 30MM; | | | | | | | |
| / | P | 50.00 | 60.00 | | 2d | 1107 | FO | 55° | | C. | |
| L | | | | | | 0.4 | | | / | OC | D/ |
| R | | | | WEAK TO FAIR KF PHENOCRYSTS; LOW CONTACT TRANSITIONAL; | | | | | | | |
| / | N | 54.00 | 60.00 | | 2c | | | | | | |

Ø = Alpha O; Z = Alpha Z; I or i = Alpha I; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; 5 = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Field | Value |
|---|---|
| FLAG | DEN |
| Format version | 6 8 0 2 |
| Spec | 0 2 |
| Identity of project | W1002 |
| ID of drillhole | 134-91 |
| Page | 02 of 10 |
| PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Drilling by / location | WILLIAMS CREEK |
| MT/FT | FT |

Upper tier headings: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower tier headings: %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO

Analysis headings: FROM, TO, SAMPLE NO., INT.

| Key | Flag | From | To | Rock type / remarks | Struc | Dip | Alteration |
|---|---|---|---|---|---|---|---|
| R | | | | 56-60 - WIDE SPACED <5MM CA-CB(?) - NE SHEARS WITH ENVELOPE OF WEA; | | | |
| P | | 60.00 | 63.50 | ZC | FO | 50° | C· |
| / | | | | | | | / 0 C- D/ |
| R | | | | WEAK WHITE PHENOCRYSTS | | | |
| / | N1 | 62.8 | 63.50 | X3 | | | |
| R | | | | DYKE - TOP CONTACT IRREGULAR | | | |

International Geosystems Corporation — Geo[illegible]System — IN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DEN 6802 W1002 — 1/34 — 91 — PRJ WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK — PAGE 2 OF 10

Survey Data: S — TURN G>T 000 = Collar — FROM Mark Loc of Feature — TO — MT/FT FT — TOTAL DEPTH/LENGTH — AZM CLOCKWISE FROM TRUE N — V-ANG NEG IF DOWN — HASH TOTAL = F + T + TD + AZM + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS — NORTHING NEG IF SOUTH — EASTING NEG IF WEST — ELEVATION TIED TO SUB-SEA

Upper Tier Geodata: L — FLAG NAM SCL — Unit of Recov — Unit of Length FT 2 — RECOVERY %REC — ROCK TYPE — FOLIATION — S/F M/F — ALTERATION & MINERALIZATION DEFAULT SUITES KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: L — FLAG NAM SCL — M or F — Unit of RQD — RQD %RQD — L/F — SI CL EP CA TE PY MT MO

GRAPHIC

A — Any Zone Flag or Prop = COMPOSITE MAX or MIN or 001 — 999 — If Flag = ALT-48 = VEIN ID — Flag = Any no. 01-99 as set — RECOVERY — SAMPLE NO. — INT. — FROM — TO — HASH TOTAL

| | | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|---|
| /P | | 68.50 | 73.50 | | 2c | FO 60° C- / 0C° |
| LP | | | | BABBIT WEAK PHYLLIC ALTERATION INCREASED BY TOWARDS LOWER CONTACT | | |
| /N1 | | 63.50 | 69.50 | X3 | | |
| P | | | | ADDITIONAL AT TOP DUE PART SHEARED | | |
| /N2 | | 67.45 | 68.00 | X3 | | D/ 85 |
| | | | | WEAK UNIT 3' | | |
| /N3 | | 70.30 | 70.55 | X3 | | |
| P | | | | WEAK KF AND QUARTZ | | |
| R | H/W | 73.50 | | H/W NO 1 ZONE | | |
| /P | | 73.50 | 93.00 | 1f1 | | FO 80 / 10 / 00 CW C- D- |
| LP | | | | TE-LENSES & DISSEMINATED BABB REPLACING CP IN 1 & 2 WEAKENS TO LOWER CONTACT; BABB IN ARROW BANDS ONLY 1g NE STRONGEST UP ERIC | | |
| | | 73.50 | 73.80 | ROCK STRONGER WEAT HERED | | |
| /N1 | | 75.00 | 77.80 | 21c | | CW 0 D- |
| P | | | | 0.2 FT PANELS LENSES AND PODS - LIGHT COLORED | | |
| /N2 | | 78.50 | 79.50 | 1c | | CW D- |
| LP | | | | BOTTOM 0.2 FT WEA - FAULT? | | |
| /N3 | | 80.40 | 82.70 | 21c | | |
| LP | | | | BANDS - 2.03 FT - LIGHT COLORED - UNIT 2? | | |

1 = Alpha 2 = Alpha Z
Ø = Alpha O
3 = Seven
2 = Two
1 = One
Ø = Zero
5 = Alpha S

International Geosystems Corporation — Geologging System — MAIN FORM — Geoform

| Field | Value |
|---|---|
| Format version | 6 B 0 2 0 2 |
| Identity of project | W1002 |
| ID of drillhole | 134-91 |
| Page | 04 / 10 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Drilling by / Property | WILLIAMS CREEK |
| MT/FT | FT |
| Unit of Recov. | FT |

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | CA | TE | PY | MT | MO

| Line | Key | Flag | FROM | TO | SAMPLE NO. / INT. | Struc / Dip | Alteration & Mineralization |
|---|---|---|---|---|---|---|---|
| 1 | / | P | 83.00 | 90.00 | 1f | FO 70° | / 6 CC 0 |
| 2 | L | | | | | | 0 0 C* |
| 3 | R | | | | 1f - LIGHT GREY AND KHAKI-DARK COLOUR INTERBANDED | | |
| 4 | | | | | MINZ TREND WEAKENS FROM TOP TO BOTTOM OF SECTION | | |
| 6 | / | N1 | 84.90 | 85.25 | X 1c | | C- |
| 7 | | | | | | | C- |
| 9 | / | N2 | 88.40 | 88.50 | X 1c | | |
| 11 | / | P | 90.00 | 97.50 | | | |
| 12 | L | | | | | | |
| 13 | R | | | | | | |
| 17 | / | N1 | 90.00 | 90.90 | X 1a | | / C- |
| 18 | L | | | | | | C- |
| 19 | R | | | | HB TO BI - MOTTLED ALTERATION | | |
| 21 | / | N2 | 90.90 | 92.70 | X 1f | | / D> 0 |
| 22 | L | | | | | | D> |
| 23 | R | | | | | | |
| 24 | | | | | DISSEMINATED TE & MO [illegible] CRUSTS | | |
| 26 | / | N3 | 92.70 | 93.60 | X 1c | | / C> D |
| 27 | L | | | | | | C> |
| 28 | R | | | | ALTERED UNIT 2" | | |
| 30 | / | N4 | 93.60 | 94.20 | X 1g | | 0 D+ |
| 31 | L | | | | | | D+ |
| 32 | R | | | | HEAVY FINE HB; NOTICEABLE WEAK MINZ; | | |
| 34 | / | N5 | 94.20 | 95.20 | X 1f | | C> |
| 35 | L | | | | | | C> |
| 36 | R | | | | | | |

Ø = Alpha O · 1 or I = Alpha I · Z = Alpha Z · 7 = Seven · 2 = Two · 1 = One · 0 = Zero · S = Alpha S

International Geosystems Corporation — Geologging System — MAIN FORM — Geoform

| Key | Flag | Format Version | Spec | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|---|---|
| I | DEN | 680202 | | W1002 | 134-91 | 05 | 10 |

| Key | PRJ | | |
|---|---|---|---|
| I | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK | |

Survey Data: MT/FT: FT

Upper Tier Geodata: Unit of Recov: FT · 2 — %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI — MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP CA — TE PY MT MO

| Key | Flag | From | To | Rock | Struct. | Dip | LI/CL | HE/EP | BI/CA | MG | MA/TE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| / | N6 | 95.20 | 96.70 | X1e | | | | | | | C> |
| L | | | | | | | | | | | C> |
| R | FAIR 4 IOPH LARGER & GRADED AND INCREASED BI | | | | | | | | | | |
| / | N7 | 96.70 | 97.20 | 1e | | | / | | / | | o |
| L | | | | | | | | | | | o |
| / | N8 | 97.20 | 97.50 | V1e | | | | | | | C> |
| L | | | | | | | | | | | C> |
| R | | | | | | | | | | | |
| K | F/W | 97.50 | | F/W UPPER NO 1 ZONE? | | | | | | | |
| / | P | 97.50 | 106.00 | 1e | Fo | 60° | / | o | / | | C− |
| L | | | | | | | o | o | o | | C− |
| R | DISSEMINATED TE ONLY NEAR TOP CONTACT MIN/Z - TRANSPORTED | | | | | | | | | | |
| | UNIT 1e-2a?? ~ 10% KF PHENOCRYSTS SEEN, TE > MC; | | | | | | | | | | |
| / | N1 | 100.90 | 101.80 | 8If | | | | | | | C− |
| L | | | | | | | | | | | |
| R | HIGHLY WEA 100.80 - 102.40 - CRUMBLY CORE | | | | | | | | | | |
| / | N2 | 101.80 | 103.00 | | | | | | | | C+ |
| R | HIGHLY WEATHERED | | | | | | | | | | |
| / | P | 106.00 | 114.50 | 1e | | | / | o | / | | C· |
| L | | | | | | | o | o | o | | FC |
| R | TO 110 STRONG COATING BLACK LI-TE ON FRACTURES - | | | | | | | | | | |
| / | N1 | 110.30 | 114.50 | X1e | | | / | | | CY | o |
| L | | | | | | | | | | P2 | ? |
| R | UPPER CONTACT TRANSITIONAL - INCREASED BI' TO BOTTOM SECTION | | | | | | | | | | |
| | INCREASED PERVASIVE WEATHERING, | | | | | | | | | | |
| | GENERALLY OVERALL WEAK BIOTITE, | | | | | | | | | | |

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data

| key | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID or DRILLHOLE-TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | | | 134-91 | | | | | | | | | | | | | | | | | | | 06 | 10 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

Survey Data

| S | TURN G.P.T. GOOD to Collar | FROM Marks Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG | NEG IS DOWN | HASH TOTAL = F + T + TD + AZM + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG IS SOUTH | EASTING | NEG IS WEST | ELEVATION | NEG IS SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | | | | | | |

Upper Tier Geodata

| / | FLAG NAM SCL | Unit of Recov. | RECOVERY Twgo Mix | ROCK TYPE | TYPE/TEXT MIN1 | MIN2 | CALMAT | TEXTURES TX1 | TX2 | Pt | Gr | C | MP | FRACTURE COUNT 1 | 2 | INT | T1 | STRUC 1 | STRIKE AZM | DIP to Right | DIP to Left | OZ | UI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | SUMMARY Fa | Al | MC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | | Unit of Length F T : 2 | %REC | | | | | FOLIATION | | | | | | S/F | M/F | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC |

Lower Tier Geodata

| L | FLAG NAM SCL | M or F | ROD AGE Form a | ENV | RTQ | Fe Color | TM1 | QM1 | TX1 | TX2 | Su | Rx | Sr | Oc | R | IN | B | SI | INT 1 | T2 | STRUC 2 | STRIKE AZM | DIP to Right | DIP to Left | XJ | MU | ALTERATION & MINERALIZATION DEFAULT SUITES CL | SP | HE | Hw Amt | PR | MO | SL | Hw Amt | Hem2 | Hem1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | | Unit of R Q D %RQD | | | | | | | | | | | | | L/F | | | | | | | | | SI | CL | EP | CA | | | TE | PY | MT | MO | | | |

GRAPHIC

A — Any Zone Flag or Flex = COMposite: MAX of MIN or 001 – 999; If Flag = 21-68 = SS no. or Flag = 69-99 as defined; any no. 01-99 as defined

| / | FLAG | FROM | TO | RECOVERY % or Sample Seq. No. | SAMPLE NO. | INT. | From | To | From | To | From | To | From | To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 114.50 | 121.00 | | Sp | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | WEAK - FAIR BT | | | | | | | | | | |
| / | NL | 116.40 | 121.00 | | B1c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | HANGING WEAK STRONG MINOR MC AT TOP AND DECREASES TO BOTTOM; OVERALL BIOTITE CONTENT BELOW AVERAGE | | | | | | | | | | |
| / | P | 121.40 | 131.50 | | 2c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | OVERALL WEAK BT BUT NARROW IRREGULAR BANDS OF FINER GRAINED BT ROCK; MORE TYPICAL OF UNIT 2c WEAK MIN 2-KSP | | | | | | | | | | |
| | NL | 125.40 | 126.80 | | X2c | | | | | | | | | | |
| | | | | | INCREASED MC AND TE | | | | | | | | | | |
| / | NL | 127.80 | 130.10 | | 2c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | INCREASED BT - MORE TYPICAL 2c; NOT INCREASE INCREASE MIN 2 | | | | | | | | | | |
| / | NA | 130.10 | 131.50 | | 2c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| / | P | 131.50 | 135.50 | | 2c | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | WEAKER BT THAN NORMAL | | | | | | | | | | |
| / | NL | 134.50 | 138.50 | | 3 | | | | | | | | | | |
| L | | | | | | | | | | | | | | | |
| R | | | | | WEAK UNIT 3, BT BLACK MC & TE DUE FR; 1% BT STRINGING FOR IN UNIT 3 | | | | | | | | | | |

Z = Alpha Z  Y = Alpha Y  Ø = Alpha O  X = Alpha X  P = Seven  Z = Two  1 = One  0 = Zero  $ = Alpha $

International Geosystems Corporation — Geocoding System — FREE FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: FLAG DEN; FORMAT VERSION 6802; IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) W1002; ID OF DRILLHOLE/TRAVERSE PRE-FIX TYPE NUMBER 134-91; PAGE 07 OF 10

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: TORN C PT 000=Collar; FROM Marks Loc of Feature; TO; MT/FT FT; TOTAL DEPTH/LENGTH; AZM; SLOPE/AXIS FROM TRUE N; V-ANG NEG=DOWN; HASH TOTAL = sum of FROM + AZM + V-ANG + TO + EL, NOT INCLUDING ANY BLANK FIELDS; NORTHING NEG=SOUTH; EASTING NEG=WEST; ELEVATION NEG=SUB-SEA

Upper Tier Geodata: FLAG NAM SCL; Unit of Recov; Unit of Length FT = 2; RECOVERY; ROCK TYPE %REC; TYPIFYING MINS; SEC MAT; TEXTURES; GRAIN; FRACTURE COUNT; STRUCT ID; STRIKE AZM; DIP to Azm; ALTERATION & MINERALIZATION DEFAULT SUITES; SUMMARY

Lower Tier Geodata: FLAG NAM SCL; M or F; Unit of ROD; ROD %RQD; AGE Form n; ENV; RTG; TXT; STRUCT ID; AZM; DIP to Azm; ALTERATION & MINERALIZATION DEFAULT SUITES

GRAPHIC

A: FROM — TO — SAMPLE NO. — INT. — HASH TOTAL

| | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|
| /N2 | 134.20 | 135.10 | 03 | | FO 75° C= E= |
| R | | | WEAK UNIT 3; WEAK MIN 2 | | |
| /P | 135.00 | 145.00 | 2a | | FO 70° 10 0 / 0 C? C? ? ? |
| P | | | MC AND TE-INS TO BUT LESS THAN FRACTURED TRANSPORTED DOBSIE BEDS TURNED BY 12c-ALTERNATING LIGHT AND DARKER UNKNOWN BANDS | | |
| /P | 145.00 | 153.50 | 1c | | FO 70° 1 0 / 0 C? C? D? D? |
| R | | | DECREASING BT TO LOWER CONTACT DUE ALL DEPOSITIONAL BANDS LOST UNIT 1a; MC 2 TE INSITU | | |
| /N1 | 149.70 | 152.50 | 2 1c | | C* C* |
| P | | | UNIT 1c? LOWER CONTACT TRANSITIONAL AT TOP TEXTURE; | | FINE CATACLASTIC |
| /N2 | 153.30 | 153.50 | 1c? | | FO ? 0 CY 0 PS |
| R | | | HIGHLY WEA-TOP OF FAULT ZONE ROCK TO CLAY | | |
| /P | 153.50 | | | | |
| R | | | | | |
| /N1 | 153.50 | 156.40 | XF2 | | D CM CC 10 V3 PR CC |
| R | | | HIGHLY SHEARED; CH-CA ALTERED; 155B-156 AD-CB (SD?) VEINS; | | |
| /N2 | 156.40 | 160.00 | X 1c | | FO D20° / D* / 10 P2 C= |
| P | | | ALTERED DIRTY GREEN-PERVASIVE & VEINLET CA-PERVASIVE & VEINLET CA-PERVASIVE & VEINLET CA; SHEARED-02 AND 06 FO? | | |

1 = One, 2 = Two, 3 = Seven, Ø = Alpha O, 1 = Alpha I, 2 = Alpha Z, 5 = Alpha S, 0 = Zero

International Geos tems Corporation — Gec g System — IN FORM — Geoform

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE | PAGE OF |
|---|---|---|---|---|---|---|
| I | D E N | 6 8 0 2 | 0 2 | W1002 | 134-97 | 08 / 10 |
| I | P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | WILLIAMS CREEK | |

Survey Data: MT/FT: FT

Upper Tier Geodata: FLAG N A M / S C L; Unit of Length: F T; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF; LT; HE; BI; MA; AZ; BO; CP; CC

Lower Tier Geodata: %RQD; L/F; SI; CL; EP; CA; TE; PY; MT; MO

FROM — TO — SAMPLE NO. — INT.

| Line | Key | Flag | From | To | Sample / Rock type | Struct. | Dip | Alteration & mineralization |
|---|---|---|---|---|---|---|---|---|
| 1 | / | N | 160.00 | 161.00 | X 1C | | | 0 CY 0 |
| 2 | L | | | | | | | 1 0 P3 P3 C– |
| 3 | R | | | | | | | |
| 5 | / | P | 161.00 | 171.60 | 2a | FO | 60 | DC 1/ |
| 6 | L | | | | | | | / 0 F |
| 7 | R | | | | | | | |
| 9 | / | N1 | 161.50 | 162.30 | 9 1c | | | 0 0 0 |
| 10 | L | | | | | | | 0 |
| 11 | R | | | | WEAK 1c – GRADES 1c TO UNIT 1a; | | | |
| 13 | / | N2 | 162.30 | 162.90 | X 3 | D/ | | |
| 14 | R | | | | | | | |
| 17 | / | N3 | 166.00 | 171.00 | 2c | | | |
| 18 | R | | | | CONTACT TRANSITIONAL INCREASING HB TO GREATER THAN ET | | | |
| 19 | | | | | WEAK WHITE PHENOCRYSTS; | | | |

(HOLE CONTINUES)

2 = Alpha Z — 1 or I = Alpha I — Ø = Alpha O — 7 = Seven — 2 = Two — 1 = One — 0 = Zero — 5 = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity Data | | |
|---|---|---|
| D E N | 6 B 0 2 0.2 | W1002 / 34-91 |
| P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK |

Page 09 of 10

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI HE BI | MA AZ BO CP CC

Lower Tier Geodata: %RQD | L/F | SI CL EP | TE PY MT MO

A: FROM | TO | SAMPLE NO. | INT.

| Key | Flag | From | To | Rock Type | Fracture Count | Struct | Dip | | Alteration | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 171.00 | 180.00 | 2c | 1705 | FO | | | O | | |
| | L | | | | 0.2 | | | / | O C- | D/ | |
| | R | | | | | | | | | | WEAK WHITE PHENOCRYSTS; WEAK WEA ON FRACTURES; |
| / | N | 173.40 | 173.50 | X 3 | | D/ | 45° | | | | |
| / | P | 180.00 | 190.00 | | 1217 | | | | F° | | |
| | L | | | | 0.6 | | | / | O C- | D/ | |
| | R | | | | | | | | | | CA-DUST-CRUST ON WEA FRACTURES |
| / | P | 190.00 | 200.00 | 2c | 0610 | FO | 45° | | C· | | |
| | L | | | | 0.4 | | | | O C· | D/ | |
| | R | | | | | | | | | | NO PHENOCRYSTS, EXCEPT QZ; |
| / | R | 200.00 | 210.00 | 2c | 0905 | FO | 45° | | F- | | |
| | L | | | | 0.4 | | | / | O C- | D/ | |
| | R | | | | | | | | | | WEAK WHITE PHENOCRYSTS; |
| | K | | | | | | | | | | 1/2-5 FT WEAK AZMH NE, CA CE(?) SHEARS 15-25°; PINK (HE) ENVELOPE; |
| / | N1 | 201.10 | 201.50 | X 3 | | D/ | 45° | | | | |
| | R | | | | | | | | | | PARALLEL FO?, FINE GRAINED, MED-DARK GRAY COLOR-FINE MAFICS[?] |
| / | P | 210.00 | 220.00 | 2c | 0907 | FO | 50° | | F- | | |
| | L | | | | 0.3 | | | / | O C· | D/ | |
| | R | | | | | | | | | | RARE WHITE PHENOCRYSTS; |
| | R | | | | | | | | | | 1/2FT WEAK AZMH NE CA SHEARS @35°; |
| / | P | 220.00 | 230.00 | 2c | 1206 | FO | 50° | | C· | | |
| | L | | | | 0.3 | | | / | O C· | D/ | |
| | R | | | | | | | | | | WEAK-IN PLACES FAIR WHITE PHENOCRYSTS; |
| / | N1 | 225.30 | 230.00 | X 3 | | D/ | 20° | | | | |
| | R | | | | | | | | | | BOTTOM CONTACT-BREAK TOWARDS BOTTOM [illegible] FRACTURES; |
| | R | | | | | | | | | | WEAK KF AND QZ PEGMATITE. 1% CL BY MAFICS; |

Ø = Alpha O, 7 = Seven, 2 = Two, 1 = One, 0 = Zero, S = Alpha S, Z = Alpha Z, I or i = Alpha I

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT | ID of DRILLHOLE | PAGE | OF |
|---|---|---|---|---|---|---|
| DEN | 6 B 0 2 | 0 2 | W1002 | 134-91 | 10 | 10 |

PRJ: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

MT/FT: FT

Upper Tier Geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD, L/F, SI CL EP CA TE PY MT MO

| Key | Flag | From | To | Int. / Rock | Fracture | Struc. | Dip | Alteration | Other |
|---|---|---|---|---|---|---|---|---|---|
| / | P | 230.00 | 240.00 | 2c | 0905 | FO | 55° | C• | |
| L | | | | | 04 | | | / o C• | D/ |
| R | FAIR WHITE PHENOCRYSTS <20MM; | | | | | | | | |
| / | N1 | 230.00 | 234.20 | FZ | | FZ | 10° | C- CM | |
| L | | | | | | | | D OFD P3 | |
| R | MAIN BREAK 231A AND 2324 - GOUGY (WEA)-5MM CH HE BREAKS IN A | | | | | | | | |
| R | PROPMLITIC ALTERED ENVELOPE - EX TO GREEN CY, AND CA FILLED FRACT- | | | | | | | | |
| R | URES; CONTACTS TRANSITIONAL | | | | | | | | |
| / | P | 240.00 | 250.00 | 2c | 1205 | FO | 60° | C• | |
| L | | | | | 03 | | | / o C• | D/ |
| R | WEAK WHITE PHENOCRYSTS; | | | | | | | | |
| / | N1 | 242.80 | 244.80 | X3 | | D/ | 30° | | |
| R | XCUTS FO; STRONG KF AND QZ REPLACING MEDIUM GRAIN, FINE GRAINED | | | | | | | | |
| | WITH FINE PERVASIVE MAFICS - UNIT 5 | | | | | | | | |
| / | N2 | 246.20 | 246.30 | X3 | | D/ | 30° | | |
| / | N3 | 247.20 | 247.70 | A5 | | D/ | 30° | | |
| R | TWO-DIFF DYKES - ONE PARALLEL FO AND OTHER XCUT FO; UNIT 5 - MINOR | | | | | | | | |
| | FINE MAFICS; | | | | | | | | |
| / | N4 | 248.00 | 250.00 | 51c | | | | | |
| R | NO MINERALIZATION; | | | | | | | | |
| / | P | 250.00 | 256.00 | 2c | | FO | 55° | C• | |
| L | | | | | | | | / oC• | D/ |
| R | WEAK WHITE OCCASIONAL KF(?) PHENOCRYST; | | | | | | | | |
| / | N1 | 250.00 | 250.20 | X1c | | | | | |
| / | N2 | 250.60 | 262.50 | X5 | | D/ | 20° | | |
| R | FINE GRAINED, MED-DARK GRAY WITH COLOR FINE MAFICS; 30% DYKES | | | | | | | | |
| | UNIT 3 | | | | | | | | |
| K | END | 256.00 | | | | | | | |

81-130

International Geosy ms Corporation — Geolo system — RECOV .Y FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | DRILLHOLE/TRAVERSE PREFIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | LOG/DECKED YY | MM | DD | BY | ASSY YY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 1 | - | 34 | - 0 | | | | | | | | | | | | | | | | | | 1 | 1 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN OPT | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM | DIP FROM TRAVERSE | V-ANG | NEG IS DOWN | HASH TOTAL S P L T – I D + AZM – V-ANG + N E – S NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG IS SOUTH | EASTING | NEG IS WEST | ELEVATION | NEG IS BELOW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 = Collar | | | FT | | | | | | | | | | | | |
| S | | | | | | | | | | | | | | | | |

| | FLAG | | RECOVERY | ROCK | TYPE/VEIN MINS | GAL/MAT | TEXTURES | GRAIN | FRACTURE | STRUCT ID | STRIKE AZM | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Tier Geodata | NAM SCL | Unit of Recov. Unit of Length | %REC | | | | | | | | | | |
| Lower Tier Geodata | NAM SCL | M or F Unit of RQD | RQD ACE Formula | | ENV | RTG | | | | | | | |

GRAPHIC

A — Any Zone Flag or Flag = COMPOSITE, MAX of MIN or 001 – 999
H — Flag = COM then Col 21-68 = 5 hex. groups
F — Flag = Wxx, where xx = any no. 01-99 as defined

RECOVERY — From — To — Length — From — To — Length — From — To — Length — From — To — Length — MASH TOTAL

| | | | |
|---|---|---|---|
| 60 | 160 | 75 | |
| 160 | 260 | 96 | |
| 260 | 360 | 100 | |
| 360 | 460 | 100 | |
| 460 | 560 | 96 | |
| 560 | 660 | 90 | |
| 660 | 760 | 94 | |
| 760 | 860 | 100 | |
| 860 | 960 | 100 | |
| 960 | 1060 | 100 | |
| 1060 | 1160 | 94 | |
| 1160 | 1260 | 96 | |
| 1260 | 1360 | 100 | |
| 1360 | 1460 | 100 | |
| 1460 | 1560 | 100 | |
| 1560 | 1660 | 100 | |
| 1660 | 1760 | 100 | |
| 1760 | 1860 | 99 | |
| 1860 | 1960 | 100 | |
| 1960 | 2060 | 100 | |
| 2060 | 2160 | 99 | |
| 2160 | 2260 | 100 | |
| 2260 | 2360 | 100 | |
| 2360 | 2460 | 100 | |
| 2460 | 2560 | 97 | |

Z = Alpha Z
I or i = Alpha I
Ø = Alpha O
7 = Seven
2 = Two
1 = One
0 = Zero
S = Alpha S

International Geos[illegible]ms Corporation — Geo[illegible] System — **RECOV[illegible]Y FORM** — Geoform

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILLHOLE TRAVERSE (PRE-FIX / TYPE / NUMBER) | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 | 0 2 | W1002 | 11 - 2C - 10 | 01 | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | WILLIAMS CREEK | | |
| S | | MT/FT: FT | | | | | |
| / | | RECOVERY: %REC | | | | | |
| L | | ROD: %RQD | | | | | |

| KEY | FROM | TO | RECOVERY | Comments |
|---|---|---|---|---|
| L | 10 | 20 | 26 | |
| L | 20 | 30 | 17 | |
| L | 30 | 40 | 17 | |
| L | 40 | 50 | 42 | |
| L | 50 | 60 | 34 | 6[illegible] 171 FEET |
| L | 171 | 180 | 21 | |
| L | 180 | 190 | 35 | |
| L | 190 | 200 | 50 | |
| L | 200 | 210 | 38 | |
| L | 210 | 220 | 34 | |
| L | 220 | 230 | 37 | |
| L | 230 | 240 | 48 | |
| L | 240 | 250 | 47 | |

International Geosystems Corporation — Geolog System — SAMPLE FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | Y | GEOLOGGED MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | -34 | -01 | HQ | | | | | | | | OLYMPIC | 01 | 08 | 30 | 08 | 19 | | | GRID | 327 | | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| S | TURN G PT 000=Collar | FROM Metric Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IF DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IF SOUTH | EASTING NEG IF WEST | ELEVATION NEG IF SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 | 0. | | FT | 256. | 247. | -50. | | | | |

| FLAG | RECOVERY | ROCK | TYPIFYING MINS TXM | FMS | GAL/MAT QZM | TEXTURES TX1 | TX2 | GRAIN Fr | C | MP | FRACTURE COUNT 1 | 2 | STRUCT ID | STRUCT STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT VALUES CY | CB | MC | XX | PY | CP | CL | VY | SUMMARY Fe | Al | MZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM SCL | Unit of Recov. 1 2 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| FLAG | MRF | ROD | AGE Event # | ENV | RTO | Caliper | TXM | QZM | TX1 | TX2 | Sv | Bn | Sn | OC | Fr | M | S | Tx1 | Tx2 | STRUCT ID | STRUCT AZM | DIP To Right | XF | MU | CL | EP | HE | Hw Am | PR | MO | SL | Hw Amt | Hw% | Hw% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM SCL | Unit of RQD | | | | | | | | Cu% | Cu gsa | Fra | gN/T | | | Fg | gN/T | | | | | | | | | | | | | | | | | | |

GRAPHIC

A — Any Zone Plus or Alpha in COMobile, MAX or MIN or 001 – 999 — H Plus Alpha in 21-48 = 55 No. groups — H Plus Alpha in 01-99 as defined

| FROM | TO | SAMPLE NO. | INT. | RECOVERY | Sample Weight | Caliper | From | To | From | To | From | To | From | To | WASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K H/W | | | | | | | | | | | | | | | |
| S 150 | | | | | | 249 | -50 | | | | | | | | |
| K F/W | | | | | | | | | | | | | | | |
| A SAM 635 | 735 | T155100 | | 100 | | | | | | | | | | | |
| 735 | 830 | T155200 | | 95 | | | | | | | | | | | |
| 830 | 900 | T155210 | | 70 | | | | | | | | | | | |
| 900 | 975 | T155222 | | 175 | | | | | | | | | | | |
| 975 | 1060 | T155235 | | 85 | | | | | | | | | | | |
| 1060 | 1145 | T155244 | | 85 | | | | | | | | | | | |
| 1145 | 1210 | T155255 | | 65 | | | | | | | | | | | |
| 1210 | 1315 | T155266 | | 105 | | | | | | | | | | | |
| 1315 | 1350 | T155277 | | 35 | | | | | | | | | | | |
| 1350 | 1450 | T155288 | | 100 | | | | | | | | | | | |
| 1450 | 1535 | T155299 | | 85 | | | | | | | | | | | |
| 1535 | 1610 | T155301 | | 75 | | | | | | | | | | | |
| 1610 | 1710 | T155311 | | 100 | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.03 | 0.02 | <0.002 | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.68 | 1.51 | <0.002 | | 0.17 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.74 | 1.48 | 0.012 | | 0.16 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.27 | 2.05 | 0.008 | | 0.14 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.80 | 0.64 | 0.004 | | 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.52 | 0.38 | <0.002 | | 0.05 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.37 | 2.30 | 0.010 | | 0.14 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.82 | 0.75 | 0.006 | | 0.06 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.70 | 0.67 | <0.002 | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 2.03 | 1.95 | 0.010 | | 0.11 | | | | | | | | | | | | | | | | | | | | | | | |
| 1.52 | 1.42 | 0.010 | | 0.07 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.18 | 0.15 | <0.002 | | 0.01 | | | | | | | | | | | | | | | | | | | | | | | |
| 0.04 | 0.03 | <0.002 | | <0.01 | | | | | | | | | | | | | | | | | | | | | | | |

Z = Alpha Z — Y = Alpha Y — Ø = Alpha Ø — 9 = Nine — 8 = Eight — 7 = Seven — 6 = Six — 5 = Alpha S — 4 = Four — 3 = Three — 2 = Two — 1 = One — 0 = Zero

International Geosystems Corporation — Geolog System — **MAIN FORM** — Geoform

Identity Data: W1002 | 135-97 | MPP | OLYMPIC 91 08 19 08 20 | GRID | 337. | 01 | 14

WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK

Survey Data: FT | 316. | 247. | -50. | 600.1 | 317.1 | 2873.4

| FROM | TO | FLAG | ROCK TYPE | FOLIATION | STRUC1 ID | STRUC1 AZM | DIP | ALTERATION & MINERALIZATION | SUMMARY | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 6.00 | /P | CASING | | | | | | | |
| 6.00 | 10.00 | /P | 2c? | | FO | 50° | | | | LIGHT COLORED, 2c? ~1-2% MAFICS, SEE COMMENTS BELOW |
| 6.00 | 7.00 | /N | 2b | | | | | | | WD SILT? |
| 10.00 | 20.00 | /P | 2c? | | FO | 60° | | | | LIGHT COLORED, THIS LOOKS MORE LIKE UNIT 5 AS CONTACT WITH 2b ARE NOT SUB PARALLEL TO FOLIATION AND PATCHES OF 2b OCCUR WITH 2c |
| 10.80 | 12.00 | /N1 | | | | | | | | KF FLOODING ASSOCIATED WITH EP |
| 14.80 | 15.50 | /N2 | 2b | | D1 | 40° | | | | UPPER CONTACT TRANSITIONAL |
| 15.50 | 18.30 | /N3 | 2b | | C1 | 15° E= | | | | LOWER CONTACT WITH LIGHT COLORED 2c! 15° WEAK FRACTURE-ENVELOPE KF ASSOCIATED WITH EP; 2b - BELOW NORMAL MAFICS; |
| 19.85 | 20.00 | /N4 | 2b | | | | | | | |
| 20.00 | 30.00 | /P | 2b | | FO | 45° E> | | | | WEAK FRACTURE-ENVELOPE K10MM WITH EP; UNIT 2b - BELOW NORMAL MAFICS; |
| 21.40 | 21.80 | /N1 | | | D1 | 50° | | | | LIGHT FO; FINE GRAINED 3% FINE MAFICS, OCCASIONAL 4-10MM WHITE PINEMOCRYST |

Z = Alpha Z | Y or ! = Alpha ! | Ø = Alpha Ø | 7 = Seven | 2 = Two | 1 = One | Ø = Zero | $ = Alpha $

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity | Flag | Format Version | Spec | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|---|---|
| I | D E N | 6 8 0 2 | 0 2 | W1002 | 135-91 | 02 | 14 |
| I | P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | WILLIAMS CREEK | | |

Upper Tier Geodata: %REC / ROCK TYPE / FOLIATION / S/F M/F / KF LI HE BI / MA AZ BO CP CC

Lower Tier Geodata: %RQD / L/F / SI CL EP CA / TE PY MT MO

| Key | Flag | From | To | Sample No. / Rock Type / Remarks | Fracture | Struct | Dip | Alteration |
|---|---|---|---|---|---|---|---|---|
| / | N2 | 23.40 | 24.00 | X3 | | D/ | 75° | |
| R | | | | STRONG KF AND QZ; | | | | |
| / | N3 | 24.85 | 28.00 | 8 2c? | | D/ | 55° | |
| L | | | | | | | | |
| R | | | | UNIT 2c LIGHT COLORED, FINE GRAINED - LOOKS LIKE UNIT 5 AS 20% PATCHES OF 2b' APLITIZED 2b. WEAK KF+EP ENVELOPES; THIS SIMILAR TO 2c SEEN SINCE START OF DRILLHOLE | | | | |
| / | P | 30.00 | 40.00 | 2b | 11 0.6 | FO | 45 EC | |
| L | | | | | 0.1 | | | /F C- |
| R | | | | TYPICAL 2b | | | | |
| / | N1 | 30.20 | 33.10 | 9 5 | | C/ | U20° | |
| L | | | | | | C/ | U20° | |
| R | | | | PREVIOUSLY CALLED THIS LIGHT COLORED 2a; UNIT 5 LIGHT COLORED <1% CL EX MAFICS, NOTE REMNANTS OF UNIT 2b' 30.8-31.1 AND 0.3 FT ON LOWER CONTACT-UNIT 3 - IN PLACES SHEARED LOOK; | | | | |
| / | N2 | 34.00 | 35.30 | X5 | | | | |
| R | | | | TYPICAL | | D/ | U30° | |
| / | N3 | | | 6 1a | | | | |
| R | | | | LENSES HB? > BI | | | | |
| / | N4 | 38.70 | 39.60 | X5 | | C | U10° | |
| L | | | | | | | D70° | |
| R | | | | 1-2% MAFICS; BOTTOM 0.2 FT SHEARED UNIT 3 | | | | |
| / | P | 40.00 | 50.00 | 26 | 1.3 0.5 | FO | | FD 0 |
| L | | | | | 6.2 | | | F-C- |
| R | | | | IN PLACES STRONG BLEBS <0.2 FT MAFICS; | | | | |
| / | N1 | 49.90 | 49.95 | | | F/ | 45° | |
| R | | | | 10 MM CA SHEAR - WEAK FAULT; MINOR EP? - SHEARED; | | | | |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: PROJECT W1002 — WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK — DRILL HOLE 1/35-91 — PAGE 03 OF 14

Survey Data: MT/FT FT

| FROM | TO | RECOVERY % | ROCK TYPE | FOLIATION S/F M/F | FRACTURE COUNT | STRUCT. ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION CY | CB | MG | XX | PY | CP | GL | YY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50.00 | 60.00 | | 2b | | 21 0.6 | FO | | D40 E+ | | | | | | | | | | |
| | | | | | 01 | | | | KF | LT | HE | BI | | MA | AZ | BO | CP | CC |
| 50.15 | 52.50 | X | | | | D/ | | 10° | | | | | | | | | | |
| 55.55 | 56.60 | 95 | | | | | | | | | | | | | | | | |
| 56.60 | 56.95 | X | 1d | | | | | | | | | | | | | | | |
| 60.00 | 70.00 | | 2b | | 0913 | FO | | D60 E+ | | | | | | | | | | |
| | | | | | 02 | | | | | | | | | | | | | |
| 66.05 | 66.10 | X | 3 | | | D/ | | U40° | | | | | | | | | | |
| 67.30 | 66.50 | | 2c | | | C/ | | D05° | | | | | | | | | | |
| | | | | | | C/ | | D75° | | | | | | | | | | |
| 68.95 | 69.10 | | 3 | | | D/ | | D50° | | | | | | | | | | |
| 69.20 | 69.30 | | 3 | | | D/ | | U50° | | | | | | | | | | |
| 70.00 | 80.00 | | 2b | | 1509 | FO | | D45 E+ | | | | | | | | | | |
| | | | | | 00 | | | | | | | | | | | | | |
| 70.50 | 76.60 | X | 3 | | | D/ | | U65° | | | | | | | | | | |
| 78.00 | 75.40 | | 4S | | | D/ | | 65° | | | | | | | | | | |

FROM
/P 50.00 60.00 2b
L
R TYPICAL - KAPE WHITE PHENOCRYSTS - TRANSITIONAL
/N1 50.15 52.50 X D/ 10°
R 1-2% CHLOPITE ON MAFICS. EP FRACTURE ON LOWER CONTACT
R KF RELATED TO EP FRACTURES
/N2 55.55 56.60 95
P VAGUE CONTACTS. LIGHT COLORED FINE GRAINED AT TOP AND MEDIUM
COLORED, MEDIUM GRAINED AT BOTTOM WITH 20mm BAND OF UNIT 1d
/N3 56.60 56.95 X 1d
/P 60.00 70.00 2b 0913 FO D60 E+ D/
L 02 /E-C
P TYPICAL, IN PLACES STRONG FO;
/N1 66.05 66.10 X 3 D/ U40°
/N2 67.30 66.50 2c C/ D05°
L C/ D75°
R UNIT 2c ?- CONTACT XCUT FO;
/N3 68.95 69.10 3 D/ D50°
R FINE GRAINED 2-3% MAFICS WEAK FF;
/N4 69.20 69.30 3 D/ U50°
R VERY WEAK MAFICS
/P 70.00 80.00 2b 1509 FO D45 E+ D/
L 00 /E-C
P FRACTURES - MOSTLY 60-75°; DECREASING MAFICS, RARE WHITE PHENOCRYSTS
5';
/N1 70.50 76.60 X3 D/ U65°
/N2 78.00 75.40 4S D/ 65°
THREE BANDS 4025FT EACH. 1 PREGOLIAR COPY TALTS 2-1% MAFICS

1 = One 2 = Two 3 = Seven Ø = Alpha O for I = Alpha I 2 = Alpha Z $ = Alpha S 0 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity Data | Flag | Format Version | Spec | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|---|---|
| I | DEN | 6802 | 02 | W1002 | /735-97/ | 04 | 14 |

**WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

MT/FT: FT

| Upper Tier Geodata | %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower Tier Geodata | %RQD | | | L/F | SI | CL | EP | CA | TE | PY | MT | MO | |

| Key | Flag | FROM | TO | SAMPLE NO. / INT. | Fracture | Struct | Dip | Alteration | MT |
|---|---|---|---|---|---|---|---|---|---|
| / | N3 | 79.70 | 80.00 | X 5 | | D/ | U35° | | |
| R | SHEARED | | | | | | | | |
| / | P | 80.00 | 90.00 | 2b | 1211 | | | o | |
| L | | | | | 0.3 | | | / F-C | D/ |
| R | TOWARDS BOTTOM CONTACT RARE WHITE PHENOCRYSTS; | | | | | | | | |
| / | N1 | 82.80 | 83.20 | X 5 | | C/ | U65° | | |
| R | WEAK <1% MAFICS; | | | | | C/ | U38° | | |
| / | N2 | 83.20 | 90.00 | X 2c | | | | | |
| R | WEAK WHITE PHENOCRYSTS <15MM; | | | | | | | | |
| / | P | 90.00 | 100.00 | 2c | 1409 | FO | 45°E= | o | |
| L | | | | | 00 | | | / F-C | D/ |
| R | FAIR-MOD FR EP AND ENVELOPE KF AROUND 96FT; | | | | | | | | |
| / | N1 | 98.10 | 100.00 | X 1f | | C/ | D60° | | |
| L | | | | | | | | | |
| R | BOTTOM CONTACT 0.5FT- SHEARED, FINE AUGEN | | | | | | | | |
| / | P | 100.00 | 110.00 | 2b | 1407 | FO | D40° | o | |
| L | | | | | 0.3 | | | / OC | |
| R | STRONGER FOLIATION THAN NORMAL; | | | | | | | | |
| / | N1 | 100.00 | 100.40 | X 1f | | C | D65° | | |
| / | N2 | 104.70 | 105.00 | X 3 | | D/ | 75° | | |
| / | N3 | 105.00 | 106.20 | X 1f | | | | | |
| | MEDIUM GRAINED FX AND QZ | | | | | | | | |
| / | N4 | 106.20 | 106.85 | X 3 | | D/ | D75 | | |
| R | STRONG KF; | | | | | | | | |

Z = Alpha Z | I or i = Alpha I | Ø = Alpha O | 7 = Seven | 2 = Two | 1 = One | 0 = Zero | S = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata | GRAPHIC

FLAG: DEN 6 B 0 2 0 2 | IDENTITY OF PROJECT (OR SUB-PROJECT (UNIQUE)): W1002 | HOLE-TRAVERSE NUMBER: /35-9/

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK

FROM: | TO: | MT/FT: FT

| FROM | TO | SAMPLE NO. | INT. | RECOVERY %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI HE BI | MA AZ BO CP CC | SI CL EP CA | TE PY MT MO |
|---|---|---|---|---|---|---|---|---|---|---|---|
| /N5 | 106.85 | 107.45 | | X | 1b | | | | | | |
| | | | | HAFICS - 2D ?- NB; | | | | | | | |
| /N6 | 107.45 | 109.30 | | X | 2c | | | | | | |
| P | | | | LIGHT AND DARK VARIETY; | | | | | | | |
| / | 109.30 | 110.00 | | X | 3 | | | C/ | U20° | | |
| R | | | | FOOTWALL CONTACT PARALLELS | 2c WALLROCK; | | | | | | |
| /P | 110.00 | 120.00 | | | 2c | | 15 06 | FO | D55° | O | |
| U | | | | | | | 01 | | / | OC- | D/ |
| P | | | | LIGHT COLORED WITH 10-60MM HB RICH BANDS TO LIGHT AND BANDS | | | | | | | |
| | | | | CONCENTRATED AT TOP, 2c-STRONGER FO THAN NORMAL | | | | | | | |
| /N1 | 110.00 | 110.80 | | X | 3 | | | C/ | D75° | | |
| R | | | | WALLROCK CONTACT PARALLEL CORE AT 5°; | | | | | | | |
| /N2 | 112.20 | 113.10 | | | 2c | | | | | | |
| /N3 | 113.10 | 113.30 | | X | 1a | | | | | | |
| /N4 | 116.0 | 117.50 | | X | 5 | | | C/ | U75° | | |
| L | | | | | | | | C/ | D05° | | |
| P | | | | 0.4FT UNIT 3 NEAR TOP, CONTACT; LIGHT GRAY FINE GRAINED, WEAK PERP- | | | | | | | |
| | | | | ER HAFICS | | | | | | | |
| /N5 | 118.50 | 118.95 | | | 3 | | | D/ | 75° | | |
| P | | | | SHEARED; | 118.95-119.2-SHEARED-NUGEN AND RUDITE; | | | | | | |
| /P | 120.00 | 130.00 | | | 2c | | 14 04 | FO | D30° | O | |
| U | | | | | | | 01 | | / | OC- | D/ |
| P | | | | AT TOP NORMAL TOWARDS BOTTOM ALTERNATING LIGHT AND DARK (INCREA- | | | | | | | |
| P | | | | SED HAFICS) COLORED; | | | | | | | |
| /N1 | 121.50 | 121.60 | | X | 3 | | | D/ | 75° | | |
| P | | | | SHEARED; | | | | | | | |

Any Zone Flag or Flag = CO Majority MAX or MIN or 001 – 999 | If Flag = 21-68 = S S No. w/ Flag = any no. 01-99 as dom | RECOVERY SS = Sample Serial No. | FROM TO | ROCK TYPE | RQD %RQD | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY | HASH TOTAL

1 = Alpha Z | 2 = Alpha Y | 3 = Alpha X | 4 = Alpha W | 5 = Alpha V | 6 = Zero | 7 = One | 8 = Two | 9 = Seven | 0 = Alpha O

International Geosystems Corporation — Geology System — MAIN FORM — Geoform

Identity Data: D E N | Format version 6 8 0 2 | Spec 0 2 | Identity of project: W1002 | ID of drillhole: 135-91 | Page 06 of 14

P R J: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | CA | TE | PY | MT | MO

| Key | Flag | FROM | TO | SAMPLE NO. / INT. | Fracture count | Struct ID | Dip | MU | CL | MO |
|---|---|---|---|---|---|---|---|---|---|---|
| / | N2 | 122.50 | 123.20 | X 5 | | C/ | D45° | | | |
| | | | | | | C/ | D30° | | | |
| / | N3 | 123.70 | 123.90 | X 1c | | | | | | |
| / | N4 | 123.90 | 124.60 | X 3 | | D/ | D60° | | | |
| R | BOTTOM PART SHEARED | | | | | | | | | |
| / | N5 | 125.70 | 126.00 | 3 | | C/ | D30° | | | |
| L | | | | | | C/ | U75° | | | |
| R | BOTTOM 15MM SHEARED | | | | | | | | | |
| / | N6 | 129.20 | 130.00 | X 5 | | C/ | D20° | | | |
| L | | | | | | | | | | |
| R | MEDIUM GRAY, FINE GRAINED, COLOR FINE MAFICS, CUT BY A FEW <10MM | | | | | | | | | |
| | DYKES OF UNIT 3 | | | | | | | | | |
| / | P | 130.00 | 140.00 | 2c | 11 08 | FO | D45° ED | | 0 | |
| L | | | | | 0.6 | | | / | D, C- | D/ |
| R | LIGHTER COLOR, BLEB QZ AND TOWARDS BOTTOM <25MM KF PHENOCRYSTS | | | | | | | | | |
| / | N1 | 130.00 | 130.90 | X 5 | | C/ | D75° | | | |
| R | WEAK <10MM UNIT 3 AT CONTACT | | | | | | | | | |
| / | P | 140.00 | 150.00 | 2c | 0.6 07 | FO | D55° | | 0 | |
| L | | | | | 0.6 | | | / | 0 C- | D/ |
| R | KF PHENOCRYSTS 15-40MM FAIR NUMBER AT TOP AND BOTTOM OF SECTION | | | | | | | | | |
| | EST 15-20% | | | | | | | | | |
| / | N1 | 140.50 | 141.00 | | | FZ | 15° | | | |
| R | WEAK SHEARED WITH CB VEINLETS AND HE STAINING ZONE | | | | | | | | | |
| / | N2 | 143.70 | 144.70 | X 1g | | | | | | |
| / | P | 156.00 | 160.00 | 2c | 08 12 | FO | 45° | | 0 | |
| L | | | | | 0.5 | | | / | 0 C- | D/ |
| R | IN PLACES UP TO 30% KF PHENOCRYSTS, MOST PLACES 10-15% KF | | | | | | | | | |
| R | PHENOCRYSTS UP TO 20%; | | | | | | | | | |

International Geosystems Corporation — Geolog System — MA"1 FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

Identity Data

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY MM DD | BY | ASSY BY | COMPLETED MM DD | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | | 135-91 | | | | | | | | | | | | | 67 | 72 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | |

Survey Data

| | FROM (DRM CPT OR Collar) | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG | NEG = DOWN | HASH TOTAL (NOT INCLUDING ANY BLANK FIELDS) | NORTHING | NEG = SOUTH | EASTING | NEG = WEST | ELEVATION | NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | Marker Log of Feature | | FT | | | | | | | | | | | | |

Upper Tier Geodata

| FLAG | Unit of Recov | RECOVERY | ROCK TYPE | FOLIATION | STRUCT ID | STRIKE AZM | DIP | DIR | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | CP | CL | YY | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM / SCL | Unit of Length F T . 2 | %REC | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | |

Lower Tier Geodata

| FLAG | M or F | Unit of RQD | RQD | ACE Form a | ENV | RTQ | TMI | QMI | TXI | TXJ | L/F | STRUCT ID | AZM | DIP | DIR | KF | MU | CL | EP | HE | FR | MO | SL | Hw Amt | Hpw2 | Hpw1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM / SCL | | %RQD | | | | | | | | | L/F | | | | | SI | CL | EP | | TE | PY | MT | MO | | | |

GRAPHIC

A: Any Zone Flag or Flag = COMposite, MAX or MIN or DST = 999 — Flag = 01-99 as per Zone No. 01-99 as per

| FROM | TO | SAMPLE NO. | INT. | RECOVERY | S = Sample Seria No. | AZ | DIP | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| | | FROM | TO | SAMPLE NO. | INT. | RECOVERY | S = Sample Seria No. | AZ | DIP | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|
| | N1 | 156.00 | 156.20 | | X3 | | | | D/ | 235° |
| | P | | | | BELOW 156 ROCK BECOMES DARKER AND INCREASED VEIN FINE FRACTURING | | | | | |
| / | N2 | 157.60 | 160.00 | | | | | | F2 | 45° CY PS |
| J | | | | | | | | | | 21 |
| R | | | | | WO BREAK SEEN. 1 MM FRACTURE FILLING COMMON, DARK GREEN COLOR. | | | | | |
| R | | | | | -PROPYLITIC ALTERED-SOPERCENE? | | | | | |
| / | P | 160.00 | 170.00 | | 2c | | | 07 18 04 | FO | D45° |
| J | | | | | | | | | | / |
| R | | | | | FAIR 12 OHM KF PHENOCRYSTS; 2 1/8 - 20%; | | | | | |
| / | N1 | 160.80 | 161.10 | | X3 | | | | D/ | 035° |
| / | N2 | 166.40 | 166.65 | | X3 | | | | D/ | 65° |
| / | P | 170.00 | 180.00 | | 2c | | | 11 09 08 | FO | 60° |
| J | | | | | | | | | | / |
| R | | | | | WEAK-FAIR KF PHENOCRYSTS; | | | | | |
| R | | | | | 171.0-172.3 - INCREASED FRACTURES 85° WITH HE-CA AND FAIR PROPYLITIC | | | | | |
| R | | | | | ALTERATION; | | | | | |
| / | N1 | 172.30 | 175.00 | | | | | | F2 | 35° |
| J | | | | | | | | | | / |
| R | | | | | MAIN BREAK 172.8 - 35° TO LOWER CONTACT STRONG FRACTURE CA, WEAK | | | | | |
| | | | | | WEAK FAIR FAULT, DOWN 175 - INCREASED WEAK FRACTURES; | | | | | |
| / | P | 180.00 | 190.00 | | 2c | | | 20 07 07 | FO | P56° |
| J | | | | | | | | | | / |
| R | | | | | FAIR - 20% TO 30 MM KF PHENOCRYSTS; | | | | | |
| / | P | 190.00 | 200.00 | | 2c | | | 16 12 01 | FO | 60° F4 |
| J | | | | | | | | | | / |
| R | | | | | 192 - BASE KF PHENOCRYSTS BELOW WEAK-RARE JUNTE PHENOCRYSTS; | | | | | |
| | | | | | BELOW 199 FT 1/4F PHENOCRYSTS APPEAR; | | | | | |

1 2 3 4 5 6 7

Z = Alpha Z; Y = Alpha Y; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; $ = Alpha $

International Geosystems Corporation — Geolo~ System — MA'' FORM — Geoform

ENTER KEYS IN COL. 5 TO ACTIVATE ENTRIES

Identity Data: PROJECT: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK — FORMAT VERSION: 6 B 0 2 0 2 — IDENTITY OF PROJECT (OR SUB-PROJECT) (UNIQUE): W1002 — ID OF DRILLHOLE/TRAVERSE: PRE-FIX / TYPE / NUMBER: /35-91 — PAGE: 06 — OF: 14

Survey Data: FROM (Metres Loc. of Feature) — TO — MT/FT: FT — TOTAL DEPTH-LENGTH — AZM — DECLINATION FROM TRUE N — V-ANG — ANG IS DOWN — HASH TOTAL EP+T+TD+AZM+V-ANG+N+E+EL NOT INCLUDING ANY BLANK FIELDS — NORTHING (METRES SOUTH) — EASTING (METRES WEST) — ELEVATION (METRES SUB-SEA)

Upper Tier Geodata: FLAG N A M S C L — Unit of Recov. — Unit of Length — FT

Lower Tier Geodata: FLAG N A M S C L — M or F — Unit of RQD — %RQD

GRAPHIC

| FROM | TO | %RECOVERY / SAMPLE NO. | INT. | ROCK TYPE | STRUCTURE | ALTERATION & MINERALIZATION | DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|
| 200.00 | 210.00 | | 2C M | | 13.13 Q7 | C/ 0 C° | | |
| | | 200-210 – FAIR IRREGULAR VEINLETS AT TOP AND LESS ABUNDANT BOTTOM; CONTACTS ARE LOW 20° – WEAK WHITE MICA | | | HEMATITE | | | |
| 210.00 | 220.00 | | 2C M | | 14.11 0.6 | FO 45° C/ F° C° | D/ | |
| | | FAIR WHITE PHENOCRYSTS TO 4.0 MM AU 10-15 MM; | | | | | | |
| 211.20 | 213.50 | | X5 | | | C/ U40° 75° | | |
| | | 210% UNITS MOSTLY NEAR OR ON CONTACTS; | | | | C/ | | |
| 220.00 | 230.00 | | 2C | | 15.04 Q3 | FO 40° C/ 0 C° | D/ | |
| | | WEAK-FAIR 0.40MM AND 1.0-2.0MM WHITE PHENOCRYSTS; | | | | | | |
| 221.10 | 223.80 | | 6S | | | C/ U60° | | |
| | | DYKES LEUCOCRATIC, FINE GRAINED, WEAK 2% MAFICS – UNIT ? – TRANSITION TO TRUE APLITE; | | | | | | |
| 224.50 | 226.20 | | X5 | | | | | |
| | | CORE 2 CONTACTS GROUND; MINOR (KF) APLITE | | | | | | |
| 229.00 | 229.80 | | 7 3 | | | D/ U35° | | |
| | | DYKES 4 MM TO 6 CMS; | | | | | | |
| 230.00 | 234.00 | | 2C | | | | | |
| 230.40 | 232.3 | | 9 1C | | | D45° | | |
| | | INCREASING BI TO LOWER CONTACT; 10% BI, MINOR EI; | | | | | | |

1 = One 2 = Two 3 = Seven 4 = Alpha O 5 = Alpha I 6 = Alpha Z 7 = Alpha S 8 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

Identity Data: DIEN 6802 | W1002 | 135-91
PRIJ | WESTERN COPPER HOLDINGS — THERMAL EXPLORATION | WILLIAMS CREEK

| FROM | TO | RECOVERY % | ROCK TYPE | FOLIATION | S/F M/F | L/F | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES | SAMPLE NO. | INT. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 232.30 | 232.60 | | | | | | D/ | 040° | | | X | 5 |
| 233.70 | 233.95 | | | | | | D/ | 60° | | | X | 5 |
| | | 234 - START OF SAMPLING; LOGGING OF SPLIT CORE | | | | | | | | | | |
| 234.00 | 239.00 | | 2c | | | | FO | 45° | | HE | | |
| | | | | | | | | | | DIC | | |
| | | WEAK 2-10 cm WIDE PINK OOCRYSTS; EW PLANES ABOVE NORMAL BIOTITE, | | | | | | | | | | |
| | | BT INCREASES TO LOWER CONTACT; | | | | | | | | | | |
| 235.50 | 236.20 | | 4S | | | | | | | | | |
| | | LOOKS LIKE DYKES; LOW ANGLE TO CORE; | | | | | | | | | | |
| 237.55 | 238.20 | | | | | | | | | | | |
| | | WEAK FINE BIOTITE SPOTTING ON FRACTURES; | | | | | | | | | | |
| 239.00 | 244.00 | | 1a | | | | | | | HE | | |
| | | | | | | | | | | BIO | | |
| | | BIOTITIZED 2c; | | | | | | | | | | |
| 240.50 | 242.30 | | | | | | | | | | X | 3 |
| | | LEUCOCRATIC MEDIUM GRAINED WEAK KF, 3% BIOTITE STRONG FOLIATED | | | | | | | | | | |
| | | POSSIBLE FELSENT COLORED 1a; | | | | | | | | | | |
| 242.30 | 243.50 | | 2c | | | | | | | | X | 2 |
| 248.50 | 244.00 | | | | | | | | | | X | 3 |
| | | SHEARED DYKE - PINK FELSIC WALL ROCK | | | | | FO | | | | | |

Key: 1 = Alpha Z; 2 = Alpha I; 3 = Alpha O; 4 = Seven; 5 = Two; 6 = One; 7 = Zero; 8 = Alpha S

International Geosystems Corporation — Geolo~ System — MA FORM — Geoform

**Identity Data:** FORMAT VERSION 6 9 0 2 0 2 — IDENTITY OF PROJECT: W1002 — ID OF DRILLHOLE: 135-91 — PAGE 10 OF 14

**WESTERN COPPER HOLDINGS – THERMAL EXPLORATION** — DRILLING BY: **WILLIAMS CREEK**

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI — MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP CA — TE PY MT MO

| Key | Flag | FROM | TO | SAMPLE NO. / INT. / ROCK TYPE | STRUCT. | DIP | TE / MA | MO |
|---|---|---|---|---|---|---|---|---|
| / | P | 244.00 | 254.00 | 1g | FO | D?O | | |
| L | | | | | | | | |
| R | | | | | | | | |
| / | N1 | 244.00 | 244.20 | X3 | | | CC | |
| L | | | | | | | CC | |
| R | | | | NOTE INCREASED MC IN UNIT 3 – GREATER CA; | | | | |
| / | N1 | 244.20 | 244.20 | X1a | | | CC | |
| L | | | | | | | CC | |
| / | N2 | 244.20 | 245.30 | X1g | | | | |
| L | | | | | | | C > | D 1 |
| R | | | | TE – TRANSPORTED & INSITU; TRACE CP AND PY? | | | C > D. | |
| / | | 245.30 | 246.95 | 93 | | | C – | |
| L | | | | | | | C – | |
| R | | | | TE & MC WEAKENS TOWARDS BOTTOM; | | | | |
| / | | 246.95 | 247.50 | 9ia | | | C – | |
| L | | | | | | | C – | |
| R | | | | | | | | |
| / | | 247.50 | 248.80 | 1f | | | C* | |
| L | | | | | | | D > | |
| R | | | | ZE COMMON COATING FRACTURES; INSITU TE | | | | |
| / | | 248.80 | 250.70 | X5 | | | C* | |
| L | | | | | | | CC | |
| R | | | | MC WEAKENS TO LOWER CONTACT – APLITE DYKE | | | | |

Ø = Alpha O — 1 = One — 2 = Two — 7 = Seven — Z = Alpha Z — I or i = Alpha I — 0 = Zero — S = Alpha S

International Geosystems Corporation — Geolo~ System — M~ 1 FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata | GRAPHIC

I D E N 6 8 0 2 0 2 — IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 — PRE-FIX / TYPE / NUMBER: / 35-97

I P R I: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

S: FROM / TO — MT/FT: FT

Upper Tier Geodata: RECOVERY %REC — ROCK TYPE — FOLIATION — FRACTURE COUNT S/F M/F — KF LI — HE BI — MA AZ — BO CP CC

Lower Tier Geodata: RQD %RQD — L/F — SI CL — EP — TE PY — MT MO

A: FROM / TO — SAMPLE NO. — INT.

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| 250.70 | 254.00 | | 1C | |
| | | TOWARDS BOTTOM DECREASING AMOUNT OF BT AND HNBL | | |
| 254.00 | 264.00 | | 1C | Fo 65° |
| | | TRANSITIONAL AT TOP FROM 1C TO 1C; FRESH ROCK - SLIGHTLY OXIDIZED; | | WEAKLY |
| 254.70 | 256.00 | | 1C | |
| | | ROCK FRESH AT TOP BUT INCREASING WEA TO LOWER CONTACT; FAULT AT 256? DECREASING WEA TO LOWER CONTACT | | |
| 256.00 | 257.70 | | 1C | |
| | | WEAK MNR, LIGHT COLORED, WEAK BT 3-5% | | |
| 257.70 | 258.40 | | 1C | |
| | | STRONG CRUST MC; | | |
| 258.40 | 260.00 | | 1C | |
| | | BANDS UP TO 20MM DECREASING TO BOTTOM | | |
| 260.00 | 262.50 | | 1C | |
| | | 1C?-BIOTITE RED GRANODIORITE 2B?; WEA OXLM ON FRACTURES; | | |
| 262.0 | 264.00 | | 1C | |
| 264.00 | 274.00 | | 1C | Fo 60° |
| | | MC INCREASES TOWARDS 268ET - WEAK FAULT; MED-LIGHT CP-COLORED WITH UP TO 5CM DARK (HIGHER BT) BANDS HAVING BETTER MINERALIZATION | | |

Z = Alpha Z; Y = Alpha Y; Ø = Alpha O; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

81-130

International Geosystems Corporation — Geolo~ System — MA FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DEN 6802 — IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 — DRILLHOLE / TRAVERSE NUMBER: 135-91

PRJ — WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data — FROM / TO / MT/FT / TOTAL DEPTH-LENGTH / AZM / V-ANG / NORTHING / EASTING / ELEVATION

Upper Tier Geodata — FLAG NAM SCL — Unit of Recov — Unit of Length — %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI — HE BI — MA AZ — BO CP CC

Lower Tier Geodata — FLAG NAM SCL — Unit of RQD — %RQD — L/F — SI GL — EP CA — TE PY — MT MO

GRAPHIC

| | FROM | TO | SAMPLE NO. | INT. |
|---|---|---|---|---|
| /N1 | 264.00 | 266.8 | | Y3 |
| L | | | | |
| R | | | IN PART UNIT 5 | |
| /N2 | 272.20 | 274.00 | | 1a1 |
| L | | | | |
| R | | | THIS WORKING IS BIOTITIZED 2b OR 2c, SMH BAND 1c; MIN/2 ABSENT | |
| /P | 274.00 | 289.00 | | 2a |
| L | | | | |
| R | | | STRONG PERVASIVE CHLORITIZATION; FAIR FINE FRACTURES; RARE WHITE PHENOCRYSTS | |
| /P | 274.00 | 274.80 | | 1a1 |
| L | | | | |
| R | | | AS 272.20-274.00 FT; | |
| /N1 | 274.80 | 275.00 | | |
| R | | | SHEARED AND FINE BRECCIA; | |
| /N1 | 275.00 | 277.50 | | X1c |
| L | | | | |
| R | | | 20% 10-20MM BANDS OF 1F, TARNISHED BY SERI, OXIDES ESPECIALLY AT TOP & SX AT BOTTOM; | |
| /P | 277.50 | 279.00 | | 2c |
| L | | | | |
| R | | | WEAK MC AND TC; CA STARTS BELOW 278 | |
| R | | | 279.0 - 284 FINE FRACTURES LOW ANGLE COMMON AND FRACTURE | |
| R | | | CA-HE FAIRLY COMMON; | |
| /P | 284.00 | 294.00 | | 2c |
| | | | | / OED |
| | | | CA-INTERGRAN. & FRACTURES-STRONGER THAN NORMAL; FRACTURES AND | |
| | | | WEAK SHEARS DECREASE TO BOTTOM; | |

1 = One, 2 = Two, 7 = Seven, Z = Alpha Z, I or i = Alpha I, Ø = Alpha O, 0 = Zero, $ = Alpha $

International Geosystems Corporation — Geolo~ System — M/ I FORM — Geoform

DEN 6 B 0 2 0 2 — W1002 — 135-91 — PAGE 13 OF 14

PRJ: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: Unit of Recov: FT; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI; MA AZ BO CP CC

Lower Tier Geodata: %RQD; L/F; SI CL EP A; TE PY MT MO

A: FROM — TO — SAMPLE NO. — INT.

| Line | Key | Flag | From | To | Rock Type | Struct ID | Dip | Alteration (cols 59–64) | Alteration (col 67–) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | / | N1 | 284.20 | 285. | X5 | D/ | 35? | | | |
| 4 | / | N2 | 285.60 | 285.64 | X2c | F/ | 50 | | | |
| 5 | | | | | | | | | | 10 MM HE-CA SHEAR-BRECCIA-WEAK FAULT |
| 7 | / | | 289.40 | 289.43 | X2c | F/ | | | | |
| 8 | R | | | | | | | | | WEAK 10 MM HE SHEAR; |
| 9 | | | | | | | | / | | |
| 10 | / | N3 | 289.80 | 290.00 | X1f | | | | C- | |
| 11 | L | | | | | | | | Cl- | |
| 12 | R | | | | | | | | | MINOR MC & TE; |
| 14 | / | N4 | 291.55 | 291.80 | X1f | | | D- | C. | |
| 15 | L | | | | | | | | D. | |
| 16 | R | | | | | | | | | VERY WEAK [illegible] |
| 17 | | | | | | | | | 0 | |
| 18 | / | N5 | 293.20 | 293.50 | 1f | | | D- | 0 | |
| 19 | L | | | | | | | | | |
| 21 | / | | 293.50 | 294.00 | 1c | | | 0 | 0 | |
| 22 | L | | | | | | | | 0 | |
| 23 | R | | | | | | | | | LIGHT COLORED-WEAK BIOTITE- |
| 25 | / | P | 294.00 | 299.00 | 1c | FO | 40° | / | CC | |
| 26 | L | | | | | | | | C- | |
| 27 | R | | | | | | | | | 1c-LIGHT COLORED, INCREASING DARKER COLORS-BI TOWARDS LOWER CONT- |
| 28 | | | | | | | | | | ACT; MC ON JOINT PEGMATITIC? DYKES |
| 30 | / | P | 299.00 | 304.00 | 2c | | | F* | | |
| 31 | L | | | | | | | / 0 0 | | |
| 32 | R | | | | | | | | | MOD. HE SHEARS AND FRACTURES-LOW ANGLE; |
| 34 | / | N1 | 299.00 | 299.70 | 1f | | | / | FD C. | |
| 35 | L | | | | | | | | D- | |
| 36 | R | | | | | | | | | AT LOWER CONTACT [illegible] |

81-130

International Geosystems Corporation — Geolog System — MAP FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | 135 | -97 | | | | | | | | | | | | | | | | | | | | |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

Survey Data

| S | TURN @ PT. 000 = Collar | FROM Marks Lot or Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG | NEG'V DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG'V SOUTH | EASTING | NEG'V WEST | ELEVATION | NEG'V SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | ° | ° | FT | | | | | | | | | | | | |

Upper Tier Geodata

| / | FLAG NAM SCL | Unit of Recov. | Unit of Length F T M | RECOVERY | T mod | Min | ROCK TYPE | TYPIFYING ARMS TX1 | TX2 | GAL/MAT QM1 | TEXTURES TX1 | TX2 | GRAIN FA | CR | C | MP | FRACTURE COUNT 1 | 2 | Int Typ | T. | STRUCT ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MC | AX | PY | CP | GL | YY | SUMMARY Fa | Al | Mc |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | | | | %REC | | | ROCK TYPE | | | | FOLIATION | | | | | | S/F | M/F | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | |

Lower Tier Geodata

| L | FLAG NAM SCL | Unit of RQD | RQD | AGE Formn | ENV | RTO | Colour | TM1 | QM2 | TX1 | TX2 | SI | RN | SO | C | S | IN | L | SI | Typ | T. | STRUCT ID | STRIKE AZM | DIP To Right | KF | MU | CY | CB | MC | HW Amt | PR | MO | SL | HW Amt | HOW 1 | HOW 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | | | %RQD | | | | | | | | | | | | | | | L/F | | | | | | | SI | CL | EP | CA | | TE | PY | MT | MO | | | |

GRAPHIC

A — Any Zone Flag or Pick = Composite MAX or MIN or 001 – 999 — If Flag = 21-49 in 5.5 No. of Sample Intervals — If Flag = 50-99 in 5.5 No. of Sample Intervals

| A | FROM | TO | SAMPLE NO. | INT. | RECOVERY | A1 From | To | A2 From | To | A3 From | To | A4 From | To | A5 From | To | A6 From | To | A7 From | To | A8 From | To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | N2 | 299.70 | 301.00 | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| K | EPW | 301.00 | | | | | | | | | | | | | | | | | | | | |
| / | | 301.00 | 302.70 | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| / | P | 304.00 | 314.00 | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| / | P | 314.00 | 316.00 | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| / | N1 | 314.70 | 314.70 | | | | | | | | | | | | | | | | | | | |
| P | | | | | | | | | | | | | | | | | | | | | | |
| K | END | 316.00 | | | | | | | | | | | | | | | | | | | | |

Ruler: 1 2 3 4 5 6 7 — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

$ = Alpha S  0 = Zero  1 = One  2 = Two  7 = Seven  ∅ = Alpha O  I or ! = Alpha I  Z = Alpha Z

International Geo[…]ems Corporation — Geo[…] System — RECO[…]Y FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID IN DRILLHOLE, TRAVERSE PRE-FIX / TYPE / NUMBER | SIZE OF CORE OR HOLE | PAGE | OF |
|---|---|---|---|---|---|---|---|---|
| I | D E N | 6 B 0 2 0 | 2 | W1002 | 135-91 | HQ | 01 | 01 |
| I | P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | WILLIAMS CREEK | | |

Survey Data: MT/FT: FT; TOTAL DEPTH-LENGTH: 314; AZM: 24?; V-ANG: -51?

Upper Tier Geodata: RECOVERY — %REC

Lower Tier Geodata: RQD — %RQD

| KEY | FROM | TO | %RQD | Remarks |
|---|---|---|---|---|
| L | 10 | 20 | 37 | |
| L | 20 | 30 | 42 | |
| L | 30 | 40 | 56 | |
| L | 40 | 50 | 52 | |
| L | 50 | 60 | 49 | |
| L | 60 | 70 | 21 | |
| L | 70 | 80 | 38 | |
| L | 80 | 90 | 32 | |
| L | 90 | 100 | 39 | |
| L | 100 | 110 | 34 | |
| L | 110 | 120 | 26 | |
| L | 120 | 130 | 43 | |
| L | 130 | 140 | 17 | |
| L | 140 | 150 | 25 | |
| L | 150 | 160 | 33 | |
| L | 160 | 170 | 20 | |
| L | 170 | 180 | 14 | |
| L | 180 | 190 | 5 | |
| L | 190 | 200 | 23 | |
| L | 200 | 210 | 23 | |
| L | 210 | 220 | 16 | |
| L | 220 | 230 | 16 | 230' ONWARDS SPLIT TO END OF HOLE |

International Geosys ns Corporation    Geolc System    RECOV Y FORM    Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX / TYPE / NUMBER |
|---|---|---|---|---|
| D E N | 6 8 0 2 | 0 2 | W1002 | 1 - 35 - 01 |

P R J: **WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

MT/FT: FT

Unit of Recov: % REC (circled)

| FROM | TO | RECOVERY (%REC) |
|---|---|---|
| 60 | 160 | 85 |
| 160 | 260 | 94 |
| 260 | 360 | 100 |
| 360 | 460 | 98 |
| 460 | 560 | 97 |
| 560 | 660 | 98 |
| 660 | 760 | 100 |
| 760 | 860 | 100 |
| 860 | 960 | 100 |
| 960 | 1060 | 100 |
| 1060 | 1160 | 99 |
| 1160 | 1260 | 100 |
| 1260 | 1360 | 99 |
| 1360 | 1460 | 98 |
| 1460 | 1560 | 100 |
| 1560 | 1650 | 82 |
| 1650 | 1750 | 90 |
| 1750 | 1840 | 90 |
| 1840 | 1940 | 98 |
| 1940 | 2040 | 98 |
| 2040 | 2140 | 100 |
| 2140 | 2240 | 100 |
| 2240 | 2340 | 91 |
| 2340 | 2450 | 94 |
| 2450 | 2560 | 93 |
| 2560 | 2660 | 98 |
| 2660 | 2750 | 100 |
| 2750 | 2850 | 95 |
| 2850 | 2956 | 100 |
| 2956 | 3056 | 100 |
| 3056 | 3160 | 98 |

0 = Zero 1 = One 2 = Two 7 = Seven 1 or I = Alpha I Ø = Alpha O 2 = Alpha Z S = Alpha S

International Geosys ms Corporation — Geolo_ System — SAM E FORM — Geoform

| Key | Flag | Format Version | Spec | Identity of Project | ID of Drillhole | Size of Core or Hole | Drilling By | Started YY MM DD | Completed MM DD | Co-ord System | Grid Azimuth | Page | Of |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 1-35-01 | 46 | OLYMPIC | 91 08 19 | 08 20 | GRID | 337. | 01 | 01 |

| Key | Flag | Project |
|---|---|---|
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK |

| Key | Turn G PT. 000 = Collar | From | To | MT/FT | Total Depth/Length | AZM | V-ANG |
|---|---|---|---|---|---|---|---|
| S | 000 | 0. | . | FT | 316. | 247. | -50. |

| Key | Flag | From | To | Sample No. | Int. | Cu % | CuNsol % | [illegible] oz/T | Ag oz/T |
|---|---|---|---|---|---|---|---|---|---|
| K | H/W | | | | | | | | |
| S | | 3160 | | | 25 | -49 | | | |
| K | F/W | | | | | | | | |
| A | SAM | 2340 | 2440 | T15532 | 100 | 0.15 | 0.10 | <0.002 | <0.01 |
| | | 2440 | 2540 | T15533 | 100 | 1.02 | 0.94 | 0.006 | 0.05 |
| | | 2540 | 2640 | T15534 | 100 | 1.96 | 1.82 | 0.008 | 0.06 |
| | | 2640 | 2740 | T15535 | 100 | 1.26 | 1.16 | 0.004 | 0.05 |
| | | 2740 | 2840 | T15536 | 100 | 0.33 | 0.31 | <0.002 | <0.01 |
| | | 2840 | 2940 | T15537 | 100 | 0.39 | 0.35 | 0.002 | 0.03 |
| | | 2940 | 2990 | T15538 | 50 | 0.99 | 0.94 | 0.010 | 0.11 |
| | | 2990 | 3040 | T15539 | 50 | 1.36 | 1.27 | 0.030 | 0.11 |
| | | 3040 | 3140 | T15540 | 100 | 0.01 | 002 | <0.002 | <0.01 |

International Geosy-tems Corporation — Geol- - System — M - N FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| Field | Value |
|---|---|
| Flag | DEN |
| Format Version | 6 8 0 2 |
| Spec | 0 2 |
| Identity of Project | W1002 |
| ID of Drillhole | 138-91 |
| Size of Core | HQ |
| Geologged (YY MM DD) | 91 08 |
| By | MH |
| Asst By | MPP |
| Drilling By | OLYMPIC |
| Started (YY MM DD) | 91 08 21 |
| Completed (MM DD) | 08 22 |
| Co-ord System | GRID |
| Grid Azimuth | 337. |
| Page | 01 of 13 |
| PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| MT/FT | FT |
| Total Depth/Length | 426. |
| AZM | 247. |
| V-ANG | -50. |
| Northing | 1800.0 |
| Easting | 224.2 |
| Elevation | 2835.9 |
| Upper Tier Geodata | Unit of Recov. FT; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC |
| Lower Tier Geodata | Unit of RQD; %RQD; L/F; SI CL EP CA TE PY MT MO |

| Key | Flag | From | To | Sample No. / Recovery | Rock Type / Int. | Fracture | Struct | Dip | Alteration | Line |
|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 0.00 | 13.00 | 0.0 | CASN | | | | | 1 |
| | | | | | | | | | | 2 |
| / | P | | | | | | | | | 3 |
| L | | 13.00 | 20.00 | | 2c | | FO | 50° | C. | 4 |
| R | | | | | | | | | / 0C- | 5 |
| / | N1 | 14.50 | 14.65 | | | | F/ | 25° | | 7 |
| R | | 20MM SHEARED - WEAK FAULT; | | | | | | | | 8 |
| / | N2 | 14.65 | 16.10 | | X3 | | D/ | 35° | | 10 |
| / | N3 | 17.60 | 20.00 | | X5 | | C/ | 25° | | 12 |
| R | | CONTACT - MED-DARK GRAY FINE GRAINED WITH COLOR DUE TO FINE MAFIC | | | | | | | | 13 |
| R | | TOWARDS 20FT LIGHT COLORED, 41% MAFICS - MED GRAINED WITH KF PHENO- | | | | | | | | 14 |
| R | | CRYSTS; - WEAK PEGMATIZED; | | | | | | | | 15 |
| / | P | 20.00 | 30.00 | | 2c | 1707 | FO | 50° | C. | 17 |
| L | | | | | | 0.5 | | | / 0C. | 18 |
| R | | RARE WHITE PHENOCRYSTS | | | | | | | | 19 |
| / | N1 | 20.00 | 23.40 | | X5 | | C/ | 25° | | 21 |
| R | | AT TOP LIGHT COLORED & TOWARDS BOTTOM MED-DARK GRAY, FINE GRAINED | | | | | | | | 22 |
| | | WITH COLOR FINE MAFICS; CONTACT 2C FROM 21.0 TO 23.40 | | | | | | | | 23 |
| / | N2 | 25.50 | 30.00 | | X5 | | C/ | 60° | | 25 |
| R | | UPPER CONTACT WEAK SHEAR -60°; MEDIUM-DARK GRAY, FINE GRAINED WITH | | | | | | | | 26 |
| | | COLOR-FINE MAFICS; UNIT 3 DYKES SHARP CONTACT AT 27.4-0.1FT AND | | | | | | | | 27 |
| | | 28.6-28.8-50°; | | | | | | | | 28 |
| / | | 30.00 | 40.00 | | 2c | 1211 | FO | 60° | C- | 30 |
| L | | | | | | 0.5 | | | / 0C. | 31 |
| R | | | | | | | | | | 32 |
| / | N1 | 30.00 | 39.80 | | X5 | | C/ | 05° | | 34 |
| L | | | | | | | | | | 35 |
| R | | 36.0-39.80 - LOWER CONTACT PARALLELS CORE; MED-DARK GRAY FINE GRAINED | | | | | | | | 36 |
| | | WITH COLOR-FINE MAFICS; 31.0-33.4 - FRACTURES 15° WITH CAVITIES | | | | | | | | 37 |
| | | LINED WITH ZE? CRYSTALS; | | | | | | | | 38 |

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: FLAG DEN 6802 02 | FORMAT VERSION W1002 | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) /35-91 | PRJ WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK | PAGE 2 OF 13

Survey Data: TURN G.FT. 000 = Collar | FROM Meters Loc. of Feature | TO | MT/FT FT | TOTAL DEPTH/LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IF DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IF SOUTH | EASTING NEG IF WEST | ELEVATION NEG IF SUB-SEA | SUMMARY

Upper Tier Geodata: FLAG NAM SCL | Unit of Recov. | Unit of Length F 7 2 | RECOVERY %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI | ALTERATION & MINERALIZATION DEFAULT SUITES HE BI MA AZ BO CP CC

Lower Tier Geodata: FLAG NAM SCL | M or F | Unit of RQD %RQD | RQD | ENV | REG | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP to Right | KF | MU | CL EP | HE | Hw Alm | FR | MO | SL | Hw Alm | How2 | How2 | SI CL

GRAPHIC

| FROM | TO | SAMPLE NO. | INT. | RECOVERY | RQD | ENV | REG | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP to Right | KF | MU | CL | EP | HE | Hw Alm | FR | MO | SL | Hw Alm | How2 | How2 | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 40.00 | 50.00 | | | | 2C | | | 1309 | FO | | 60° | EC | | F- | | | | | D/ | | | | |
| | | | | | | | | 0.5 | | | | | / | F- | O | | | | | | | | | |
| | | | | FAIR WHITE PHENOCRYSTS; EP STARTS AT 45 FT | | | | | | | | | | | | | | | | | | | | |
| 41.60 | 41.85 | | | | X3 | | | | D/ | | 85° | | | | | | | | | | | | | |
| 46.80 | 49.00 | | | | XF | | | | D/ | | 15° | | | | | | | | | | | | | |
| | | | | MEDIUM-DARK GRAY FINE GRAINED FINE PEGMATITE HAPLICS AT MIDDLE | | | | | | | | | | | | | | | | | | | | |
| | | | | LEUCOCRATIC WITH WEAK HAPLICS AND WEAK PEGMATITIZATION | | | | | | | | | | | | | | | | | | | | |
| 50.00 | 60.00 | | | | 2C | | | 1608 | FO | | 60° | | | F- | | | | | D/ | | | | |
| | | | | | | | | 0.9 | | | | | / | O C- | | | | | | | | | | |
| | | | | FAIR WHITE PHENOCRYSTS; | | | | | | | | | | | | | | | | | | | | |
| 53.30 | 60.00 | | | | 9S | | | | C/ | | 10° | | | | | | | | | | | | | |
| | | | | MED-DARK GRAY FINE GRAINED, COLOR FINE HAPLICS | | | | | | | | | | | | | | | | | | | | |
| | | | | 58A-58B-DIKE IN M3 | | | | | | | | | | | | | | | | | | | | |
| 60.00 | 70.00 | | | | 2C | | | 1507 | FO | | 55° | | | F- | | | | | D/ | | | | |
| | | | | | | | | 0.3 | | | | | / | O C- | | | | | | | | | | |
| | | | | FAIR WHITE PHENOCRYSTS 10-20MM; | | | | | | | | | | | | | | | | | | | | |
| 60.00 | 60.40 | | | | X5 | | | | C/ | | 20° | | | | | | | | | | | | | |
| | | | | AS 58.60-60.00 | | | | | | | | | | | | | | | | | | | | |
| 65.20 | 65.70 | | | | | | | F2 | | | 60° | | | | | | | | | | | | | |
| | | | | UP TO 10MM HAIRLINE SHEARS-FINE PEGMATITE, FAIR HALO | | | | | | | | | | | | | | | | | | | | |
| 70.00 | 80.00 | | | | 2C | | | 0705 | FO | | 50° | | | | | | | | | | | | | |
| | | | | | | | | 0.4 | | | | | | | | | | | | | | | | |
| | | | | FAIR WHITE PHENOCRYSTS; | | | | | | | | | | | | | | | | | | | | |
| 72.30 | 80.00 | | | | X3 | | | | | | | | | | | | | | | | | | | |
| | | | | ~60% FE-QZ PEGMATITE IN DARK & LIGHT BIOTITED, FINE GRAINED | | | | | | | | | | | | | | | | | | | | |
| | | | | UNIT 5 | | | | | | | | | | | | | | | | | | | | |

Z = Alpha Z | 1 or I = Alpha I | Ø = Alpha O | 7 = Seven | 2 = Two | 1 = One | 0 = Zero | S = Alpha S

International Geosystems Corporation — Geol System — M N FORM — Geoform

| | |
|---|---|
| Identity Data | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION |
| | WILLIAMS CREEK |
| | W1002 |
| | 138-91 |
| | PAGE 3 OF 3 |
| Survey Data | FROM / TO / MT/FT = FT |
| Upper Tier Geodata | RECOVERY %REC; ROCK TYPE; FOLIATION; S/F M/F; ALTERATION & MINERALIZATION DEFAULT SUITES |
| Lower Tier Geodata | RQD %RQD; L/F |

| FROM | TO | SAMPLE NO. | INT. | ROCK TYPE | FOLIATION | S/F M/F | STRUCT ID | DIP | DIP DIR | ALTERATION & MINERALIZATION DEFAULT SUITES | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 80.00 | 90.00 | | | 2c | | 1406 | FO | 50° | | F– | |
| | | | | | | 0.5 | | | | C– | |
| | | | | | | | | | | | |
| 81.50 | 81.60 | | X5 | | | | D/ | 45° | | | |
| 84.00 | 84.20 | | 3 | | | | D/ | 20° | | | |
| | | | | WEAK IMA FICS, MINOR KF, | | | | | | | |
| | | | | 853-859 - FAIR SHEETED FRACTURE - SHEARS, 25-35°, OFFSET 0.05 FT, UNIT 3 | | | | | | | |
| | | | | PYRITE; | | | | | | | |
| 89.50 | 89.50 | | X3 | | | | D/ | 05° | | | |
| 90.00 | 100.00 | | 2c | | | 1002 | FO | 60° | | C– | |
| | | | | | | 0.4 | | | / | 0.4 | D/ |
| | | | | WEAK WHITE PHENOCRYSTS; | | | | | | | |
| 94.20 | 94.65 | | X3 | | | | D/ | 40° | | | |
| | | | | WEAK KF, CONTACTS TRANSITIONAL | | | | | | | |
| 96.00 | 96.10 | | | | | | E/ | | | | |
| | | | | 10MM HEMA SHEAR AND BRECCIA - FAIR FAULT; | | | | | | | |
| 97.60 | 97.90 | | X3 | | | | D/ | 15° | | | |
| 99.00 | 99.60 | | X3 | | | | D/ | 60° | | | |
| | | | | | | | | | | | |
| 100.00 | 110.00 | | 2c | | | 0504 | FO | 35° | | F– | |
| | | | | | | 0.5 | | | / | 0.5 | D/ |
| | | | | PALE WHITE PHENOCRYSTS; SHEARS - PINK (HEMA) ALTERATION ENDS | | | | | | | |
| | | | | 110.50-109.0 - FAIR 35° HEMA FINE SHEARS TOWARD BOTTOM 9" | | | | | | | |
| 101.30 | 103.90 | | 63 | | | | D/ | 50° | | | |
| | | | | | | | | | | | |
| 105.50 | 105.65 | | X3 | | | | D/ | 45° | | | |

GRAPHIC

Z = Alpha Z; I or I = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geosys‑‑ms Corporation — Geolc System — M‑ N FORM — Geoform

| Key | Flag | Format version | Spec | Identity of project | ID of drillhole | Page | Of |
|---|---|---|---|---|---|---|---|
| D E N | 6 8 0 2 | 0 2 | | W1002 | 138‑91 | 04 | 13 |
| P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | WILLIAMS CREEK | | |

Survey data: FROM / TO / MT/FT: FT

Upper tier geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LT | HE | BI | MA | AZ | BO | CP | CC

Lower tier geodata: %RQD | L/F | SI | CL | EP | CA | TE | PY | MT | MO

| Line | Key | Flag | FROM | TO | SAMPLE NO. / Remarks | INT. | Fracture (43–46) | Struct ID | Dip | (59–60) | Alteration (61–64) | (71–72) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | / | P | 110.00 | 120.00 | | 2C | 10 0.5 | | | | C. | |
| 2 | L | | | | | | 0.3 | | | / | E. C. | |
| 3 | R | | | | FAIR WHITE PHENOCRYSTS | | | | | | | |
| 5 | / | N1 | 110.10 | 110.20 | | X3 | | D/ | 15° | | | |
| 6 | R | | | | 10MM | | | | | | | |
| 8 | | N2 | 111.00 | 111.16 | | X3 | | D/ | 55° | | | |
| 10 | R | | | | 111.16 – 114.0 – <5MM CA, CB HE SHEAR, PARALLEL CORE AND PINK (HE) | | | | | | | |
| 11 | | | | | ENVELOPE | | | | | | | |
| 13 | / | N3 | 117.00 | 117.70 | | S3 | | D/ | 45° | | | |
| 14 | R | | | | DYKES 5–35MM WIDE, | | | | | | | |
| 16 | / | P | 120.00 | 130.00 | | 2C | 0.5 10 | FO | 60° | | C– | |
| 17 | L | | | | | | 0.2 | | | / | F, C– | D/ |
| 18 | R | | | | RARE WHITE PHENOCRYSTS <15MM, | | | | | | | |
| 20 | / | N1 | 121.30 | 123.20 | | X3 | | D/ | 05 | | | |
| 22 | / | N2 | 127.10 | 127.30 | | X3 | | D/ | 60° | | | |
| 24 | / | N3 | 128.40 | 129.40 | | 61F | | | | | | |
| 25 | | | | | CONTACTS 65° AND 20° | | | | | | | |
| 27 | / | P | 130.00 | 140.00 | | 2C | 0.5 10 | FO | 50° | | C– | |
| 28 | L | | | | | | 0.4 | | | / | 0 C. | D/ |
| 29 | R | | | | WEAK <20MM WHITE PHENOCRYSTS | | | | | | | |
| 31 | / | N1 | 132.50 | 139.90 | | X3 | | C/ | 40° | | | |
| 32 | R | | | | TOP CUT-CUT AND DISPLACED - RIGHT HANDED BY <2MM SHEAR. | | | | | | | |
| 33 | | | | | LIGHT COLORED, FINE GRAINED WEAK MAFICS; WEAK <10MM PEGMATITE | | | | | | | |
| 34 | | | | | DYKES | | | | | | | |
| 36 | / | N2 | 138.30 | 140.00 | | X5 | | C/ | 45° | | | |
| 37 | R | | | | TOP CONTACT PARALLEL TO FO. LIGHT TO DARK COLORED WITH FINE MAFIC | | | | | | | |
| 38 | | | | | AT TOP CONTACT <0.1FT KF AND QZ XCUT TOP CONTACT | | | | | | | |

Z = Alpha Z; I or I = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geosy[illegible]ms Corporation — Geolo[illegible] System — MA[illegible]N FORM — Geoform

| Identity Data | | | | |
|---|---|---|---|---|
| Key: DEN | Format Version: 6 B 0 2 0 2 | Identity of Project: W1002 | ID of Drillhole: 138-91 | Page 5 of 13 |
| Key: PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | WILLIAMS CREEK | |

Survey Data: MT/FT: FT

Upper Tier Geodata: Unit of Recov: FT; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD; L/F; SI CL EP CA TE PY MT MO

| Key | Flag | From | To | Sample No. / Int. | Fracture count | Struc ID | Dip | Alteration | |
|---|---|---|---|---|---|---|---|---|---|
| / | P | 140.00 | 150.00 | 2c | 0910 | FO | 50° | C— | |
| L | | | | | 06 | | | OC | |
| R | WEAK WHITE PHENOCRYSTS; | | | | | | | | |
| / | N1 | 146.00 | 147.30 | 85 | | | 50° | | |
| R | LOWER CONTACT PARALLEL TO FO, LIGHT COLORED AND MEDIUM GRAY LAYERS | | | | | | | | |
| R | COLOR FINE MAFICS; PATCHES WEAK KF - ON FRACTURES? | | | | | | | | |
| / | N2 | 148.55 | 148.90 | X3 | | D/ | 65° | | |
| R | PEGMATIZED FINE GRAINED LIGHT COLOR | | | | | | | | |
| / | P | 150.00 | 160.00 | 2c | 1209 | FO | 60° | C— | |
| L | | | | | 03 | | | / F·C— | |
| R | RARE WHITE PHENOCRYSTS | | | | | | | | |
| | 152.5 - 153.5 - STRONG FRACTURE EP | | | | | | | | |
| / | N1 | 157.80 | 158.40 | X3 | | D/ | 35° | | |
| / | N2 | 159.20 | 159.70 | 8X | | D | 60° | | |
| / | P | 160.00 | 170.00 | 2c | 0612 | FO | 55° | C— | |
| L | | | | | 05 | | | / F·C— | D/ |
| P | WEAK WHITE PHENOCRYSTS; | | | | | | | | |
| / | N1 | 160.50 | 160.70 | X3 | | D/ | 40° | | |
| / | N2 | 163.00 | 164.40 | =3 | | D/ | 70° | | |
| R | DYKES 10-20MM; | | | | | | | | |
| | N3 | 169.20 | 170.00 | X5 | | D/ | 20° | | |
| | 0.15FT DYKE - MED GRAY, FINE GRAINED, VERY FINE MAFICS; | | | | | | | | |
| / | P | 170.00 | 180.00 | 2c | 0507 | FO | 45° | C· | |
| L | | | | | 01 | | | F-C— | D/ |
| R | FAIR WHITE PHENOCRYSTS, | | | | | | | | |

International Geosy-tems Corporation — Geolo System — M N FORM — Geoform

| Key | Flag | Format Version | Identity of Project | ID of Drillhole | Page | Of |
|---|---|---|---|---|---|---|
| I | D E N | 6 8 0 2 0 2 | W1002 | 138-97 | 06 | 12 |

**P R J:** WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

**MT/FT:** FT

Upper Tier Geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower Tier Geodata: %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO

| Key | Flag | From | To | Rock | Fracture | Struct | Dip | Alteration | Other |
|---|---|---|---|---|---|---|---|---|---|
| / | N1 | 175.20 | 176.50 | 05 | | C/ | 35° | | |
| L | | | | | | | 10° | | |
| R | | MED-DARK GRAY FINE GRAINED STRONG VERY FINE MAFICS; CONTACTS | | | | | | | |
| R | | SUB PARALLEL TO FO; CUT BY 0.1 FT 20° UNIT 2 WHICH XCUT FO | | | | | | | |
| / | P | 180.00 | 190.00 | 2c | 0.9 0.7 | FO | 50° | C. | |
| L | | | | | 0.5 | | | / 0 C. | D/ |
| R | | WEAK <15MM WHITE PHENOCRYSTS; | | | | | | | |
| / | N1 | 180.90 | 182.70 | 53 | | C/ | 70° | | |
| L | | | | | | C/ | 35° | | |
| R | | TOP CONTACT - LOOKS CHILLED AND XCUT FO, LOWER CONTACT PARALLEL | | | | | | | |
| R | | FOLIATION; WEAK PEGM DYKES REPLACING WALLROCK AND UNIT 5 - MEDIUM | | | | | | | |
| R | | GRAY, FINE MAFICS ALSO PRESENT | | | | | | | |
| / | N2 | 186.90 | 187.00 | X3 | | D/ | 50° | | |
| / | N3 | 187.10 | 189.80 | X5 | | D/ | 03° | | |
| R | | PARALLEL CORE AXIS ~10CM WIDE DYKE; MED-DARK GRAY FINE GRAINED | | | | | | | |
| | | WITH MODERATE FINE MAFICS | | | | | | | |
| / | P | 190.00 | 196.00 | 2c | | FO | 55° | C- | |
| L | | | | | | | | / E-C | D/ |
| R | | FAIR <20MM WHITE PHENOCRYSTS; | | | | | | | |
| / | N1 | 191.00 | 191.25 | X5 | | D/ | 20° | | |
| R | | SUB PARALLEL FO; MED-DARK GRAY FINE GRAINED WEAK-STRONG FINE | | | | | | | |
| | | MAFICS; | | | | | | | |
| / | | 195.30 | 195.40 | X3 | | D/ | 65° | | |

2 = Two, 1 = One, 0 = Zero, S = Alpha S, 7 = Seven, Ø = Alpha O, I or I = Alpha I, Z = Alpha Z

International Geosy~ems Corporation — Geolr~ System — M~N FORM — Geoform

**Identity Data:** FORMAT VERSION 6 8 0 2 | SPEC 0 2 | IDENTITY OF PROJECT: W1002 | ID OF DRILLHOLE: 138-91 | PAGE 7 OF 13

**WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

**Survey Data:** MT/FT: FT | TOTAL DEPTH/LENGTH: 426

**Upper Tier Geodata:** %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LT | HE | BI | MA | AZ | BO | CP | CC

**Lower Tier Geodata:** %RQD | L/F | SI | CL | EP | TE | PY | MT | MO

| Flag | From | To | Sample No. | Int | Typifying Mins / Comments | Struc | Dip | EP | MA | BO |
|---|---|---|---|---|---|---|---|---|---|---|
| /P | 1960 | 2060 | | 2c | | | | | | |
| L | | | | | | | | | | |
| /N1 | 1978 | 1990 | X | 1d | | | | | | |
| L | | | | | | | | | | |
| /N2 | 1990 | 1995 | X | 3 | | D/ | 45 | | | |
| L | | | | | | | | | | |
| /N3 | 1995 | 2060 | | 1bm | MA + BO RARE | | | | D. | D. |
| L | | | | | COULD BE 2b | | | | | |
| /N4 | 2042 | 20428 | x | 3 | | D/ | 55 | | | |
| L | | | | | | | | | | |
| /P | 2060 | 2160 | | 1bm | MA + BO RARE | | | | D. | D. |
| L | | | | | COULD BE 2b | | | | | |
| /N1 | 2087 | 2120 | X | 1cm | MA + BO RARE | | | | D. | D. |
| L | | | | | COULD BE 2b. | | | | | |
| /N2 | 2137 | 2147 | X | 1e | COULD BE 2c | | | F— | | |
| L | | | | | | | | | | |
| /N3 | 2147 | 2158 | x | 3 | | | | | | |
| L | | | | | | | | | | |
| /N4 | 2158 | 2160 | X | 1e | | | | | | |
| L | | | | | | | | | | |
| /P | 2160 | 2210 | | 2c | | | | | | |
| L | | | | | | | | | | |
| /N1 | 2160 | 2164 | x | 3 | | | | | | |
| L | | | | | | | | | | |
| /P | 221 | 226 | | 2c | | | | | | |
| L | | | | | | | | | | |
| /N1 | 2220 | 2225 | x | 2e | | | | | D. | |
| L | | | | | | | | | | |

* NOTE: THIS HOLE WAS LOGGED AFTER SPLITTING
LOGGED BY ASSAY INTERVAL

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Field | Value |
|---|---|
| Format version | 6 B 0 2 0 2 |
| Identity of project | W1002 |
| ID of drillhole | 138-91 |
| Page | 8 of 13 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| MT/FT | FT |

| Key | Flag | From | To | Sample No. / Int. | Texture | Comments | HE | MA | AZ | BO | CP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| / | N2 | 2225 | 2260 | X | 1 b |  |  |  |  |  |  |
| L |  |  |  |  |  |  |  |  |  |  |  |
| R |  |  |  |  |  | THE GNEISS IS QUITE ASSIMILATED AND COULD BE CLASSIFIED AS WALLROCK—INTRUSIVE EXCEPT FOR FOLIATION |  |  |  |  |  |
| / | P | 2260 | 2360 |  | 1 cm |  | C— | C— | C• | D• | D• |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | N1 | 2297 | 22995 | X | 1 d |  |  |  |  |  |  |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | N2 | 22995 | 2302 | X | 1 fm |  |  | D• |  | D• | D• |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | N3 | 2302 | 2312 | X | 1 em |  |  | D• |  | D• | D• |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | N4 | 2312 | 236 | X | 1 bm |  |  | D— |  | D• | D• |
| L |  |  |  |  |  |  |  |  |  |  |  |
| R |  | 226 | 236 |  |  | MA-BO-CP OCCUR IN OCCASSIONAL VERY THIN BANDS |  |  |  |  |  |
| / | P | 2360 | 2410 |  | 1 bm |  |  | D• |  | D( | D( |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | N1 | 2385 | 2398 | X | 1 em |  |  | D• |  |  |  |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | M2 | 2398 | 2407 | X | 1 d |  |  |  |  |  |  |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | P | 2410 | 2460 |  | 1 bm |  | D— | D• |  |  | D— |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | N1 | 2424 | 2444 |  | 1 cm? | INTERSTITIAL CALCITE 10%-20% |  D— | D• |  |  |  |
| L |  |  |  |  |  | GREASY FEEL, SOFTISH — P2 |  |  |  |  |  |
| / | P | 2460 | 2510 |  | 1 bm |  | D— | D• |  | D• / D• | D— |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | N1 | 2507 | 2510 | X | 3 |  |  |  |  |  |  |
| L |  |  |  |  |  |  |  |  |  |  |  |
| / | N2 | 246 | 2510 | = | 1 c |  | D• |  |  |  |  |
| L |  |  |  |  |  |  |  |  |  |  |  |

International Geosy⁻tems Corporation — Geol⁻ System — M⁻N FORM — Geoform

| Field | Value |
|---|---|
| FLAG | DEN / PRJ |
| FORMAT VERSION | 6 8 0 2 |
| SPEC | 0 2 |
| IDENTITY OF PROJECT | W1002 |
| ID of DRILLHOLE | 138-91 |
| PAGE | 9 |
| OF | 13 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Drilling by / Area | WILLIAMS CREEK |
| MT/FT | FT |

Upper Tier Geodata headings: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower Tier Geodata headings: %RQD, L/F, SI, CL, EP, TE, PY, MT, MO

| Line | Flag | FROM | TO | SAMPLE NO. / INT. | STRUCT / DIP | KF | LI | HE | MA | AZ | BO | CP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | / P | 251 | 261 | 1 6m | | | 3— | D— | D· | | | D— |
| 2 | L | | | | | | | | | | D· | |
| 3 | K FZ/ | 2573 | 2584 | 257.3-257.6 MEDIUM GRAINED BRECCIA | | P/ | | # | | | | |
| 4 | \ | \ | \ | 257.6-258.3 PERVASIVE KF AND EP FX - CALCITE F( ) | | | | F/ | | | | |
| 5 | / | / | / | 258.3-258.4 COARSE BRECCIA - HE MATRIX FILL | | | | | | | | |
| 7 | / N1 | 2588 | 2607 | X 1 em | | E( | | | D· | | | D· |
| 8 | L | | | | | | | | | | D— | |
| 9 | / N2 | 2569 | 2570 | X 3 | D/ 60 | | | | | | | |
| 10 | L | | | | | | | | | | | |
| 12 | / P | 2610 | 2700 | 1 6m | | | | D— | D· | | D· | D· |
| 13 | L | | | | | | | | | | | |
| 14 | / N1 | 26175 | 26178 | X 3 | | | | | | | | |
| 15 | L | | | | | | | | | | | |
| 16 | / N2 | 2619 | 2620 | X 3 | | | | | | | | |
| 17 | L | | | | | | | | | | | |
| 18 | / N3 | 2610 | 2700 | 1 1 cm | | | | D— | C— | C— | | |
| 19 | L | | | | | | | | | | | |
| 20 | / N4 | 2610 | 2700 | + 1 dm | | | | D— | C— | C— | D— | D· |
| 21 | L | | | | | | | | | | | |
| 22 | / N5 | 2700 | 2710 | X 1 em | | | | D· | C— | | D· | D· |
| 23 | L | | | | | | | | | | | |
| 25 | / P | 2710 | 2810 | 5 1 em | | | | D· | C· | | | |
| 26 | L | \ | \ | | | | | | | | | |
| 27 | / N1 | / | / | ) 1 fm | | | | D· | D· | | | C— |
| 28 | L | | | | | | | | | | D— | |
| 29 | / N2 | / | / | 2 1 bm | | | | | D· | | | D· |
| 30 | L | \ | \ | | | | | | | | D·( | |
| 31 | / N3 | / | / | 3 1 em | | | | D | D· | | | D· |
| 32 | L | \ | \ | | | | | | | | D ( | |
| 33 | / N4 | 2767 | 2789 | X 2 e | | | | | | | | |
| 34 | L | | | | | | | | | | | |

Ø = Alpha Z — I or i = Alpha I — Ø = Alpha O — 7 = Seven — 2 = Two — 1 = One — 0 = Zero — 5 = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity of Project | No. of Drillhole | Page | Of |
|---|---|---|---|
| W1002 | 138-91 | 10 | 13 |

**WESTERN COPPER HOLDINGS – THERMAL EXPLORATION** — **WILLIAMS CREEK**

Upper Tier Geodata: Unit of Recov. FT; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD; L/F; SI CL EP TE PY MT MO

MT/FT: FT

| Key | Flag | From | To | Sample No. | Int. | Remarks | Dip | Alteration | Alteration | Alteration | Alteration | Alteration |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 281.0 | 291.0 | | 1 cm | | | | D— | D• | | |
| L | | | | | | | | | | | | |
| / | N1 | 2834 | 2871 | | 1 bm | | | | D— | D— | | D• |
| L | | | | | | | | | | | | |
| / | N2 | 2843 | 2846 | X | 3 | | | | | | | |
| L | | | | | | | | | | | | |
| / | N3 | 2846 | 2848 | X | | MASSIVE HB. | 40 | | | D) | | |
| L | | | | | | | | | | | | |
| / | N4 | 2850 | 2875 | 3 | 1 gm | | | C— | D• | D— | | |
| L | | | | | | | | | | | | |
| / | M5 | 2850 | 2875 | 5 | 1 em | | | | | C— C— | | |
| L | | | | | | | | | | | | |
| / | N6 | 2850 | 2875 | 2 | 1 cm | MA–AZ–ANHYDRITE FRACTURE FILL | | | D• | C— C— | | D• |
| L | | | | | | | | | | | | |
| / | N7 | 2875 | 2910 | x | 1 dm | | | | D— | C— | D— | D• |
| L | | | | | | | | | | | | |
| / | P | 291 | 297 | | 1 dm | | | | D( | C— | | |
| L | | \ | | | | | | | | | | |
| / | N1 | / | 2935 | 3 | 1 fm | | | | D( | D• | | |
| L | | \ | \ | | | | | | | | | |
| / | N2 | / | / | 4 | 1 gm | | | | D— | C— | D• | D• |
| L | | \ | \ | | | | | | | | | |
| / | N3 | 2935 | 2938 | X | 1 dm | MASSIVE–WEATHERED HB | | | | D— | | |
| L | | | | | | | | | | | | |
| / | N4 | 2938 | 2970 | X | 1 em | HE–LI IN AREAS WITH MORE MAFICS | | C( | D— | C—C— | | |
| L | | | | | | | | | | | | |
| / | P | 2970 | 3060 | | 1 em | | | C— | | C• | | |
| L | | | | | | | | | | | | |
| / | N1 | 2990 | 2991 | X | 3 | FROM 298.0–302.5 F D/ | 5 | | | | | |
| L | | \ | ) | | | PEGMATITE OR ALTERATION | | | | | | |
| R | | / | / | | | RUNS ALONG CORE – A 0.2+FT. ZONE OF WHITE – MAINLY FELDSPARS | | | | | | |
| R | | \ | \ | | | IS ASSOCIATED WITH PEGMATITE AND COULD BE CONSIDERED | | | | | | |
| R | | / | / | | | PART OF PEGMATITE – THIS IS NOT AS BRITTLE AS KF RICH | | | | | | |
| R | | \ | \ | | | PART OF PEGMATITE | | | | | | |

International Geosy[illegible]ems Corporation — Geol[illegible] System — M[illegible]N FORM — Geoform

| Field | Value |
|---|---|
| KEY | D E N |
| FORMAT VERSION / SPEC | 6 8 0 2 0 2 |
| IDENTITY OF PROJECT | W1002 |
| ID or DRILLHOLE | 138-91 |
| PAGE / OF | 11 / 13 |
| P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| DRILLING BY | WILLIAMS CREEK |
| MT/FT | FT |

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF LI HE BI | MA AZ BO CP CC

Lower Tier Geodata: %RQD | L/F | SI CL EP | TE PY MT MO

| Key | Flag | From | To | Sample No. | Int. | Comments | LI/MU | HE/CL | MA/TE | AZ/PY | BO/MT | CP/MO | Line |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 3060 | 3160 | | 1em | | | D— | D· | | | | 1 |
| L | | | | | | | | | | | D· | | 2 |
| / | N1 | 3088 | 3100 | X | 3 | | | | | | | | 3 |
| L | | | | | | | | | | | | | 4 |
| / | N2 | 3100 | 3160 | X | 1bm | CLOSE TO 1a | C— | D— | C— | | | | 5 |
| L | | | | | | TRACE DISSEMINATED | | | | | | | 6 |
| | | | | | | SPECULARITE. | | | | | | | 7 |
| / | P | 3160 | 3210 | | 1em | | D· | | C— | C· | | D· | 8 |
| L | | | | | | | | | | | | | 9 |
| | | | | | | | | | | | | | 10 |
| / | P | 3211 | 3240 | | 1em | | | | F— | F— | | | 11 |
| L | | | | | | | | | | | | | 12 |
| / | FZ/ | 321 | 3231 | X | 1em? | FAULT ZONE - GOUGE, SHEARED, | F✱ | E( | F( | F( | | | 13 |
| L | | \ | \ | | | MA-AZ-TE FRACTURE FILL | | | F— | | | | 14 |
| | | / | / | | | WEATHERED | | | | | | | 15 |
| / | P | 324 | 3340 | | 1em | CP IN MORE MAFIC AREA | | | C— | | | D· | 16 |
| L | | | | | | | | | | | | | 17 |
| / | N1 | 3324 | 3340 | 5 | 1am | BI AND HB CLOSE IN CONTENT | | | D· | | | | 18 |
| L | | | | | | | | | | | | | 19 |
| / | N2 | 3324 | 3340 | 5 | 1bm | | | D· | C· | | | | 20 |
| L | | | | | | | | | | | | | 21 |
| | | | | | | | | | | | | | 22 |
| / | P | 334 | 345 | | 1bm | SOME SECTIONS 1a - TOO MINGLED | | D· | C· | | | | 23 |
| L | | | | | | TO DIVERENTIATE | | | | | | | 24 |
| / | N1 | 343 | 445 | X | 1cm | | | D( | C— | | | D· | 25 |
| L | | | | | | | | | | | | | 26 |
| | | | | | | | | | | | | | 27 |
| / | P | 345 | 349 | | 3 | | | | D· | | | | 28 |
| L | | | | | | | | | | | | | 29 |
| / | AP | 346 | 349 | | 3 | LEUCOCRATIC - WHITE FELDSPARS | | | C) | | | | 30 |
| L | | | | | | LARGE BI + HB | | | | | | | 31 |
| | | | | | | | | | | | | | 32 |
| / | P | 349 | 356 | | 1am | | C✱ | D— | C— | | | | 33 |
| L | | | | | | | | | | | | | 34 |
| / | N1 | 3508 | 356 | X | 1em | | C· | | C— | | | | 35 |
| L | | | | | | | | | | | | | 36 |

Z = Alpha Z · I or I = Alpha I · Ø = Alpha O · 7 = Seven · 2 = Two · 1 = One · 0 = Zero · S = Alpha S

International Geosys[illegible]ms Corporation — Geolo[illegible] System — MA[illegible]N FORM — Geoform

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT | ID OF DRILLHOLE | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 | 0 2 | W1002 | 138-91 | 12 | 13 |

PRJ: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

MT/FT: FT

Upper tier: Unit of Length F T; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC

Lower tier: %RQD; L/F; SI CL EP TE PY MT MO

| FLAG | FROM | TO | SAMPLE NO. | INT. | Comments | KF/SI | LI/CL | HE/EP | MA/TE | BO/MT | CP/MO |
|---|---|---|---|---|---|---|---|---|---|---|---|
| P | 3560 | 3660 | | 1em | MORE MAFICS THAN 3508 – 356 FT | | C( | D– | C– | | D· |
| L | \ | \ | | | | | | | | | |
| | / | / | | | OCCASSIONAL SHORT SECTIONS CLOSE TO 1c OR 1d | | | | | | |
| N1 | 3635 | 3660 | X | 1bm | OCCASSIONAL SHORT SECTIONS 1a | | | D– | C– | | D· |
| P | 366 | 3678 | | 1bm | OCCASSIONAL 1a | E– | | D( F– | CC | | D· |
| P | 3678 | 3730 | | 1em | | | C– | D· | C– | | |
| N1 | 3686 | 3716 | X | 2cm | LEUCOCRATIC | E( | | | C– | | |
| N2 | 3716 | 3730 | X | 1em | | | C– | D· | C– | | |
| P | 373 | 3770 | | 1dm | | | | D– | C– | D– | |
| N1 | 3753 | 3770 | X | 1em | MAFIC — HB | | | | C· | | |
| P | 377 | 3845 | | 1dm | MODERATE BI — OFTEN APPEARS TO BE ALTERATION OF HB | | | D( | C– | D· | |
| N1 | 377 | 3845 | 3 | 1em | | | | D· | C· | | |
| P | 3845 | 3865 | | 1em | | | | | C· | | |
| P | 3865 | 3910 | | 1dm | | | C– | D( | C( | | D· |
| N1 | 3906 | 3910 | X | 1em | | | | | C– | | |
| P | 3910 | 3965 | | 1dm | THESE UNITS ARE TOO MINGLED TO DIFFERENTIATE SEPARATE ZONES — BI OFTEN APPEARS TO ALTER HB | | | D( | C– | D– | D– |
| N1 | 3910 | 3965 | 4 | 1cm | | | | D( | C– | | D· |
| N1 | 3910 | 3914 | X | 1em | | | | | C– | | |

Z = Alpha Z; I or 1 = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata | GRAPHIC |
|---|---|---|---|---|

FORMAT VERSION: DEN 6802 02 | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 | ID of DRILLHOLE: TRAVERSE PRE-FIX / TYPE / NUMBER: 138-91 | PAGE 1 OF 3

WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

| FROM | TO | MT-FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IF DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG.= SOUTH | EASTING NEG.IF WEST | ELEVATION NEG.= SUB-SEA | GRID AZIMUTH | CO-ORD SYSTEM | SURVEYED BY | DRILLING TIME-HRS | DRILLING BY | STARTED YY MM DD | COMPLETED YY MM DD | GEOLOGGED BY YY MM DD | ASST BY | SIZE OF CORE OR HOLE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FT | | | | | | | | | | | | | | | | | |

| FROM | TO | RECOVERY %REC | ROCK TYPE | TEXTURES | GRAIN | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP To Right | Q2 | Q1 | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | FOLIATION | | S/F M/F | | | | KF | LI | HE BI / MA AZ / BO CP CC | |

| FROM | TO | RQD %RQD | ENV | RTQ | FOLIATION | FRACTURE COUNT | STRUCT 2 ID | AZM | DIP To Right | K-F | M-U | ALTERATION & MINERALIZATION DEFAULT SUITES | How Amt | How_1 | How_2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | L/F | | | | | SI | CL | EP / TE PY / MT MO | | | |

| FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|
| P | 396.5 | 401.0 | 2c | |
| M1 | 398.6 | 400.2 | x 1cm | D- C- |
| N2 | 400.2 | 401.0 | x 2cl | C- |
| P | 401.0 | 411.0 | 2c | |
| N1 | 401.0 | 401.6 | x 2cl | E- E- E- C- |
| KF/ | 404.6 | | | F/ 1.5 |
| KF/ | 409.0 | | | F/ 3.0 |
| P | 411.1 | 416 | 2c | P. FEW PORPHYRITIC FELDSPARS 1.4 / .4 E- |
| | | 41% | | |
| P | 416 | 426 | | .8 1.3 / .6 E- F- |
| KF/ | 416.7 | | | 47% F/ 2.5 |

END

Z = Alpha Z | Y or F = Alpha Y | Ø = Alpha O | X = Seven | 2 = Two | 1 = One | 0 = Zero | $ = Alpha S

International Geosystems Corporation — Geolo System — RECOVERY FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | FIXE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | 138 | -91 | HQ | | | | | | | | | | | | | | | | | | 01 | 01 |
| T | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN G.P. 000 = Collar | FROM Marks Loc. of Feature | TO | MT./FT. | TOTAL DEPTH/LENGTH | AZM FROM TRUE N | U-DOWN/AWAY | V-ANG NEG.= DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG.= SOUTH | EASTING NEG.= WEST | ELEVATION NEG.= SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | | |

Upper Tier Geodata — FLAG N A M / S C L — Unit of Recov. — Unit of Length — RECOVERY %REC — ROCK — TYPIFYING MIN.1 TM1 — TM2 — GAL/MAT GM1 — TEXTURES TX1 — TX2 — GRAIN — FRACTURE COUNT — STRUCT. ID — STRIKE AZM — DIP — ALTERATION & MINERALIZATION DEFAULT SUITES — SUMMARY

Lower Tier Geodata — FLAG N A M / S C L — M or F — Unit of ROD — ROD — Env. — RTQ — Colour — TM3 — QM1 — TK1 — TX4 — STRUCT. ID — STRIKE AZM — DIP — ALTERATION & MINERALIZATION DEFAULT SUITES — SUMMARY

GRAPHIC

A — Any Zone Flag or Flag = COMposite MAX or MIN or 001 – 999
H — If Flag = COM, then Col 21-58 = 55 No. groups
P — Flag = Rkh, where nn is alty no. 01-99 as behand

| From | To | RECOVERY % |
|---|---|---|
| 20 | 30 | 33 |
| 30 | 40 | 24 |
| 40 | 50 | 42 |
| 50 | 60 | 29 |
| 60 | 70 | 43 |
| 70 | 80 | 33 |
| 80 | 90 | 61 |
| 90 | 100 | 69 |
| 100 | 110 | 64 |
| 110 | 120 | 76 |
| 120 | 130 | 56 |
| 130 | 140 | 56 |
| 140 | 150 | 35 |
| 150 | 160 | 58 |
| 160 | 170 | 49 |
| 170 | 180 | 62 |
| 180 | 190 | 37 |
| 411 | 420 | 29 |

LOG ONWARDS SPLIT TO 9" CORE

1 = One  2 = Two  7 = Seven  Ø = Alpha O  I or L = Alpha I  Z = Alpha Z  $ = Alpha S  0 = Zero

International Geosy ms Corporation — Geolc System — RECOV IY FORM — Geoform

| Field | Value |
|---|---|
| FLAG | DEN |
| Format Version | 6B02 |
| Spec | 02 |
| Identity of Project | W1002 |
| ID of Drillhole | 1-38-91 |
| PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION |
| Drilling by | WILLIAMS CREEK |
| MT/FT | FT |
| Page | 01 of 02 |
| Recovery | %REC |

| FROM | TO | RECOVERY |
|---|---|---|
| 130 | 160 | 95 |
| 160 | 260 | 97 |
| 260 | 360 | 100 |
| 360 | 460 | 100 |
| 460 | 560 | 100 |
| 560 | 660 | 100 |
| 660 | 760 | 100 |
| 760 | 860 | 100 |
| 860 | 960 | 100 |
| 960 | 1060 | 100 |
| 1060 | 1160 | 100 |
| 1160 | 1260 | 100 |
| 1260 | 1360 | 100 |
| 1360 | 1460 | 100 |
| 1460 | 1560 | 100 |
| 1560 | 1660 | 100 |
| 1660 | 1760 | 100 |
| 1760 | 1860 | 99 |
| 1860 | 1960 | 100 |
| 1960 | 2060 | 100 |
| 2060 | 2160 | 100 |
| 2160 | 2260 | 100 |
| 2260 | 2360 | 100 |
| 2360 | 2460 | 100 |
| 2460 | 2560 | 99 |
| 2560 | 2660 | 100 |
| 2660 | 2760 | 100 |
| 2760 | 2860 | 100 |
| 2860 | 2960 | 100 |
| 2960 | 3060 | 100 |
| 3060 | 3160 | 100 |
| 3160 | 3260 | 98 |
| 3260 | 3360 | 100 |
| 3360 | 3460 | 98 |
| 3460 | 3560 | 100 |
| 3560 | 3660 | 100 |
| 3660 | 3760 | 100 |
| 3760 | 3860 | 99 |

International Geosy ms Corporation — Geol System — **RECOV Y FORM** — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE TRAVERSE PRE-FIX / TYPE / NUMBER | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I (Identity Data) | DEN | 6 8 0 2 | 0 2 | W1002 | 1 - 38 - 91 | 02 | 02 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | WILLIAMS CREEK | | |

| S (Survey Data) | TURN'G PT 000 = Collar | FROM | TO | MT/FT |
|---|---|---|---|---|
| S | | | | FT |

Upper Tier Geodata — Unit of Length: F 7 . 2 — Unit of Recov.: %REC

| FROM | TO | RECOVERY |
|---|---|---|
| 3860 | 3960 | 98 |
| 3960 | 4060 | 100 |
| 4060 | 4160 | 100 |
| 4160 | 4260 | 100 |

0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha I Z = Alpha Z S = Alpha S

International Geosys. .ns Corporation  Geolo. ystem  SAMI E FORM  Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | | -38 | -101 | | | | | | | | CLYMPIC | 19 | 08 | 21 | 08 | 22 | | | GRID | 337 | C | 1 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| KEY | TURN-C PT. 000=Collar | FROM Metric Loc. of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG=DOWN | HASH TOTAL = FROM + TO + AZM + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 | Q | | FT | 1426. | 247. | -50. | | | | |

| KEY | FLAG | FROM Metric Loc. of Feature | TO | RECOVERY | ROCK | TYPIFYING MINS | QAL/MAT | TEXTURES | GRAIN | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | NAM SCL | Unit of Length FT = 2 | Unit of Recov. | | | TM1 TM2 | QM1 | TX1 TX2 | Fe Cr C-MB | | | | | | | CV CB MG XX PT | |
| L | NAM SCL | M or F | Unit of RQD | RQD | AGE Form n | ENV RTQ | Colour TM1 QM1 | TX1 TX2 | Fe Cr C-MB | | | | | | | CL EP HE PR MO SL | |

GRAPHIC

| A | FROM | TO | SAMPLE NO. | INT. | Au From | Au To | Au | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|
| K | H/W | | | | | | | |
| S | 4260 | | | 24 | -49 | | | |
| K | F/W | | | | | | | |
| A | SAM | | | | | | | |
| | 1960 | 2060 | T155582 | 100 | 0.13 | 0.10 | 0.004 | 0.02 |
| | 2060 | 2160 | T155583 | 100 | 0.31 | 0.24 | 0.006 | 0.04 |
| | 2160 | 2210 | T155584 | 50 | 0.01 | <0.01 | <0.002 | <0.01 |
| | 2210 | 2260 | T155585 | 150 | 0.20 | 0.16 | 0.008 | 0.02 |
| | 2260 | 2360 | T155586 | 100 | 0.36 | 0.31 | 0.004 | 0.03 |
| | 2360 | 2410 | T155587 | 50 | 0.40 | 0.30 | 0.004 | 0.06 |
| | 2410 | 2460 | T155588 | 150 | 0.54 | 0.48 | 0.008 | 0.07 |
| | 2460 | 2510 | T155589 | 50 | 0.32 | 0.27 | 0.002 | 0.05 |
| | 2510 | 2610 | T155590 | 100 | 0.60 | 0.49 | 0.006 | 0.09 |
| | 2610 | 2710 | T155591 | 100 | 0.42 | 0.36 | 0.002 | 0.04 |
| | 2710 | 2810 | T155592 | 100 | 0.34 | 0.30 | 0.004 | 0.03 |
| | 2810 | 2910 | T155593 | 100 | 0.53 | 0.48 | 0.006 | 0.04 |
| | 2910 | 2970 | T155594 | 60 | 1.31 | 1.29 | 0.024 | 0.14 |
| | 2970 | 3060 | T155595 | 90 | 0.11 | 0.09 | <0.002 | 0.01 |
| | 3060 | 3160 | T155596 | 100 | 0.22 | 0.19 | <0.002 | 0.02 |
| | 3160 | 3210 | T155597 | 50 | 0.28 | 0.25 | <0.002 | 0.03 |
| | 3210 | 3240 | T155598 | 30 | 1.28 | 1.24 | 0.012 | 0.08 |
| | 3240 | 3340 | T155599 | 100 | 0.22 | 0.18 | 0.002 | 0.02 |
| | 3340 | 3450 | T155600 | 110 | 0.32 | 0.29 | 0.004 | 0.05 |
| | 3450 | 3490 | T155601 | 40 | 0.69 | 0.62 | 0.008 | 0.06 |
| | 3490 | 3560 | T155602 | 70 | 0.59 | 0.51 | 0.012 | 0.06 |
| | 3560 | 3660 | T155603 | 100 | 0.85 | 0.78 | 0.020 | 0.11 |
| | 3660 | 3678 | T155604 | 18 | 1.10 | 1.05 | 0.026 | 0.15 |
| | 3678 | 3730 | T155605 | 52 | 0.20 | 0.19 | 0.004 | 0.02 |
| | 3730 | 3770 | T155606 | 40 | 0.93 | 0.76 | 0.016 | 0.15 |
| | 3770 | 3845 | T155607 | 75 | 0.70 | 0.64 | 0.012 | 0.08 |
| | 3845 | 3865 | T155608 | 20 | 0.56 | 0.52 | 0.010 | 0.06 |
| | 3865 | 3910 | T155609 | 45 | 1.20 | 1.12 | 0.016 | 0.11 |
| | 3910 | 3965 | T155610 | 55 | 1.57 | 1.42 | 0.028 | 0.29 |
| | 3965 | 4010 | T155611 | 45 | 0.56 | 0.51 | 0.014 | 0.10 |
| | 4010 | 4110 | T155612 | 100 | 0.04 | 0.03 | 0.002 | 0.01 |

Z = Alpha Z
Y or I = Alpha I
Ø = Alpha O
3 = Seven
2 = Two
1 = One
0 = Zero
S = Alpha S

International Geosystems Corporation — Geologic System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY MM DD | BY | ASST BY | COMPLETED MM DD | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 1 | — | 39-81 | HQ | | MH | | | OLYMPIC | 91 08 22 | 0 8 23 | | | GRID | 337.1° | 1 | 5 |
| I | PRJ | WESTERN COPPER HOLDINGS — THERMAL EXPLORATION | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | |

| | TURN C PT 000=Collar | FROM Marks Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG=DOWN | HASH TOTAL FROM + TO + AZM + V-ANG + NORTH + EAST NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=SUBSEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Survey Data S | | 0. | | FT | 253.0 | 247. | -50. | | 1800.4 | 66.2 | 2870.8 |

Upper Tier Geodata — FLAG NAM / SCL — Unit of Recov. — Unit of Length — F 1 2

| RECOVERY | T MOD | Min | ROCK TYPE | TYPIFYING MINS TM1 | TM2 | GAL MAT GM1 | TEXTURES TX1 | TX2 | GRAIN H | GR | C | MP | FRACTURE COUNT | 1 | 2 | Int Typ | Tr | STRUCT ID | STRIKE AZM | DIP To Right | Qz | Bi | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | SUMMARY CP | GL | YY | Fe | Al | Mi |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| %REC | | | ROCK TYPE | | | | FOLIATION | | | | | | S/F | M/F | | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | |

Lower Tier Geodata — FLAG NAM / SCL — Unit of RQD — %RQD

| RQD | Accuracy | ENV | RTQ | CC Colour | ENV1 | QM1 | TX1 | TX2 | Su | Rn | Str | O/C | H | M | L | S | Int Typ | Tr | STRUCT ID | AZM | DIP To Right | K F | MU | CL | EP | HE | Hw Amt | PP | MO | SL | Hw Amt | How1 | How2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| %RQD | | | | | | | | | | | | | LIF | | | | | | | | SI | CL | EP | | | TE | PY | MT | MO | | | |

| | FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | 0. | 14. | CASING — NO CORE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /P | 14 | 20 | | 2b | CL, EP REPLACE HB | | | | | | | | | | | | | | | | | H+ | H· | | | | | | | | | | |
| L | | | 24% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /AP | 14 | 19 | | | | | | | | | | | | | | | | | | | P4 | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | E) | | | | | | | | | | |
| /P | 20 | 30 | | 2b | | | | | | | | | | 3.5 | | | | | | | | | E+ | | | | | | | | | | |
| L | | | 52% | | | | | | | | | | | .2 | | | | | | | | | H+ | H· | | | | | | | | | |
| / | 209 | 210 | | GOUGE | | | | | | | | | | | | | | F/ | | 28 | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /AP | 236 | 259 | | | | | | | | | | | | | | | | | | | | | H= | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /AP | 259 | 264 | | | | | | | | | | | | | | | | | | | H1 | | 21 | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /N1 | 271 | 300 | | X | 3 | | | | | | | | | | | | | | | | H) | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| / | 30 | 40 | | 2b | | | | | | | | | | .8 .6 .3 | | | | | | | | | F) | | | | | | | | | | |
| L | | | 22% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /N1 | 30 | 308 | | X | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RC/ | 308 | | | | | | | | | | | | | | | | | C/ | | 32 | | | | | | | | | | | | | |
| /N2 | 379 | 400 | | X | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /P | 40 | 50 | | 2b | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | | | 70% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /N1 | 40 | 415 | | X | 3 | | | | | | | | | | | | | | | | P2 | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /N2 | 453 | 487 | | X | 1cm | | | | | | | | | | | | | | | | | | | | | DC | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RC/ | 453 | | | | | | | | | | | | | | | | | C/ | | 50 | | | | | | | | | | | | | |
| /N3 | 487 | 500 | | X | 1a | | | | | | | | | | | | | | | | E+ | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | D— | | | | | |
| / | 50 | 60 | | 1am | | | | | | | | | | | | | | FQ/ | | 40 | | | | | | D· | | | | | | | |
| L | | | 49% | | | | | | | | | | | .5 | | | | | | | | | | | | | | | | | | | |
| /N1 | 510 | 525 | | X | 2b | | | | | | | | | | | | | | | | E+ | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /N2 | 552 | 570 | | X | 1cm | | | | | | | | | | | | | | | | | | | | | D· | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| /N3 | 570 | 600 | | X | 1½m | | | | | | | | | | | | | FQ/ | | 55 | | | | | | D· | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRAPHIC

Z = Alpha Z; Y = Alpha Y; Ø = Alpha O; 1 or I = Alpha I; 2 = Two; 7 = Seven; 1 = One; 0 = Zero; S = Alpha S

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

I (KEY) FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE-TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY MM DD | BY | ASST BY | COMPLETED MM DD | DRILLING BY | STARTED YY MM DD | COMPLETED MM DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF

Identity Data — I — DEN | 6 B 0 2 0 2 | W1002 | 1-39-91 | PROJECT: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | DRILLING BY: WILLIAMS CREEK | PAGE 2 OF 5

Survey Data — S — TURN G P P (000 = Collar) | FROM Marks Lot of Feature | TO | MT/FT: FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IS DOWN | HASH TOTAL = P + T + TD + AZM + V-ANG + N + S + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IS SOUTH | EASTING NEG IS WEST | ELEVATION NEG IS SUB-SEA | SUMMARY

Upper Tier Geodata — U — FLAG N A M / S C L | Unit of Recov. | Unit of Length F T 1 2 | RECOVERY | Method | Mtx | ROCK TYPE | TYPIFYING MINS TM1 TM2 | QAL MAT QM1 | TEXTURES TX1 TX2 | GRAIN Fr Cr uC MF | FRACTURE COUNT 1 2 | Int Typ | E | STRUCT ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION (DEFAULT SUITES) CY CS MG XX PY | CP GL YY | FA M | MI 1

Lower Tier Geodata — L — FLAG N A M / S C L | M or F | Unit of R Q D | R Q D | AGE From m | ENV | RTQ | C C Colour | TM1 | QM1 | TX1 TX2 | Sx Bn Sn O C | IS Int S SI | Cal Typ | TD | STRUC2 ID | AZM | DIP To Right | KF | MU | CL EP HE | Hw Amt PR | MO SL | Hw Amt | How1 | How2

GRAPHIC — A — Any Zone Flag or Flag = COMposite MAX or MIN or 001 = 999 | Flag = Int. Any no. 21-46 = SS No. and Flag = Int. Any no. 01-99 as Comp. | RECOVERY | % x Sample Sampling | SAMPLE NO. | INT: | SS # From To | SS # From To | SS # From To | HASH TOTAL

| | FROM | TO | SAMPLE NO. | INT: | |
|---|---|---|---|---|---|
| N4 | 579 | 580 | | X 5 | D/ 55 |
| N5 | 578 | 579 | | X GOUGE | SH/ 55 |
| P | 60 | 70 | | 1 cm | D. |
| N1 | 60 | 603 | 40% | X 1 F | |
| N2 | 648 | 700 | | X 1 d | |
| P | 70 | 80 | | 1 dm | D. |
| N1 | 757 | 800 | 46% | X 2e | ,3 / |
| N2 | 783 | 784 | | X 3 | D/ 15 |
| R | / | / | SLICKENSIDES ON LOW ANGLE FRACTURES. | | |
| P | 80 | 90 | | 2 cm MA ASSOCIATED WITH HB | .8 .1 D. EX D- |
| N1 | 853 | 854 | 73% | X 3 | D/ 20 |
| P | 90 | 100 | | 2 cm BO,CP,MA ASSOCIATED WITH HB CLOTS | 1 .1 O. D. D. |
| N1 | 923 | 946 | 71% | X 1 dm | Fo/ 50 D. |
| AP | 946 | 965 | | X 2e | ZZ ZZZ |
| N2 | 965 | 989 | | X 1 cm | HC CX D. |
| N3 | 989 | 1000 | | X 1 cm | CX D. |
| N3 | | | | | |
| P | 100 | 110 | | 1 cm | V.5 D- D. |
| N1 | 1022 | 1110 | 68% | X 1 cm | DX C) D. DC D- |
| N2 | 1039 | 1043 | | X 1 cm | D- D. |
| N3 | 1067 | 1073 | | X 1 cm | E. |

1 2 3 4 5 6 7 — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

5 = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha I Z = Alpha Z

International Geosy' 'ms Corporation — Geolc System — MA'N FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| Identity Data | |
|---|---|
| FLAG | D E N |
| FORMAT VERSION / SPEC | 6 B 0 2 0 2 |
| IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | W1002 |
| ID of DRILLHOLE/TRAVERSE | 1-39-91 |
| PAGE | 3 OF 5 |
| P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION |
| | WILLIAMS CREEK |
| MT/FT | FT |

Upper Tier Geodata: %REC. — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI GL EP TE PY MT MO

| Row | Key | Flag | From | To | %Rec / %RQD | Sample No. | Int. | Fracture | Struct | Dip | KF / SI | LI / GL | HE / EP | HE | MA / TE | AZ / PY | BO / MT | CP / MO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | / | AN1 | 1073 | 1100 | | X | /cm | | | | | D+ | | | J) | | Q) | D* |
| 2 | L | | | | | | | | | | | | | | | | D* | |
| 3 | K | SN/ | 1060 | 10605 | | | | | SH/ | 38 | | P4 | | | | | | |
| 4 | / | P | 110 | 120 | | | /bm | 1 | | | | F) | F) | | J) | | Q( | D( |
| 5 | L | | | | 70% | | | | | | | | | | | | D– | |
| 6 | / | N1 | 110 | 1107 | | X | /cm | | | | | D+ | | | J) | | | D( |
| 7 | L | | | | | | | | | | | | | | | | D– | |
| 8 | / | N2 | 115 | 1183 | | X | /cm | | | | | D* | F( | | J) | | | D( |
| 9 | | | | | | | | | | | | | | | | D– | | |
| 10 | / | N3 | 1183 | 1200 | | X | /e | | | | | | | | | | | |
| 11 | L | | | | | | | | | | | | | | | | | |
| 12 | / | P | 120 | 130 | | | /e | .2 1 | | | | | | | | | | |
| 13 | L | | | | 51% | | | .2 | | | | | | | | | | |
| 14 | / | N1 | 1205 | 1220 | | X | /c | | | | | | F) | | | | | |
| 15 | L | | | | | | | | | | | | | | | | DC | |
| 16 | / | N2 | 1220 | 1282 | | X | /cm | | | | | | | | D– | | | |
| 17 | L | | | | | | | | | | | | | | | | D· | |
| 18 | / | AN1 | 1282 | 1300 | | 8 | /cm | | Fo/ | 55 | | D( | F) | | D( | | | |
| 19 | L | | | | | | | | | | | | | | | | | |
| 20 | / | AN2 | 1282 | 1300 | | 2 | /e | | | | | | | | ZZ | | | |
| 21 | L | | | | | | | | | | | | | | | | | |
| 22 | / | P | 130 | 140 | | | /em | 2+ 2+ | | | | | | | C· | | | |
| 23 | L | | | | 18% | | | | | | | | | | | | | |
| 24 | / | N1 | 1300 | 1355 | | 1 | /cm | | | | | P= | | | P= | | | |
| 25 | L | | | | | | | | | | | | | | | | | |
| 26 | / | N2 | 1355 | 1375 | | 9 | /cm | | | | | | F) | | E+ | | | |
| 27 | L | | | | | | | | | | | H= | | | | | DC | |
| 28 | / | N3 | 1355 | 1375 | | 1 | /am | | | | | | | | E+ | | | |
| 29 | L | | | | | | | | | | | | | | | | D( | |
| 30 | / | N4 | 1375 | 1387 | | X | /fm | | | | | C) | | | P) | | | D· |
| 31 | L | | | | | | | | | | | | | | | | D* | |
| 32 | K | SH/ | 1380 | 1383 | | | GOUGE | | SH/ | 60 | | | | | | | | |
| 33 | / | N5 | 1383 | 1384 | | X | /e | | | | H1 | | F+ | | | | | |
| 34 | L | | | | | | | | | | | | | | | | D* | |
| 35 | / | N6 | 1387 | 1390 | | X | /cm | | | | | C) | | [redacted] | C+ | | | |
| 36 | L | | | | | | | | | | | | | | | | D* | |
| 37 | R | | 1380 | 1390 | CORE VERY BROKEN-UP | | | | | | | | | | | | | |
| 38 | / | N7 | 1390 | 1400 | | | /am | | | | | | | | CC | | | |

Z = Alpha Z — I or I = Alpha I — Ø = Alpha O — 7 = Seven — 2 = Two — 1 = One — 0 = Zero — S = Alpha S

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| Identity Data | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 | 2 | W1002 | 1-39-91 | 4 | 5 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | WILLIAMS CREEK | | |

Survey Data: TURN C.PT 000=Collar | FROM | TO | MT/FT: FT | TOTAL DEPTH/LENGTH | AZM | V-ANG | NORTHING | EASTING | ELEVATION

Upper Tier Geodata: Unit of Length F | %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | TE | PY | MT | MO

A: FROM | TO | SAMPLE NO. | INT.

| Line | Flag | From | To | Recovery / Sample No. | Int. | Remarks | Fracture | Struct. | Dip | Alteration | Mineralization |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | /P | 140 | 150 | | 1am | | .5 1.5 | | | | C) |
| 2 | L | | | 32% | | | .2 | | | | |
| 3 | KFR/ | 1410 | | | | SK | | FR/ | 15 | | |
| 4 | /N1 | 1458 | 1469 | X | 1c | | | | | | |
| 5 | L | | | | | | | | | | |
| 6 | /N2 | 1469 | 1488 | X | 1em | | | | | | C• |
| 7 | L | | | | | | | | | | |
| 8 | /AP | 1488 | 1500 | 7 | 1am | | | | | | C— |
| 9 | L | | | | | | | | | | |
| 10 | /N3 | 1494 | 1500 | 3 | 3m | TRUE WIDTH ABOUT | | D/ | 25 | | C— |
| 11 | L | | | | | 0.2 FT. | | | | | D. |
| 12 | /P | 150 | 160 | | 1am | | 1.5 1 | FO/ | 60 | | CC |
| 13 | L | | | 25% | | | .2 | | | | |
| 14 | /N1 | 1510 | 1514 | X | 3m | | | D/ | 25 | | CC |
| 15 | L | | | | | | | | | | |
| 16 | /N2 | 1543 | 1574 | X | 2em | | | | | | C• |
| 17 | L | | | | | | | | | F) | |
| 18 | /P | 160 | 170 | | 1bm | | | | | | |
| 19 | L | | | 51% | | | 0.8 1 | | | D— | CC |
| 20 | /N1 | 1619 | 1667 | 2 | 1cm | | | FO/ | 50 | C— | CC |
| 21 | L | | | | | | | | | | |
| 22 | /AN1 | 1681 | 1687 | X | 1cm | | | | | C— | CC |
| 23 | L | | | | | | | | | | |
| 24 | /P | 170 | 180 | | 1fm | | 1 .8 | | | D— F— | C* |
| 25 | L | | | 42% | | | .1 | | | | |
| 26 | /N1 | 1700 | 1716 | X | 1bm | | | | | D— | CC |
| 27 | L | | | | | | | | | | |
| 28 | /N2 | 1700 | 1800 | 1 | 1am | | | | | D— F— | CC |
| 29 | L | | | | | | | | | | |
| 30 | /N3 | 1745 | 1746 | X | 3m | | | D/ | 10 | | CC |
| 31 | L | | | | | | | | | | |
| 32 | /P | 180 | 190 | | 1fm | | 1 2 | | | D* F— | C) |
| 33 | L | | | 33% | | | .1 | | | | C) D. |
| 34 | /N1 | 1800 | 1837 | 2 | 1em | | | | | D* F— | C) |
| 35 | L | | | | | | | | | | |
| 36 | KF/W | 1837 | | | | | | C/ | 50 | | |
| 37 | /N2 | 1837 | 1842 | X | 2el | | | | | | J* |
| 38 | L | | | | | | | | | | |

International Geosystems Corporation — Geologic System — MAIN FORM — Geoform

Enter keys in col. 1 to activate entries

Identity Data: FLAG DEN 6802 | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 | ID of DRILLHOLE/TRAVERSE: PRE-FIX | TYPE | NUMBER: 1-39-91 | SIZE OF CORE DIAMETER | GEOLOGGED YY MM DD BY | ASST BY | COMPLETED MM DD | DRILLING BY: WILLIAMS CREEK | STARTED YY MM DD | COMPLETED MM DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE 5 OF 5

Survey Data: PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION

Survey Data: TURN @ PT 000 = Collar | FROM (Metres x 10 of Feature) | TO | MT/FT: FT | TOTAL DEPTH-LENGTH | AZM (CLOCKWISE FROM TRUE N) | V-ANG (NEG IS DOWN) | HASH TOTAL = F + T + TD + AZM + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IF SOUTH | EASTING NEG IF WEST | ELEVATION NEG IF SUB-SEA

Upper Tier Geodata: FLAG NAM SCL | Unit of Recov: FT | Unit of Length: FT | RECOVERY: %REC | ROCK TYPE | FOLIATION | S/F M/F | STRUCT I.D. | STRIKE AZM | DIP (Tenths) QZ SI | ALTERATION & MINERALIZATION DEFAULT SUITES: CY CB MG XX PY CP GL YY | SUMMARY: FA AI MZ I

Lower Tier Geodata: FLAG NAM SCL | Unit of R.Q.D: %RQD | RQD | AGE (Form 1) | ENV | RTD | L/F | STRUCT I.D. | AZM | DIP (Tenths) KF MU | CL EP | HW Amt | HOW1 | HOW2

GRAPHIC | A: Any Zone Flag or Flag = COMposite, MAX or MIN or 001 – 999; Flag = 0 if 21 not = 5 No. 6; Flag = Any no. 01-99 as per | RECOVERY 55 = Sample Zero No. | MASH TOTAL

| FROM | TO | SAMPLE NO. | INT. | ROCK TYPE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N3 | 1842 | 1886 | | X | 2b | | | | | | EX | E— | |
| N4 | 1855 | 1856 | | X | 3 | | | | D/ | 25 | | | |
| N5 | 1886 | 1896 | | X | 3 | | | | D/ | 25 | | | |
| N6 | 1896 | 1900 | | X | 2b | | | | | | E* | | |
| P | 190 | 200 | | | 2b | | | 1.2 | | | E) | | |
| | | | 44% | | | | | | | | | | |
| N1 | 1944 | 1955 | | X | 3 | | | | | | | | |
| P | 200 | 210 | | | 2b | | | 1.5 | | | E. | | |
| | | | 56% | | | | | | | | | | |
| N1 | 2098 | 2099 | | X | 3 | | | | D/ | 70 | | | |
| P | 210 | 220 | | | 2b | | | 1.5 | | | | F— | |
| | | | 55% | | | | | | | | | | |
| N1 | 2179 | 220 | | X | 2d | GRADUAL CHANGE TO 2d | | | | | | | |
| P | 220 | 230 | | | 2d | | | .5.5 | | | | E— | |
| | | | 66% | | | | | | | | | | |
| P | 230 | 240 | | | 2d | | | .5.5 | | | | E• | |
| | | | 48% | | | | | | | | | | |
| N1 | 2385 | 2387 | | X | 3 | | | | D/ | 45 | | | |
| P | 240 | 250 | | | 2d | | | .2.2 | | | | | |
| | | | 72% | | | | | | | | | | |
| P | 250 | 253 | | | 2d | | | | | | | E• | |
| | | | 64% | | | | | | | | | | |
| N1 | 2516 | 2521 | | X | 3 | | | | D/ | 40 | | | |
| N2 | 2524 | 2528 | | X | 3 | | | | D/ | 60 | | | |

Z = Alpha Z | Y or I = Alpha I | Ø = Alpha O | 7 = Seven | 2 = Two | 1 = One | 0 = Zero | S = Alpha S

International Geosystems Corporation — Geolo System — RECOVERY FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| I/T | KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT (OR SUB-PROJECT) (UNIQUE) | ID or DRILL HOLE - TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Identity Data | I | D E N | 6 B 0 2 0 2 | | W1002 | 139 | - | 91 | HQ | | | | | | | | | | | | | | | | | | 01 | 01 |
| | T | P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| S | FURN G FT OD=Collar | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH: LENGTH | AZM DEGREES FROM TRUE N | V-ANG NEG=DOWN | HASH TOTAL = FT + TO + AZM + V-ANG + MFT + TO NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=SUBSEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | S | | | FT | | | | | | | |

| | FLAG | | | RECOVERY | T MOD | MAX | ROCK | TYPE/SYNG ANHS TM= | TM2 | QAL/MAT QM= | TEXTURES TX= | TX2 | GRAIN Fr | Cr | COMP | FRACTURE COUNT | 1 | 2 | STRUCT. I.D. | STRIKE AZM | DIP To Right | DIP 2 | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CR | MG | XX | PY | CP | GL | YY | SUMMARY Fx | Al | Mx | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Tree Geodata | N A M | | | %REC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S C L | Unit of Length — I T = 1 | Unit of Recov. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | FLAG | | M or F | ROD | AGE From | ENV | RTG | STRUCT Colour | TM1 | QM2 | TX1 | TX2 | Sa | Ro | Sr | FRACTURE COUNT | h | iv | R | Sl | Fo | Fo | STRUCT I.D. | AZM | DIP To Horiz | R F | MO | CL | EP | HE | Inv Amt | PR | MO | SL | Inv Amt | How 1 | How 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower Tree Geodata | N A M | | | ROD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S C L | Unit of ROD | | %ROD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRAPHIC

| A | 1 2 3 4 | 5 6 7 8 9 10 | 11 12 13 14 15 16 | 17 18 19 20 21 22 23 | 24 25 26 27 28 29 | 30 31 32 33 34 | 35 36 37 38 39 40 41 42 | 43 44 45 46 | 47 48 | 49 50 51 52 53 | 54 55 56 57 58 | 59 60 | 61 62 63 64 | 65 66 | 67 68 69 70 | 71 72 | 73 74 75 76 | 77 78 | 79 80 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | Any Zone Flag or Prg = COMposite, MAX or MIN or 001 — 999 | | RECOVERY | From | To | From | To | From | To | From | To | From | To | From | To | HASH TOTAL | |
| H | | if Flag is COM, then Col 21-68 = 5 S No. groups | | | | | | | | | | | | | | | | | |
| E | | Flag = Rnn, where nn is any no. 01-99 as defined | | | | | | | | | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| L | 20 | 30 | 28 | | |
| L | 30 | 40 | 42 | | |
| | | | 141.5' SPLIT TO 189.6' | | |
| L | 190 | 200 | 34 | | |
| L | 200 | 210 | 26 | | |
| L | 210 | 220 | 25 | | |
| L | 220 | 230 | 41 | | |
| L | 230 | 240 | 26 | | |
| L | 240 | 250 | 42 | | |

1 2 3 4 5 6 7

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

5 = Alpha S — 0 = Zero — 1 = One — 2 = Two — 7 = Seven — Ø = Alpha O — I = Alpha I — Z = Alpha Z

International Geosy[illegible]ns Corporation — Geol[illegible] System — **RECOV[illegible]Y FORM** — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | PAGE | OF |
|---|---|---|---|---|---|---|---|---|
| DEN | 6802 | 02 | W1002 | 1 | 39 | 91 | 01 | 01 |

| PRJ | |
|---|---|
| WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | WILLIAMS CREEK |

Survey Data: MT/FT: FT

Upper Tier Geodata: RECOVERY: %REC

| FROM | TO | RECOVERY |
|---|---|---|
| 140 | 160 | 73 |
| 160 | 260 | 93 |
| 260 | 360 | 99 |
| 360 | 460 | 100 |
| 460 | 560 | 100 |
| 560 | 660 | 96 |
| 660 | 760 | 100 |
| 760 | 860 | 98 |
| 860 | 960 | 98 |
| 960 | 1060 | 97 |
| 1060 | 1160 | 99 |
| 1160 | 1260 | 100 |
| 1260 | 1360 | 100 |
| 1360 | 1460 | 100 |
| 1460 | 1560 | 100 |
| 1560 | 1660 | 100 |
| 1660 | 1760 | 100 |
| 1760 | 1860 | 99 |
| 1860 | 1960 | 100 |
| 1960 | 2060 | 100 |
| 2060 | 2160 | 100 |
| 2160 | 2260 | 100 |
| 2260 | 2360 | 100 |
| 2360 | 2460 | 100 |
| 2460 | 2530 | 100 |

Z = Alpha Z · I or i = Alpha I · Ø = Alpha O · 7 = Seven · 2 = Two · 1 = One · 0 = Zero · S = Alpha S

International Geosys...ns Corporation — Geolo..ystem — SAMI ≡ FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILLHOLE, TRAVERSE: PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 11- | 39 | -101 | HQ | | | | | | | | CLYMPIC | 09 | 22 | 08 | 23 | | | GRID | 337 | 1 | 61 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN CP. 000=Collar | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM (CLOCKWISE FROM TRUE N) | V-ANG NEG=DOWN | HASH TOTAL = F + T + ID + AZM + V-ANG + N + E + EL (NOT INCLUDING ANY BLANK FIELDS) | NORTHING NEG=SOUTH | EASTING NEG=WEST | ELEVATION NEG=SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 | 0. | . | FT | 2513. | 247. | -50. | | | | |

| | FLAG | FROM | TO | RECOVERY | ROCK | TYPIFYING MINS TM1 | TM2 | GAL/MAT GM1 | TEXTURES TX1 | TX2 | GRAIN | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT SUITS CY | CB | MG | XX | PY | CP | GL | YY | SUMMARY EX1 | AV | MC1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Tier Geodata | NAM SCL | Unit of Recov | Unit of Length | | | | | | | | | | | | | | | | | | | | | | | |
| Lower Tier Geodata | NAM SCL | Mat'l Unit of RQD | RQD | ACE Form | ENV | RTQ | (S) Cutter | TM1 | GM1 | | | | | | | | | | | | | | | | | |

| | FROM | TO | SAMPLE NO. | INT | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K | H/W | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | 1500 | | | | 247. | -48. | | | | | | | | | | | | | | | | | | | | |
| K | F/W | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | SAM | 415 | 453 | T1 | 56300 | 36 | | | 0.04 | 0.03 | <0.002 | | | | 0.01 | | | | | | | | | | | |
| | | 453 | 487 | T1 | 56400 | 34 | | | 0.05 | 0.04 | <0.002 | | | | <0.01 | | | | | | | | | | | |
| | | 487 | 525 | T1 | 56411 | 38 | | | 0.06 | 0.05 | <0.002 | | | | 0.01 | | | | | | | | | | | |
| | | 525 | 603 | T1 | 56422 | 78 | | | 0.19 | 0.15 | <0.002 | | | | <0.01 | | | | | | | | | | | |
| | | 603 | 700 | T1 | 56433 | 97 | | | 0.11 | 0.09 | <0.002 | | | | 0.01 | | | | | | | | | | | |
| | | 700 | 757 | T1 | 56444 | 57 | | | 0.15 | 0.14 | <0.002 | | | | 0.02 | | | | | | | | | | | |
| | | 757 | 860 | T1 | 56455 | 103 | | | 0.02 | 0.02 | <0.002 | | | | <0.01 | | | | | | | | | | | |
| | | 860 | 900 | T1 | 56466 | 40 | | | 0.08 | 0.07 | <0.002 | | | | <0.01 | | | | | | | | | | | |
| | | 900 | 923 | T1 | 56477 | 23 | | | 0.120 | 0.14 | <0.002 | | | | 0.03 | | | | | | | | | | | |
| | | 923 | 965 | T1 | 56488 | 42 | | | 0.19 | 0.17 | <0.002 | | | | 0.02 | | | | | | | | | | | |
| | | 965 | 989 | T1 | 56499 | 24 | | | 1.33 | 1.11 | 0.026 | | | | 0.24 | | | | | | | | | | | |
| | | 989 | 1022 | T1 | 56500 | 33 | | | 0.15 | 0.14 | 0.002 | | | | 0.01 | | | | | | | | | | | |
| | | 1022 | 1073 | T1 | 56511 | 51 | | | 0.47 | 0.43 | 0.006 | | | | 0.05 | | | | | | | | | | | |
| | | 1073 | 1107 | T1 | 56522 | 34 | | | 0.93 | 0.76 | 0.006 | | | | 0.08 | | | | | | | | | | | |
| | | 1107 | 1150 | T1 | 56533 | 43 | | | 0.30 | 0.27 | 0.002 | | | | 0.03 | | | | | | | | | | | |
| | | 1150 | 1183 | T1 | 56544 | 33 | | | 1.08 | 0.93 | 0.016 | | | | 0.18 | | | | | | | | | | | |
| | | 1183 | 1282 | T1 | 56555 | 99 | | | 0.10 | 0.08 | <0.002 | | | | <0.01 | | | | | | | | | | | |
| | | 1282 | 1355 | T1 | 56566 | 73 | | | 0.23 | 0.20 | 0.004 | | | | 0.01 | | | | | | | | | | | |
| | | 1355 | 1375 | T1 | 56577 | 20 | | | 0.51 | 0.45 | 0.012 | | | | 0.07 | | | | | | | | | | | |
| | | 1375 | 1390 | T1 | 56588 | 15 | | | 0.53 | 0.48 | 0.012 | | | | 0.04 | | | | | | | | | | | |
| | | 1390 | 1460 | T1 | 56599 | 70 | | | 0.46 | 0.41 | 0.022 | | | | 0.07 | | | | | | | | | | | |
| | | 1460 | 1543 | T1 | 56610 | 174 | | | 0.133 | 0.131 | 0.006 | | | | 0.04 | | | | | | | | | | | |
| | | 1543 | 1574 | T1 | 56611 | 31 | | | 0.30 | 0.28 | 0.004 | | | | 0.05 | | | | | | | | | | | |
| | | 1574 | 1681 | T1 | 56622 | 107 | | | 0.54 | 0.50 | 0.010 | | | | 0.06 | | | | | | | | | | | |
| | | 1681 | 1716 | T1 | 56633 | 35 | | | 1.03 | 0.97 | 0.022 | | | | 0.12 | | | | | | | | | | | |
| | | 1716 | 1800 | T1 | 56644 | 84 | | | 0.85 | 0.81 | 0.018 | | | | 0.10 | | | | | | | | | | | |
| | | 1800 | 1837 | T1 | 56655 | 37 | | | 1.45 | 1.33 | 0.024 | | | | 0.18 | | | | | | | | | | | |
| | | 1837 | 1860 | T1 | 56666 | 23 | | | 0.14 | 0.13 | 0.002 | | | | <0.01 | | | | | | | | | | | |
| | | 1860 | 1896 | T1 | 56677 | 36 | | | 0.02 | 0.02 | <0.002 | | | | <0.01 | | | | | | | | | | | |

Z = Alpha Z | Y = Alpha Y | Ø = Alpha O | 1 or = Alpha I | 7 = Seven | 2 = Two | 1 = One | 0 = Zero | S = Alpha S

International Geosy~tems Corporation — Geolr~ System — M~N FORM — Geoform

| Identity Data | |
|---|---|
| Flag | DEN |
| Format Version | 6 8 0 2 |
| Spec | 0 2 |
| Identity of Project or Sub-Project (Unique) | W1002 |
| Drillhole/Traverse | 143-91 |
| Geologged By | MH |
| Drilling By | OLYMPIC |
| Started YY MM DD | 91 08 25 |
| Completed MM DD | 08 26 |
| Co-Ord System | GRID |
| Grid Azimuth | 337. |
| Page | 1 |
| Of | 9 |
| PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION |
| | WILLIAMS CREEK |

| Survey Data | |
|---|---|
| MT/FT | FT |
| Total Depth/Length | 455. |
| AZM | 247. |
| V-ANG | -50. |
| Northing | 399.5 |
| Easting | 399.3 |
| Elevation | 2858.9 |

Upper Tier Geodata: %REC · ROCK TYPE · FOLIATION · S/F M/F · KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD · L/F · SI CL EP TE PY MT MO

| Key | Flag | From | To | %REC / Sample No. | Rock Type | Remarks | Fracture Count | Struct | Dip | Alteration & Mineralization |
|---|---|---|---|---|---|---|---|---|---|---|
| R | | 0 | 11 | CASING – NO CORE | | | | | | |
| / | P | 11 | 20 | | 2c | | .5 1.2 | | | |
| L | | | | 30% | | | | | | |
| / | N1 | 193 | 194 | x | 3 | | | D/ | 45 | |
| L | | | | | | | | | | |
| / | P | 20 | 30 | | 2c | | .3 1.5 | | | |
| L | | | | 52% | | | .1 | | | |
| / | N1 | 222 | 225 | x | 3 | | | D/ | 50 | |
| / | N2 | 265 | 268 | x | 3 | | | D/ | 70 | |
| L | | | | | | | | | | |
| / | N3 | 268 | 300 | x | 2b | GRADATIONAL CHANGE FROM 2c | | | | |
| / | N4 | 272 | 275 | x | 5 | | | C/ | 50 | |
| L | | | | | | | | | | |
| / | P | 30 | 40 | | 2b | | .3 1 | | | |
| L | | | | 71% | | | .2 | | | |
| / | N1 | 305 | 307 | x | 3 | | | D/ | 70 | |
| L | | | | | | | | | | |
| / | P | 40 | 50 | | 2bl | ONE SPECK MA AT 49.5 FT. | .3 1.5 | | | F– D· |
| L | | | | 55% | | | .2 | | | |
| / | P | 50 | 60 | | 2b | | .5 1 | | | |
| L | | | | 57% | | | .3 | | | |
| / | N1 | 527 | 529 | x | 3 | | | | | |
| L | | | | | | | | | | |
| / | N2 | 529 | 579 | x | 2c | MAYBE A DYKE – WEAKLY FOLIATED | | | | |
| L | | | | | | | | | | |
| / | N3 | 579 | 594 | x | 2b | | | SH/ | 55 | |
| L | | | | | | | | | | |
| R | | | | SHEAR ZONE – FELDSPAR AUGEN | | | | | | |
| / | P | 60 | 70 | | 2b | | .2 1 | | | |
| L | | | | 73% | | | | | | |
| / | AP | 665 | 677 | x | 2bm | | | | | D– D· |
| L | | | | | | | | | | |
| / | P | 70 | 80 | | 2b | | .3 .8 | | | |
| L | | | | 75% | | | | | | F* |

International Geosys‹ms Corporation — Geolc~ System — M^N FORM — Geoform

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE (PRE-FIX / TYPE / NUMBER) | PAGE | OF |
|---|---|---|---|---|---|---|
| D E N | 6 B 0 2 | 0 2 | W1002 | J–43–91 | 2 | 9 |
| P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | WILLIAMS CREEK | | |

Survey Data: MT/FT: FT

Upper Tier Geodata: Unit of Length → FT • 2; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD; L/F; SI CL EP TE PY MT MO

| Line | Key | Flag | FROM | TO | SAMPLE NO. / RECOVERY | INT. | Description | Fracture | Struct | Dip | Other | Alteration | Col. 67–72 | Col. 73+ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | / | N1 | 765 | 784 | | 65 | FAULTING ALONG | | | | | | | |
| 2 | L | | | | | | CORE ±20° TO C.A. | | | | | F) | | |
| 3 | / | AP | 784 | 798 | | X2b | AUGEN | | FO/ | 45 | | | | |
| 4 | L | | | | | | | | | | | | | |
| 5 | K | F/ | 7105 | 7115 | | | | | F/ | 60 | | F) M7 | | |
| 6 | K | F/ | 727 | 7275 | | | | | F/ | 50 | | P3 | | |
| 7 | K | F/ | 760 | | | | SK | | F/ | 35 | | | | |
| 8 | K | F/ | 765 | | | | SK | | F/ | 70 | | | | |
| 9 | / | P | 80 | 90 | | 2bm | | .2.7 | | | | | | |
| 10 | L | | | | 87% | | | | | | | | | |
| 11 | K | F/ | 800 | 864 | | | FAULT-ZONE – STOCKWORK OF HE FILLED FRACTURES | | | | | | | |
| 12 | K | F/ | 820 | 823 | | | BRECCIA | | F/ | 60 | | X1 | | |
| 13 | / | AP | 828 | 857 | | | | | | | P1 | | | |
| 14 | L | | | | | | | | | | | | | |
| 15 | K | F/ | 857 | | | | SK | | F/ | 50 | | | | |
| 16 | / | AP | 828 | 857 | | | BLEACHED | | | | | | | |
| 17 | L | | | | | | | | | | | | | |
| 18 | K | F/ | 832 | 838 | | | BRECCIA | | F/ | 30 | | X2 | | |
| 19 | R | | 816 | | 2CM PATCH | | | | | | | | D– | Q–D. |
| 20 | R | | 871 | | 4CM PATCH | | | | | | | | D– | QC |
| 21 | / | P | 90 | 100 | | 2b | EP ALTERATION | .3.7 | | | | | | |
| 22 | L | | | | 76% | | OF HB | .1 | | | | H– | | |
| 23 | / | N1 | 904 | 913 | | X5 | | | | | | | | |
| 24 | L | | | | | | | | | | | | | |
| 25 | K | F/ | 980 | | | | SK | | F/ | 20 | | | | |
| 26 | / | P | 100 | 110 | | 2b | | .2.8 | | | | | | |
| 27 | L | | | | 79% | | | | | | | | | |
| 28 | / | N1 | 1029 | 1041 | | X2e | | | | | | | | |
| 29 | L | | | | | | | | | | | | | |
| 30 | / | N2 | 1041 | 1062 | | X3 | | | | | | | | |
| 31 | L | | | | | | | | | | | F– | | |
| 32 | / | N3 | 1062 | 1088 | | X2e | | | | | | | | |
| 33 | L | | | | | | | | | | | | | |
| 34 | / | P | 110 | 120 | | 2b | | .2.5 | | | E+ | #) | | |
| 35 | L | | | | 77% | | | .1 | | | | | | |
| 36 | K | F/ | | | | GOUGE | | | F/ | 45 | | | | |
| 37 | / | N1 | 1192 | 1196 | | X3 | | | D/ | 65 | | | | |
| 38 | L | | | | | | | | | | | | | |

Z = Alpha Z; I or I = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identifiers Data

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | YY | GEOLOGGED MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED AM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 | D 2 | W1002 | 1 | 43 | 91 | | | | | | | | | | | | | | | | | | | 3 | 9 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

Survey Data

| TURN C PT 000 = Collar | FROM Marks Loc. of Feature | TO | MT: FT | TOTAL DEPTH/LENGTH | AZM | DECLINATION FROM TRUE N | V-ANG | NEG = DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | FT | | | | | | | | | |

Upper Tier Geodata

| FLAG | Unit of Recov. | RECOVERY | TMAG | MAG | ROCK TYPE | TYPIFYING MINS TM1 | TM2 | GAL/MAT GM1 | TEXTURES TX1 | TX2 | GRAIN Fi | CF | C | MP | FRACTURE COUNT | STRUCT. ID | STRIKE AZM | DIP | DIP DIRECTION | Q2 | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XZ | PY | E | CP | GL | YY | SUMMARY FA | AU | B | MET | I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM | | %REC | | | ROCK TYPE | | | | FOLIATION | | | S/F | M/F | | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | | | |
| SCL | Unit of Length FT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Lower Tier Geodata

| FLAG | M or F | RQD | AGE Form n | ENV | RTO | Colour | TM1 | GM1 | TX1 | TX2 | Sx | Rn | Sv | Oc | Ic | In | Ex | St | TD | STRUCT ID | AZM | DIP | DIP DIRECTION | Q1 | MU | CL | EP | HE | Hw Amt | PR | MO | SL | Hw Amt | How | Flow |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM | | %RQD | | | | | | | | | | | | | L/F | | | | | | | | | | SI | CL | EP | | TE | PY | MT | MO | | | |
| SCL | Unit of RQD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRAPHIC

AHF — Any Zone Flag or Rec = Composite MAX or MIN of DPT = 999 — Flag = FROM. any no. 01-98 as of DPT — TO — RECOVERY — SAMPLE NO. — INT. — SS = Sample Series No. — A1 — A2 — A3 — A4 — A5 — A6 — A7 — A8 — HASH TOTAL

| | | FROM. | TO | RECOVERY | SAMPLE NO. | INT. | SS # | A1 From | A1 To | SS # | A2 From | A2 To | SS # | A3 From | A3 To | SS # | A4 From | A4 To | SS # | A5 From | A5 To | SS # | A6 From | A6 To | SS # | A7 From | A7 To | SS # | A8 From | A8 To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P | 1203 | 1305 | | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 76% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NI | 1209 | 1210 | | X 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P | 1305 | 1405 | | 2b1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 45% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | F | 1388 | 1389 | | GOUGE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | NI | 1340 | 1400 | | X 2c | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | MAFICS IN SIZE | DECREASE TO MEDIUM | | | | | | | FRAINED | | | | | | | | | | | | | | | |
| | P | 1405 | 1505 | | 2c | | | | | | | | | | | .3 1.5 | | | | | | | | | | | | | | | |
| | | | | 68% | | | | | | | | | | | | .1 | | | | | | | | | | | | | | | |
| | NI | 1455 | 1456 | | X 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | N2 | 1457 | 1505 | | X 2d | | | PORPHYRITIC FELDSPARS | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | UNDER 10% BUT AVG 2CM TO 2.5CM | | | | | | | | | | | | | | | | | | | | | | | | |
| | P | 1505 | 1605 | | 2d | | | | | | | | | | | .3 1.3 | | | | | | | | | | | | | | | |
| | | | | 63% | | | | | | | | | | | | .2 | | | | | | | | | | | | | | | |
| | NI | 1501 | 1502 | | X 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | N2 | 1543 | 1544 | | X 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | N3 | 1548 | 1575 | | X 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | C | 1548 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| K | C | 1575 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | N4 | 1575 | 1600 | | X 2c | | | DK-HB | | | | | | | | | | | | | | | | | | | | | | | |
| | P | 1605 | 1705 | | 2c | | | DK-HB | | | | | | | | 1 .3 | | | | | | | | | | | | | | | |
| | | | | 70% | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P | 1705 | 1805 | | 2a | | | | | | | | | | | .5 1 | | | | | | | | | | | | | | | |
| | | | | 56% | | | | | | | | | | | | .1 | | | | | | | | | | | | | | | |
| K | SH | 1730 | 1730.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P | 1805 | 1905 | | 2d | | | | | | | | | | | .5 1 | | | | | | | | | | | | | | | |
| | | | | 62% | | | | | | | | | | | | .1 | | | | | | | | | | | | | | | |
| | NI | 1820 | 1821 | | X 3 | | | CUT BY TWO FAULTS | | | | | | | | | | | | | | | | | | | | | | | |
| K | E | 1820 | | | | | | SLIGHTLY CURVED | | | | | | | | | | | | | | | | | | | | | | | |
| K | F | 1822 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1 2 3 4 5 6 7 — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

$ = Alpha S  0 = Zero  1 = One  2 = Two  7 = Seven  Ø = Alpha O  I or i = Alpha I  Z = Alpha Z

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| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE | PAGE | OF |
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| D E N | 6 8 0 2 | 0 2 | W1002 | 1-43-91 | 4 | 9 |

P R J: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: Unit of Length: FT; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD; L/F; SI CL EP TE PY MT MO

| KEY | FLAG | FROM | TO | RECOVERY / RQD / SAMPLE NO. | INT. | ROCK TYPE | DESCRIPTION | FRACTURE | STRUCT | DIP | KF / SI | HE / EP | BO / MT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | N2 | 1844 | 1845 | | X | 3 | | | D/ | 40 | | | |
| L | | | | | | | | | | | | | |
| / | N3 | 1845 | 190 | | X | 2e | | | | | E+ | | |
| L | | | | | | | | | | | | | |
| / | P | 190 | 200 | | | 2e | | .3 1 | | | E+ | | |
| L | | | | 76% | | | | | | | | | |
| K | SH/ | 1976 | 1980 | | | | WEAK FOLIATION | | SH/ | 60 | | | |
| / | P | 200 | 210 | | | 2e | | 2 1.4 | FO/ | 40 | | | |
| L | | | | 40% | | | | .1 | | | | | |
| / | N1 | 2086 | 210 | | X | 2c | DK-HB | | | | | | |
| L | | | | | | | A FEW PORPHYRITIC FELDSPARS | | | | | | |
| K | F/ | 2080 | | | | | SK | | F/ | 45 | | | |
| K | F/ | 2086 | | | | | SK | | F/ | 20 | | | |
| / | FP | 20845 | 2086 | | X | 2e | | | | | P3 | | |
| L | | | | | | | | | | | | | D2 |
| / | P | 210 | 220 | | | 2c | | .4 1.8 | | | | E+ | |
| L | | | | 66% | | | | .1 | | | | | |
| / | N1 | 2167 | 2173 | | X | 3 | | | FO/ | 53 | | | |
| L | | | | | | | | | | | | | |
| K | F/ | 2175 | | | | | 1.5MM WIDE | | | | | FX | |
| R | | \ | | 2 FRACTURES | | | HE FILLED - 45° AND 60° TO C.A. | | | | | | |
| / | P | 220 | 230 | | | 2c | | 1 .4 | | | | E+ | |
| L | | | | 78% | | | | .1 | | | | | |
| K | F/ | 2227 | 2245 | | | | 0.1FT THICK FAULT | | F/ | 20 | | #4 | |
| | | \ | / | | | | FILLED WITH HE. | | | | | | |
| / | N1 | 2287 | 230 | | X | 2e | | | | | | 21 | |
| L | | | | | | | | | | | | | |
| K | F/ | 2287 | | | | | | | F/ | 20 | | | |
| K | F/ | 2300 | | | | | | | F/ | 28 | | | |
| / | P | 230 | 240 | | | 2e | | .3 1.8 | | | | E+ | |
| L | | | | | | | | .1 | | | | | |
| / | N1 | 2311 | 2319 | | X | 2e | | | | | F2 | | |
| L | | | | | | | | | | | | F+ | |
| / | N2 | 2342 | 2400 | | | 2d | | | | | | | |
| L | | | | | | | | | | | | | |
| / | N3 | 2360 | 2366 | | X | 3 | | | D/ | 48 | | | |
| L | | | | | | | | | | | | | |

Z = Alpha Z; I or 1 = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata | GRAPHIC

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE / TRAVERSE: PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
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| I | D E N | 6 B 0 2 0 2 | | W1002 | | | 1-43-91 | | | | | | | | | | | | | | | | | | | 5 | 9 |
| I | P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | | | | | | | | | | WILLIAMS CREEK | | |

| TURN C.P.T. COD=Collar | FROM Marker Log or Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CLOCKWISE FROM TRUE N | V-ANG | NEG IF DOWN | NASH TOTAL FT + T = 0 + AZM + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG IF SOUTH | EASTING | NEG IF WEST | ELEVATION | NEG IF SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | FT | | | | | | | | | | | | |

| FLAG N A M / S C L | Unit of Length F / M | Unit of Recov | RECOVERY T400 Max | ROCK TYPE | TYPIFYING MINS TM1 | TM2 | DALMAT QM1 | TEXTURES TX1 | TX2 | GRAIN | FRACTURE COUNT | STRUC1 ID | STRIKE AZM | DIP To Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | XG | XX | PY | CP | GL | YY | SUMMARY Ex. Ag. Bz. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | %REC | ROCK TYPE | | | | FOLIATION | | | S/F M/F | | | | KF | LT | HE | BI | | MA | AZ | BO | CP | CC | | |

| FLAG N A M / S C L | M or F | Unit of ROD | RQD | AGE Form n | ENV | RTG | TM1 | QM1 | TX1 | TX2 | FRACTURE COUNT | STRUC2 ID | AZM | DIP To Right | KF | MU | CL | EP | HS | Hw Asmt | PR | MO | SL | Hw Asmt | How1 | How2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | %ROD | | | | | | | | L/F | | | | SI | CL | EP | | | TE | PY | MT | MO | | | |

GRAPHIC — A / H / F

| FROM | TO | SAMPLE NO. | INT. | MASH TOTAL |
|---|---|---|---|---|
| 240 | 250 | | 2d | |
| | | 78% | | .2 1,2 .3 |
| 2423 | 2452 | | x 2e | 2) FC |
| 2448 | | | | E/ 35 F) |
| 250 | 260 | | 2d | .2 2,3 .2 E= 2. |
| | | 53% | | |
| 2569 | 2586 | | x 2d | P3 |
| 2572 | 25725 | | x 3 | D/ 25 F+ |
| 260 | 270 | | 2d | .3 3,8 .1 E* |
| | | 42% | | |
| 2626 | 270 | | x 2e | FO/ 40 |
| 2650 | 26504 | | x 3 | D/ 30 |

Any Zone Max or Max + C Composite, MAX or MIN or 001 – 999
If Max or Min is 21-64 = 5.5 hrs. or 65-99 as grab
Any no. 01-99 as grab

RECOVERY SS = Sample Specimen

1 = One, 2 = Two, 3 = Seven, 0 = Zero, $ = Alpha $, Ø = Alpha O, 2 = Alpha Z, Z = Alpha Z

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | DRILLHOLE/TRAVERSE PREFIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED YY | MM | DD | DRILLING TIME (HRS) | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 1 | - | 43 | -sy | | | | MH | | | | | | | | | | | | | | | 6 | 9 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | | | | | | | | | | | WILLIAMS CREEK | | |

| | TURN C PT 000 = Collar | FROM Metric Log of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG DOWN | MAG TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | |

| | FLAG | RECOVERY Tenths Min | ROCK TYPE | TYPIFYING MINS YYMM | TYPIFYING MINS TYPE | QUALIFIER QUALIFIER | TEXTURES TX1 | TX2 | GRAIN GT | GC | COMP | FRACTURE COUNT 1 | 2 | STRUCT FD | STRIKE AZIM | DIP Tenths | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CX | CB | MG | XX | PY | CP | GL | YY | SUMMARY Fa | Ac | Mz |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Tier Geodata | NAM SCL | %REC | ROCK TYPE | | | | FOLIATION | | | | | S/F | M/F | | | | KF | LT | HE | BI | | MA | AZ | BO | CP | CC | | | |
| Lower Tier Geodata | NAM SCL | %RQD | | | | | | | | | | L/F | | | | | SI | CL | EP | | | TE | PY | MT | MO | | | | |

| | FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 2701 | 2801 | | 2d | | | | .3 | 1.5 | | | | | | | | | | | | | | | | | | | | |
| | | | 32% | | | | | .1 | | | | | | | | | | | | | | | | D- | | | | | |
| NI | 2710 | 2707 | | X 2c | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 2801 | 2901 | | 2d | | | | .5 | 2 | | | | | | E) | | | | | | | | | | | | | | |
| | | | 26% | | | | | .1 | | | | | | | | | | | | | | | | | | | | | |
| AP | 2829 | 2849 | | 2d | FLTD | | | | | | | FO | | 50 | P E F) | | | | | | | | | | | | | | |
| SIN | 2872 | 2875 | | 2d | S-FLTD | | | | | | | | | 60 | | | | | F* | | | | | | | | | | |
| P | 2901 | 3010 | | 2d | | | | .5 | 3 | | | | | | | | | | | | | | | | | | | | |
| | | | 23% | | | | | .2 | | | | | | | | | | | | | | | | | | | | | |
| NI | 2926 | 2933 | | X 3d | | | | | | | | D/ | | 55 | P= | | | | | | C- | | | D2 | | | | | |
| N/W | 2933 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N2 | 2933 | 3000 | | X 1fm | STRONGLY WEATHERED SULPHIDES | | | | | | | | | | | | 21 | | | | 3) | D- | | | | | | | |
| N3 | 2946 | 2951 | | X 3d | | | | | | | | | | | D= | | | | | | F+ | | | | | | | | |
| P | 3009 | 3110 | | 1fm | | | | .8 | 2 | | | FO/ | | 58 | | | 21 | | | | F+ F/ | D- | | | | | | | |
| | | | 62% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NI | 2983 | 29865 | | X 1e m | C/ IRREGULAR | | | | | | | C/ | | 60 | | | D* | | | | F) | | | | | | | | |
| AP | 29865 | 2992 | | X 1fm | | | | | | | | S/ | 40 | 50 | | | 22 | | | | F- | | | | | | | | |
| N2 | 2995 | 2998 | | X 1e m | C/ IRREGULAR | | | | | | | C/ | | 60 | | | D* | | | | E) | | | | | | | | |
| N3 | 2999 | 3002 | | X 1e m | | | | | | | | C/ | | 45 | | | D* | | | | F) | | | | | | | | |

1 = One 2 = Two 3 = Three 4 = Four 5 = Five 6 = Six 7 = Seven 8 = Eight 9 = Nine 0 = Zero
Z = Alpha Z I or I = Alpha I Ø = Alpha O S = Alpha S

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data

| F KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID OF DRILLHOLE / TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
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| I | DEN | 6 B 0 2 0 2 | | W1002 | | | | | | | | | | | | | | | | | | | | | | 7 | 9 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

Survey Data

| | TURN @ PT 200 = Collar | FROM Main Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG = DOWN | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|
| S | S | | | FT | | | | | | |

Upper Tier Geodata

| | FLAG | | | RECOVERY | ROCK TYPE | TYPIFYING MINS | DALMAT | TEXTURES | GRAIN | FRACTURE | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULT SUITES | | | SUMMARY | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | NAM | | Unit of Recov. | | | | | | | | | | | CY | CB | SIG | Fe Ab | MZ 1 |
| | SEC | | Unit of Length FT | %REC | | | | FOLIATION | | S/F M/F | | | | HE | BI | | MA AZ | BO CP CC |

Lower Tier Geodata

| | FLAG | | | RQD | AGE | ENV | ATG | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SEC | | Unit of RQD | %RQD | | | | | | | | | | L/F | | | | SI | CL | EP | | | TE PY | MT MO | | | |

GRAPHIC

| | FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | 310 | 320 | | 1 cm | | | | | | .2 | 1 | | FO/ | 40 | | 2= | | | F+F* | | | | | | | |
| L | | | 7½% | | | | | | | .2 | | | | | | | | | | | | | | | | | |
| AP | 3123 | 3125 | X | 1 cm | 20% VOIDS | | | | | | | | | | | | JI | | | | X5 | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N1 | 3125 | 3175 | X | 1 cm | | | | | | | | | | | | 1= | | | C) | | | | M5 | 12 | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N2 | 3161 | 3167 | X | 3 m | | | | | | | | | D/ | 40 | | | | | F=C( | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 320 | 330 | | 1 cm | | | | | | .2.7 | | | | | | 2= | | | C( | | | | | | | |
| L | | | 92% | | | | | | | | | | | | | | | | | | | | | | | | |
| AP | 3231 | 330 | X | 1 | | | | | | | | | | | | 11 | FE | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | 3231 | 330 | STRONGLY WEATHERED - HEMATITIC IRON OXIDE FRACTURE FILLINGS AND | | | | | | | | | | | | | | | | | | | | | | | | |
| R | | | BOXWORK IN FRACTURES - UP TO 1CM WIDE | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 330 | 340 | | 1 | | | | | | .1 | 1 | | | | | 21 | F) | | | | | | | | | | |
| L | | | 82% | | | | | | | | | | | | | | | | | | | | | | | | |
| F/ | 3331 | 33315 | | | STRONGLY SHEARED | | | | | | | | F/ | 30 | | | | | | | | | | | | | |
| N1 | 3357 | 340 | X | 1 cm | | | | | | | | | | | | 2= | | | 2) | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 340 | 350 | | 1 cm | | | | | | .4 .3 | 1 | | | | | P) | | | 24 | | | | | | | |
| L | | | 69% | | | | | | | .1 | | | | | | | | | | | | | | | | | |
| AP | 3444 | 350 | X | 1 cm | | | | | | | | | | | | P1 | | | C. | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 350 | 360 | | 1 cm | | | | | | .3 | 1 | | | | | P1 | | | C. | | | | | | | |
| L | | | 74% | | | | | | | .1 | | | | | | | | | | | | | | | | | |
| N1 | 3506 | 35065 | X | 2 | | | | | | | | | D/ | 30 | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AP | 3504 | 3511 | X | 1 c | | | | | | | | | | | | | F= | | | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AP | 3528 | 35710 | X | 1 cm | | | | | | | | | | | | 3 | | | C)K | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | D- | | | | | | |
| N2 | 35710 | 35718 | X | 1 cm | | | | | | | | | FO/ | 50 | | | | | D. | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AP | 35718 | 3600 | X | 1 cm | | | | | | | | | | | | E+ | | | F) | | | | | | | | |
| L | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Alpha Z = 2 | Alpha I = 1 | Alpha O = 0 | Alpha Seven = 7 | Alpha Two = 2 | Alpha One = 1 | Alpha Zero = 0 | Alpha S = 5

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| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT | DRILLHOLE/TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 | 2 | W1002 | 1-43-9 | 8 | 9 |

**WESTERN COPPER HOLDINGS - THERMAL EXPLORATION** — **WILLIAMS CREEK**

Survey Data: FROM / TO: FT

Upper Tier Geodata: %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP TE PY MT MO

| Line | KEY | FLAG | FROM | TO | RECOVERY / SAMPLE NO. | INT. / DESCRIPTION | FRACTURE | STRUCT | DIP | KF / LI (SI / CL) | HE / BI (EP) | MA / AZ (TE) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | / | P | 360 | 370 | | 1cm | .5 1 | | | E( | | F) |
| 2 | L | P | | | 46% | | .1 | | | | | |
| 3 | / | N1 | 3618 | 370 | X | 2 cm DK-NB | | | | E+F( | | F* |
| 4 | L | N1 | | | | | | | | | | |
| 5 | / | P | 370 | 380 | | 2cm DK-HB | .3 1.5 | | | E= | | F* |
| 6 | L | P | | | 70% | | | | | | F— | |
| 7 | / | N1 | 3722 | 37235 | X | BRX- BRECCIA OF (1a) | | BX.. | 40 | | | |
| 8 | L | N1 | | | | FRAGMENTS UP TO 2mm. | | | | | P/ | |
| 9 | / | N2 | 37235 | 37238 | X | | | C/ | 40 | | P4 | |
| 10 | L | N2 | | | | | | | | | P+ | |
| 11 | / | P | 380 | 390 | | 2cm DK-NB | .3 2.5 | | | E+C— | | C( |
| 12 | L | P | | | 53% | | .2 | | | <. | F( | |
| 13 | K | E/ | 3801 | | | SK ON FRACTURE | | F/ | 45 | | F) | C* |
| 14 | / | P | 390 | 400 | | 2cm DK-NB | .2 1.9 | | | E+C) | | C. |
| 15 | L | P | | | 63% | | .2 | | | | F* | |
| 16 | / | N1 | 3980 | 400 | X | 2cm | | | | | | C. |
| 17 | L | N1 | | | | | | | | | | |
| 18 | R | C/ | 400 | | | | | C/ | 40 | | | |
| 19 | / | P | 400 | 410 | | 1fm | .3 .7 | | | 1= | | C) |
| 20 | L | P | | | 85% | | .2 | | | | | |
| 21 | / | N1 | 4026 | 4041 | X | 2cm DK-NB | | | | E=C) | | C. |
| 22 | L | N1 | | | | | | | | | F* | |
| 23 | / | P | 410 | 420 | | 1fm | .4 2.1 | | | 3= | | C) |
| 24 | L | P | | | 42% | | .3 | | | | | |
| 25 | / | N1 | 4149 | 4166 | X | 1cm | | | | E)F( | | C* |
| 26 | L | N1 | | | | | | | | | | |
| 27 | / | N2 | 4192 | 4200 | X | 1cm | | | | | | C* |
| 28 | L | N2 | | | | | | | | | | |
| 29 | K | C/ | 4192 | | | | | C/ | 15 | | | |
| 30 | | | | | | | | | | | | |
| 31 | / | P | 420 | 430 | | 1fm | H H | | | 1= | | F+ |
| 32 | L | P | | | 21% | | H | | | | | |
| 33 | / | N1 | 420 | 4205 | X | 1cm | | | | | | C* |
| 34 | L | N1 | | | | | | | | | | |
| 35 | K | C/ | 4205 | | | | | 0/ | 35 | | | |
| 36 | / | AP | 4040 | 430 | X | 1fm | | | | 34 | | C( |
| 37 | L | AP | | | 0% | | | | | | | |
| 38 | R | | 4240 | 4310 | CORE VERY BROKEN — FAULTS — GOUGE COMMON | | | | | | | |

0 = Zero 1 = One 2 = Two Ø = Alpha O 2 = Alpha Z 5 = Alpha S

International Geosy-tems Corporation — Geol- System — M N FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE TRAVERSE (PREFIX - TYPE - NUMBER) | PAGE | OF |
|---|---|---|---|---|---|---|
| D E N | 6 B 0 2 | 0 2 | W1002 | 1-43-91 | 9 | 9 |

**WESTERN COPPER HOLDINGS – THERMAL EXPLORATION** — **WILLIAMS CREEK**

| MT/FT | TOTAL DEPTH-LENGTH |
|---|---|
| FT | 455.0 |

Upper Tier Geodata: Unit of Length F T . 2 — %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI — MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP — TE PY MT MO

| KEY | FLAG | FROM | TO | SAMPLE NO. / RECOVERY | INT. / ROCK TYPE | TEXTURES | FRACTURE COUNT | STRUCT | DIP | ALT. | ALT. | LINE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R | | 4240 | 4310 | FAULTING | PLANES AND | GOUGE | | F/ | 35 | | | 1 |
| R | | \ | \ | 35° TO | 45° TO C.A. | | | F/ | 40 | | | 2 |
| R | | / | / | | | | | F/ | 45. | | | 3 |
| / | P | 430 | 440 | | 2c | | 14 .6+ | | E*F) | | | 4 |
| L | ( | | | 64% | | | .3+ | | | | | 5 |
| / | N1 | 4300 | 4310 | X | 15m | 40° | | | | 34 | CC | 6 |
| L | I | | | 0% | | | | | | | | 7 |
| / | M2 | 4310 | 4323 | X | 2el | | | | | | D- | 8 |
| L | | | | | | | | | | | | 9 |
| K | F/W | 4310 | | | | | | C/ | 42 | | | 10 |
| R | F/W | 4310 | GOUGE | ON CONTACT | | | | | | | | 11 |
| / | P | 440 | 450 | | 2c | | .3 .9 | | | | | 12 |
| L | ( | | | 48% | | | .1 | | | | | 13 |
| / | N1 | 4483 | 450 | X | 3 | | | | | | | 14 |
| L | I | | | | | | | | | | | 15 |
| K | C/ | 4830 | | | | | | C/ | 30 | | | 16 |
| / | P | 450 | 455 | | 2c | | 1.4 1.8 | | E= | | | 17 |
| L | F | | | 18% | | | .6 | | | | | 18 |
| / | N1 | 450 | 4520 | X | 3 | | | | | | | 19 |
| L | I | | | | | | | | | | | 20 |
| K | C/ | 452 | | | | | | C/ | 10 | | | 21 |
| / | W2 | 4547 | 4550 | X | 2e | | | | | | | 22 |
| L | | | | | | | | | | | | 23 |

END

International Geos[illegible] ms Corporation — Geol[illegible] System — RECOV[illegible]RY FORM — Geoform

| Field | Value |
|---|---|
| Format Version / Spec | 6 8 0 2 / 0 2 |
| Identity of Project | W1002 |
| ID of Drillhole | 1 - 43 - 91 |
| Page / Of | 01 / 02 |
| Project | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| MT/FT | FT |
| Upper Tier Geodata | %REC |

| FROM | TO | RECOVERY |
|---|---|---|
| 110 | 160 | 74 |
| 160 | 260 | 100 |
| 260 | 360 | 100 |
| 360 | 460 | 100 |
| 460 | 560 | 100 |
| 560 | 660 | 100 |
| 660 | 760 | 100 |
| 760 | 860 | 100 |
| 860 | 960 | 98 |
| 960 | 1060 | 99 |
| 1060 | 1160 | 97 |
| 1160 | 1260 | 100 |
| 1260 | 1360 | 99 |
| 1360 | 1460 | 100 |
| 1460 | 1560 | 100 |
| 1560 | 1660 | 100 |
| 1660 | 1760 | 97 |
| 1760 | 1860 | 100 |
| 1860 | 1960 | 100 |
| 1960 | 2060 | 98 |
| 2060 | 2160 | 99 |
| 2160 | 2260 | 100 |
| 2260 | 2340 | 95 |
| 2340 | 2440 | 100 |
| 2440 | 2540 | 100 |
| 2540 | 2650 | 99 |
| 2650 | 2850 | 98 |
| 2850 | 2930 | 98 |
| 2930 | 2960 | 80 |
| 2960 | 3060 | 100 |
| 3060 | 3160 | 98 |
| 3160 | 3260 | 100 |
| 3260 | 3360 | 100 |
| 3360 | 3460 | 100 |
| 3460 | 3560 | 100 |
| 3560 | 3660 | 97 |
| 3660 | 3760 | 100 |
| 3760 | 3860 | 100 |

0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 1 or I = Alpha I Z = Alpha Z S = Alpha S

International Geosystems Corporation — Geol System — RECOVERY FORM — Geoform

| Field | Value |
|---|---|
| Flag (DEN) | D E N |
| Format Version / Spec | 6 8 0 2 / 0 2 |
| Identity of Project or Sub-Project | W1002 |
| ID of Drillhole / Traverse | 1 - 43 - 91 |
| PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| Page / Of | 02 / 02 |
| MT/FT | FT |
| Recovery | %REC |

| From | To | Recovery |
|---|---|---|
| 386.0 | 396.0 | 100 |
| 396.0 | 406.0 | 100 |
| 406.0 | 416.0 | 97 |
| 416.0 | 426.0 | 92 |
| 426.0 | 436.0 | 99 |
| 436.0 | 446.0 | 106 |
| 446.0 | 455.0 | 89 |

International Geosy tems Corporation — Geol System — RECOV Y FORM — Geoform

**Identity Data**

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE, TRAVERSE (PRE-FIX / TYPE / NUMBER) | SIZE OF CORE OR HOLE | PAGE | OF |
|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 143-91 | HQ | 1 | 2 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | |

WILLIAMS CREEK

**Survey Data** — MT/FT: FT

**Upper Tier Geodata** — RECOVERY: %REC

**Lower Tier Geodata** — RQD: %RQD

| KEY | FROM | TO | %RQD |
|---|---|---|---|
| L | 11 | 20 | 12 |
| L | 20 | 30 | 25 |
| L | 30 | 40 | 29 |
| L | 40 | 50 | 37 |
| L | 50 | 60 | 36 |
| L | 60 | 70 | 48 |
| L | 70 | 80 | 45 |
| L | 80 | 90 | 61 |
| L | 90 | 100 | 55 |
| L | 100 | 110 | 62 |
| L | 110 | 120 | 65 |
| L | 120 | 130 | 49 |
| L | 130 | 140 | 24 |
| L | 140 | 150 | 40 |
| L | 150 | 160 | 41 |
| L | 160 | 170 | 59 |
| L | 170 | 180 | 39 |
| L | 180 | 190 | 38 |
| L | 190 | 200 | 62 |
| L | 200 | 210 | 17 |
| L | 210 | 220 | 41 |
| L | 220 | 230 | 56 |
| L | 230 | 240 | 55 |
| L | 240 | 250 | 64 |
| L | 250 | 260 | 40 |
| L | 260 | 270 | 22 |
| L | 270 | 280 | 20 |
| | | | 280' TO 440' SPLIT SEE CORE LOGS FOR RQD |
| L | 440 | 450 | 35 |

International Geosys ms Corporation — Geolo ystem — SAM E FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | 1 | - | 43-91 | HQ | | | | | | | | OLYMPIC | 91 | 08 | 25 | 08 | 26 | | | GRID | 37. | 01 | 01 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN @ PT. 000 = Collar | FROM Marks Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IF DOWN | MAGN TOTAL w + r + TO + A/M + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | 000 | 0. | | FT | 455. | 247° | -50° | | | | |

| | FLAG | RECOVERY | ROCK | TYP/WEATHERING MIN1 TMI | MIN2 TMI | GAL/MAT QMI | TEXTURES TX1 | TX2 | GRAIN SIZE OF COMP | FRACTURE COUNT: 1 | 2 | STRUCT ID | STRIKE AZM | DIP to Right | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITS CY | CB | MG | XX | PY | CP | GL | YY | SUMMARY Fe | Al | Mz |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | NAM SCL | Unit of Recov. Unit of Length F: T: V: | | | | | % Cu | Au Ag Sol | | Fw | | FG | | | | | | | | | | | | | | |
| L | NAM SCL | Unit of R Q D | | ENV | RTO | Colour TMI | QMI | | | | | | | | | | | | | | | | | | | | |

| GRAPHIC | | FROM | TO | SAMPLE NO. | INT. | HASH TOTAL |
|---|---|---|---|---|---|---|
| | K | H/W | | | | |
| | K | F/W | | | | |
| | A | SAM | 2800 | 2900 | T1 56688 | 100 |
| | | | 2900 | 2933 | T1 56689 | 33 |
| | | | 2933 | 3000 | T1 56670 | 67 |
| | | | 3000 | 3083 | T1 56671 | 83 |
| | | | 3083 | 3102 | T1 56672 | 19 |
| | | | 3102 | 3125 | T1 56673 | 23 |
| | | | 3125 | 3175 | T1 56674 | 50 |
| | | | 3175 | 3200 | T1 56675 | 25 |
| | | | 3200 | 3231 | T1 56676 | 31 |
| | | | 3231 | 3300 | T1 56677 | 69 |
| | | | 3300 | 3357 | T1 56678 | 57 |
| | | | 3357 | 3400 | T1 56679 | 43 |
| | | | 3400 | 3444 | T1 56680 | 44 |
| | | | 3444 | 3522 | T1 56681 | 78 |
| | | | 3522 | 3570 | T1 56682 | 48 |
| | | | 3570 | 3618 | T1 56683 | 48 |
| | | | 3618 | 3700 | T1 56684 | 82 |
| | | | 3700 | 3800 | T1 56685 | 100 |
| | | | 3800 | 3900 | T1 56686 | 100 |
| | | | 3900 | 3980 | T1 56687 | 80 |
| | | | 3980 | 4000 | T1 56688 | 20 |
| | | | 4000 | 4026 | T1 56689 | 26 |
| | | | 4026 | 4041 | T1 56690 | 15 |
| | | | 4041 | 4100 | T1 56691 | 59 |
| | | | 4100 | 4149 | T1 56692 | 49 |
| | | | 4149 | 4205 | T1 56693 | 56 |
| | | | 4205 | 4240 | T1 56694 | 35 |
| | | | 4240 | 4310 | T1 56695 | 70 |
| | | | 4310 | 4323 | T1 56696 | 13 |
| | | | 4323 | 4400 | T1 56697 | 77 |

| | Au | Ag | Sol | Fw |
|---|---|---|---|---|
| | <0.01 | <0.01 | <0.002 | <0.01 |
| | 0.02 | 0.02 | <0.002 | <0.01 |
| | 1.55 | 1.28 | 0.006 | 0.09 |
| | 1.91 | 1.67 | 0.008 | 0.14 |
| | 2.66 | 2.26 | 0.010 | 0.36 |
| | 2.15 | 1.85 | 0.008 | 0.22 |
| | 1.61 | 1.34 | 0.010 | 0.16 |
| | 1.84 | 1.56 | 0.012 | 0.10 |
| | 1.09 | 0.83 | 0.010 | 0.18 |
| | 0.92 | 0.59 | 0.020 | 0.37 |
| | 1.24 | 0.94 | 0.026 | 0.18 |
| | 2.32 | 1.90 | 0.016 | 0.17 |
| | 2.42 | 2.39 | 0.012 | 0.12 |
| | 0.98 | 0.71 | 0.014 | 0.20 |
| | 1.06 | 0.99 | 0.020 | 0.17 |
| | 1.02 | 0.91 | 0.020 | 0.08 |
| | 0.40 | 0.37 | <0.002 | <0.01 |
| | 0.46 | 0.41 | <0.002 | <0.01 |
| | 0.31 | 0.30 | <0.002 | <0.01 |
| | 0.26 | 0.24 | <0.002 | <0.01 |
| | 0.39 | 0.36 | <0.002 | 0.01 |
| | 1.38 | 1.18 | 0.010 | 0.09 |
| | 0.44 | 0.40 | <0.002 | <0.01 |
| | 1.10 | 0.94 | 0.010 | 0.11 |
| | 1.21 | 1.14 | 0.012 | 0.12 |
| | 0.50 | 0.49 | 0.004 | 0.03 |
| | 1.31 | 1.22 | 0.006 | 0.11 |
| | 1.15 | 1.08 | 0.008 | 0.09 |
| | 0.19 | 0.17 | <0.002 | 0.03 |
| | 0.01 | 0.01 | <0.002 | <0.01 |

1 2 3 4 5 6 7 — 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

Z = Alpha Z, Y = Alpha Y, Ø = Alpha O, 9 = Seven, 2 = Two, 1 = One, 0 = Zero

International Geosy~~ems Corporation — Geol~~ System — M~~N FORM — Geoform

| Key | Flag | Format Version | Spec | Identity of Project | ID of Drillhole | Geologged By | Asst By | Drilling By | Started YY/MM/DD | Completed | Co-ord System | Grid Azimuth | Page | Of |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 1-47-91 | MHM | PP | OLYMPIC | 91 08 10 | 09 11 | GRID | 337. | 01 | 16 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | WILLIAMS CREEK | | | | | | |

| Key | MT/FT | Total Depth/Length | AZM | V-ANG | Northing | Easting | Elevation |
|---|---|---|---|---|---|---|---|
| S | FT | 529. | 247. | -50. | 600.9 | 483.5 | 2835.1 |

Upper Tier Geodata: Unit of Length F; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF LI HE BI MA AZ BO CP CC

Lower Tier Geodata: %RQD; L/F; SI CL EP CH TE PY MT MO

| Key | Flag | FROM | TO | SAMPLE NO. / Comments | INT. / Rock Type | Fracture Count | Struct. ID | Dip | MU | CL | EP | MO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | P | 0 | 8.00 | 00 | CASN | | | | | | | |
| / | P | 8 | 10.00 | | 2c | | | | | | | |
| / | P | 10.00 | 20.00 | | 2c | 05 14 | FO | 60° | | | | |
| L | | | | | | 04 | | | | | | |
| R | | | | FAIR WHITE PHENOCRYSTS; VERY WEAK WEA ON FRACTURING; RARE WEAK SHEARS, VERY WEAK CL; | | | | | | | | |
| / | N1 | 15.45 | 15.60 | X | 3 | | D/ | 50° | | | | |
| / | P | 20.00 | 30.00 | | 2c | 10 07 | FO | 45° | | | | |
| L | | | | | | 01 | | | | | | |
| P | | | | UNIT 2c - AS ABOVE; | | | | | | | | |
| / | N1 | 21.50 | 22.00 | X | 3 | | D/ | 40° | | | | |
| / | N2 | 24.30 | 24.80 | X | 5 | | D/ | 60° | PX | | | |
| R | | | | 1% HB TO CL; FINE GRAINED; | | | | | | | | |
| / | N3 | 28.7 | 30.00 | X | 5 | | D/ | 10° | PX | | | |
| / | P | 30.00 | 40.00 | | 2c | 09 07 | FO | 50° | | 0 | | |
| L | | | | | | 05 | | | / | 0 | 0 | D/ |
| R | | | | FAIR WHITE PHENOCRYSTS; | | | | | | | | |
| / | N1 | 31.90 | 32.20 | X | 3 | | D/ | 60° | | | | |
| / | N2 | 34.70 | 35.70 | X | 5 | | D/ | 30° | | | | |
| R | | | | WEAK 3; XCUT FO; | | | | | | | | |
| / | N3 | 37.00 | 37.10 | X | 3 | | D/ | 45 | | | | |
| R | | | | XCUT FO; | | | | | | | | |
| / | P | 40.00 | 50.00 | | 2c | 05 10 | FO | 45 | | 0 | | |
| L | | | | | | 09 | | | / | 0 | 0 | D/ |
| R | | | | FAIR WHITE PHENOCRYSTS; | | | | | | | | |

Z = Alpha Z; I or i = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geosystems Corporation — Geologic System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | LOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | COORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 8 2 | | W1002 | | | 147-91 | | | | | | | | | | | | | | | | | | | | |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| TURN G.PT. 000=Collar | FROM Meters Log of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IS DOWN | HASH TOTAL NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IS SOUTH | EASTING NEG IS WEST | ELEVATION NEG IS SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|
| S | | | FT | | | | | | | |

Upper Tier Geodata: FLAG NAM SCL; Unit of Length F T = 1 2; Unit of Recov.

Lower Tier Geodata: FLAG NAM SCL; M or F; Unit of RQD

GRAPHIC

A: Any Zone Flag = Composite. MAS of MIN or DST = 399. Flag = 21-68 or 53 No. grams. Flag = 01-99 as det. any no.

| FROM | TO | SAMPLE NO. | INT. | RECOVERY | %REC | ROCK TYPE | FOLIATION | S/F M/F | STRUCT ID | STRIKE AZM | DIP | DIP DIR | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41.5 | 42.50 | | | | | FZ | | | F/ | | 15° | 0 | | |
| | | | | | | | | | | | | PX | CA | |
| | | | | 15MM SHEAR STRONG CL-FAIR CA WITH ENVELOPE OF HB TO CL | | | | | | | | | | |
| | | | | SHEAR ALONG LOWER CONTACT OF UNIT 3' | | | | 3' | | | | WEAK-FAIR FAULT | | |
| 44.70 | 46.50 | | | | | S | | | D/ | | 40° | 0 | | |
| | | | | | | | | | | | | 0 | 0 | |
| | | | | APLITE-LIGHT TO DARK COLORED FINE (HB) WITH PATCHES OF WEAK UNIT 3' | | | | | | | | | | |
| 50.00 | 60.00 | | | | | Zc | | 12.12 | FO | | 50° | 0 | | |
| | | | | | | | | 0.4 | | | | 10 | 10 | D/ |
| | | | | FAIR WHITE PHENOCRYSTS TO 50MM | | | | | 56.6-58.1 - FRACTURES MODERATE | | | | | |
| | | | | WEATHERING (WAXY CL ROCK, HB TO CL) | | | | | | | | | | |
| 52.70 | 53.40 | | | | | XS | | | D/ | | 70° | | | |
| | | | | WEAK KF-UNIT 5' | | | | | | | | | | |
| 53.60 | 56.00 | | | | | QS | | | CI | | 20° | | | |
| | | | | | | | | | CI | | 60° | | | |
| | | | | DYKE | | | | | | | | | | |
| 58.10 | 60.00 | | | | | QS | | | CI | | 70° | | | |
| 60.00 | 70.00 | | | | | Zc | | 260.7 | FO | | 45° | 0 | | |
| | | | | | | | | 02 | | | | 10.0 | D/ | |
| | | | | WEAK 1-5MM WHITE PHENOCRYSTS | | | | | | | | | | |
| 60.00 | 65.80 | | | | | QS | | | CI | | 70° | | | |
| | | | | IN PART UNIT 3 | | | | | | | | | | |
| 66.80 | 66.90 | | | | | 3 | | | D/ | | 50° | | | |
| 70.00 | 80.00 | | | | | Zc | | 1304 | FO | | 45° | 0 | | |
| | | | | | | | | 02 | | | | C-10 | D/ | |
| | | | | WEAK WHITE PHENOCRYSTS; | | | | | | | | | | |
| 78.90 | 74.10 | | | | | | | | D/ | | 55° | | | |
| | | | | XCUTS FO | | | | | | | | | | |

Z = Alpha Z; Y or I = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| Identity Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata |
|---|---|---|---|
| FORMAT VERSION: DEN 6020 | TURN @ PT 000 = Collar | FLAG: NAM / SCL | FLAG: NAM / SCL |
| SPEC: W1002 | FROM: Metres Loc of Feature | Unit of Length: FT | Unit of ROD: FT |
| IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): 01-47-91 | TO | Unit of Recov: FT | M or F |
| ID of DRILLHOLE/TRAVERSE: PRE-FIX / TYPE / NUMBER | MT/FT: FT | RECOVERY: %REC | ROD: %ROD |
| SIZE OF CORE OR HOLE | TOTAL DEPTH/LENGTH | ROCK TYPE | AGE Form n |
| GEOLOGGED: YY / MM / DD | AZM (CORRECTED FROM TRUE N) | TYPIFYING MINS | Env / RIG |
| BY | V-ANG | CALMAT | |
| ASST BY | NEG'E DOWN | TEXTURES | |
| COMPLETED: MM / DD | HASH TOTAL OF F + F + 723 + AZM + V-ANG + W + E + EL NOT INCLUDING ANY BLANK FIELDS | GRAIN | |
| DRILLING BY | NORTHING NEG'E SOUTH | FRACTURE COUNT | |
| STARTED: YY / MM / DD | EASTING NEG'E WEST | STRUCT ID / STRIKE AZM | STRUCT ID / AZM |
| COMPLETED: MM / DD | ELEVATION NEG'E SUB-SEA | DIP / DIR | DIP / DIR |
| DRILLING TIME-HRS | | ALTERATION & MINERALIZATION DEFAULT SUITES | |
| SURVEYED BY | | SUMMARY | |
| CO-ORD SYSTEM | | | |
| GRID AZIMUTH | | | |
| PAGE | | | |
| OF | | | |

WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

GRAPHIC

| FROM | TO | SAMPLE NO. | INT. | RECOVERY | ROCK TYPE | FOLIATION | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP | DIR | ALTERATION & MINERALIZATION DEFAULT SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | %REC | | | S/F M/F | | | KF | LI | HE BI / MA AZ / BO CP CC | |
| | | | | %ROD | | | L/F | | | SI | CL | EP CA / TE PY / MT MO | |
| 75.90 | 78.00 | | | | | | | | | | | | |
| | | | | | 4 | | | | | D/ | | | |
| | | | | | | | | | | 05° | | | |
| | | | | | QUIET DARK LEUCOCRATIC GRANITE, MINOR EP; | | | | | | | | |
| 80.00 | 90.00 | | | | 2c | | 0805 | | | FO | | 0 | |
| | | | | | | | 0.2 | | | 45° | / | 0 0 | |
| | | | | | VERY WEAK WHITE PREDOMINANTLY, TOWARDS LOWER CONTACT TO 2cm BLEBS | | | | | | | | |
| | | | | | OF HBL; | | | | | | | | |
| 90.00 | 93.00 | | | | 2c | | 0811 | | | | | 0 | |
| | | | | | | | 0.1 | | | | / | FE 0 | |
| | | | | | LOWER CONTACT TRANSITIONAL TO UNIT 2b | | | | | | | | |
| 93.00 | 100.00 | | | | 2b1 | | | | | | | | |
| 95.50 | 97.80 | | 03 | | | | | | | D/ | | | |
| | | | | | | | | | | 25° | | | |
| | | | | | MED GRAN, MOSTLY FINE PEPPER HB- UNIT 3? | | | | | WITH 0.4FT BAND OF UNIT 3; | | | |
| 98.00 | 98.70 | | 3 | | | | | | | D/ | | | |
| | | | | | | | | | | 60° | | | |
| | | | | | IN PART UNIT 5 | | | | | | | | |
| 99.00 | 100.00 | | 53 | | | | | | | D/ | | | |
| | | | | | | | | | | 20° | | | |
| | | | | | 0.1FT DYKE GRADES INTO PEPPER MAFIC APLITE; | | | | | | | | |
| 100.00 | 111.00 | | 2b | | | | 0707 | | | FO | | 0 | |
| | | | | | | | 0.2 | | | 45° | | OF 0 | |
| | | | | | OCC 0.07FT BAND 2c- LIGHT COLORED | | | | | | | | |
| 110.00 | 120.00 | | 2b | | | | 1004 | | | FO | | 0 | |
| | | | | | | | 0.3 | | | 45° | | | |
| | | | | | STRONG CHLORITIZATION OF HB | | | | | | P6 | 0 0 | D/ |
| 120.00 | 130.00 | | 2b | | | | 1705 | | | | | | |
| | | | | | | | 0.3 | | | | | | |
| | | | | | SLIGHT DECREASE IN MAFIC CONTENT, OCC NARROW BAND OF UNIT 2c | | | | | | | | |
| | | | | | 120.2-120.7-HORNBLENDITE; | | | | | | | | |

0 = Zero 1 = One 2 = Two 3 = Seven Ø = Alpha O I or i = Alpha I S = Alpha S Z = Alpha Z

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | GEOLOGICAL TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | YY | MM | DD | GEOLOGGED BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | | | 187-91 | | | | | | | | | | | | | | | | | | | 21 | 1 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

Survey Data

| S | TURN O FT. 000 = Collar | FROM Marks Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CLOCK DIR FROM TRUE N | V-ANG | NEG IF DOWN | HASH TOTAL = F + T + TO + AZM + V-ANG + N + E + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG IF SOUTH | EASTING | NEG IF WEST | ELEVATION | NEG IF SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | ° | ° | FT | | ° | | ° | | | | | | | | |

Upper Tier Geodata

| / | FLAG | Unit of Recov | RECOVERY | T MOD | MIN | ROCK | WEATHERING | ALTERATION | MINERALIZATION | TEXTURES TX1 | TX2 | GRAIN SIZE | SHAPE | MP | FRACTURE COUNT 1 | 2 | ORI | ft | STRUCT. ID | STRIKE AZM | DIP | DIP DIR | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MC | XX | YY | SUMMARY Fe | Al | Mn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | NAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| / | SCL | Unit of Length F T = 2 | %REC | | | ROCK TYPE | | | | FOLIATION | | | | | S/F M/F | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | |

Lower Tier Geodata

| L | FLAG | M of F | RQD | AGE Form = | ENV | RTQ | CLY Colour | TMU | QMU | TX1 | TX2 | Si | Ra | Sr | °C | h | la | k | J | ft | STRUCT. ID | STRIKE AZM | DIP | DIP DIR | KF | MU | CL | EP | HE | Hw Alt | PR | MO | SI | Hw Alt | How2 | How3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | SCL | Unit of RQD %RQD | | | | | | | | | | | | | | | | | | | | | | | SI | CL | EP | CA | | TE | PY | MT | MO | | |

GRAPHIC

AHF — Any Zone Flag or Flag = Composite, MAX of MIN of (01 - 99)

| / | FLAG | FROM (Flag = Interval, 01-99 as decimal) | TO | SAMPLE NO | INT. | From | To | From | To | From | To | From | To | From | To | From | To | From | To | From | To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | N1 | 122.70 | 123.80 | X5 | | | | | | | | | | | | | | | | | | |
| P | | UPPER CONTACT SHARP, UNIT HIGHLY FRACTURED WITH WEAK PERVASIVE CA. HOLOSET INFERRED TO BE TREMOLITE, | | | | | | | | | | | | | | | | | | | | |
| / | P | 130.00 | 140.00 | | Z6 | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | 0.9 0.7 | | FO | 45° | | | | |
| P | | | | | | | | | | | | | | | 0.2 | | | | / | 0 0 | | D/ |
| | | WEAKER HB THAN NORMAL; A FEW WEAK <0.05 FT UNIT 3 | | | | | | | | | | | | | | | | | | | | |
| / | P | 140.00 | 150.00 | | Z6 | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | 1.0 0.8 | | FO | 45° | | C. | | |
| P | | | | | | | | | | | | | | | 0.4 | | | | / | 0 0 | | D/ |
| | | WEAKER HB THAN NORMAL; A FEW WEAK <1.0 MM DYKES NE UNIT 3 | | | | | | | | | | | | | | | | | | | | |
| / | N1 | 140.60 | 140.65 | | SH | | | | | | | | | | | | SH | 30° | | | | |
| L | | | | | | | | | | | | | | | | | | K1 | | P4 | | |
| P | | 1.0 MM SHEAR - SE AND CA; WEAK FAULT | | | | | | | | | | | | | | | | | | | | |
| / | | 150.00 | 160.00 | | Z6 | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | 0.3 0.4 | | FO | 45° | | 0 | | |
| P | | | | | | | | | | | | | | | 0.0 | | | | / | 0 0 | | D/ |
| | | WEAKER HB THAN NORMAL; WEAK CL' 156.0 - 156.3 - BAND HORNBLENDITE, | | | | | | | | | | | | | | | | | | | | |
| / | N1 | 150.00 | 150.60 | X3 | | | | | | | | | | | | | | | | | | |
| P | | CONTACT SOMEWHAT IRREGULAR | | | | | | | | | | | | | | | DV | 80° | | | | |
| / | N2 | 151.3 | 152.5 | S3 | | | | | | | | | | | | | | | | | | |
| P | | PATCHES IRREGULAR CONTACT FUDGE | | | | | | | | | | | | | | | DV | | | | | |
| / | N3 | 154.8 | 155.20 | X3 | | | | | | | | | | | | | | | | | | |
| P | | STRONG CORE SLIP, | | | | | | | | | | | | | | | DV | 60° | | | | |
| / | P | 160.00 | 170.00 | | Z6 | | | | | | | | | | | | | | | | | |
| L | | | | | | | | | | | | | | | 0.8 0.8 | | FO | 45° | | 0 | | |
| P | | | | | | | | | | | | | | | 0.2 | | | | / | 0 F- | | D/ |
| | | WEAKER HB THAN NORMAL | | | | | | | | | | | | | | | | | | | | |
| / | N1 | 161.6 | 163.5 | S5 | | | | | | | | | | | | | | | | | | |
| P | | FINE GRAINED APLITE WITH 1-2% FINE-MED GRAINED HB, | | | | | | | | | | | | | | | DV | 15° | | | | |
| | | 162.8-30 WEAK SHEAR <2MM WITH SE AND WEAK CA, | | | | | | | | | | | | | | | | | | | | |

1 = One, 2 = Two, 3 = Seven, 4 = Alpha O, 5 = Alpha S, 6 = Zero, 7 = Alpha I, 8 = Alpha Z

International Geosystems Corporation — Geologic System — MASTER FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

Identity Data

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILL HOLE-TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | YY | LOGGED MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIMES-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | | | 147-91 | | | | | | | | | | | | | | | | | | | 1 | 6 |
| I | PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

Survey Data

| S | TURN & PT ODD = Collar | FROM Marks Lip of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG = DOWN | HASH TOTAL R + T + TO + AZM + V-ANG + N + E + EL | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | 0 | | FT | | | | | 0 | 0 | 0 |

Upper Tier Geodata

| FLAG | Unit of Recov | Unit of Length | RECOVERY T100 Mts | ROCK TYPE | TYPIFYING MINS TM1 | TM2 | QAL/MAT QM1 | TEXTURES TX1 | TX2 | GRAIN Fx | C | C.MP | FRACTURE COUNT 1 | 2 | Int Typ | T1 | STRUCT. I.D | STRIKE AZM | DIP To Horiz | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | CP | GL | YY | SUMMARY FA | AI | MZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM SCL | F T . 2 | | %REC | ROCK TYPE | | | | FOLIATION | | | | | S/F | M/F | | | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | |

Lower Tier Geodata

| FLAG | M or F | Unit of RQD | RQD | AGE Form n | ENV | RTQ | Contact | TX1 | QM1 | TX1 | TX2 | Sx | Rx | Sm | Oc | R | Im | L | S | Int Typ | T1 | STRUCT. I.D | STRIKE AZM | DIP To Horiz | KF | MO | CL | EP | CA | ME | Hw Amt | PR | MO | SS | Hw Amt | How2 | How3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAM SCL | | %RQD | | | | | | | | | | | | | | L/F | | | | | | | | | SI | | CL | EP | CA | | TE | PY | MT | MO | | | |

GRAPHIC

Any Zone Flag or Flag = Composite of AZ or ANG or 001 - 999

If Flag = Any no 21-98 or 55 No. arrange Flag = Any no 01-99 as desired

| FROM | TO | RECOVERY | Core Sample Serial No. | SAMPLE NO. | INT. | A1 From | A1 To | A2 From | A2 To | A3 From | A3 To | A4 From | A4 To | A5 From | A5 To | A6 From | A6 To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 163.00 | 163.05 | | | X | | | | | | | | | | | | | | |
| | | 10 MM SMEAR CHLORITE CA VEAC | | | | | | | | | | | | | | | | |
| | | 166.1 - 85° WEAK SHEAR 12MM | | | | | | | | | | | | | | | | |
| 170.00 | 174.10 | | | 2a | | | | | | | | | | | | | | |
| | | WEAKER MAFIC TRIM NORMAL | | | | | | | | | | | | | | | | |
| 174.10 | 180.00 | | | 2a1 | | | | | | | | | | | | | | |
| | | NORMAL UNIT 2a1 TWO KILOHM UNIT 8 DYKES | | | | | | | | | | | | | | | | |
| 174.10 | 175.20 | | | XS | | | | | | | | | | | | | | |
| | | MIDDLING 0.3 FT UNIT 3-65° | | | | | | | | | | | | | | | | |
| 180.00 | 188.0 | | | 2a | | | | | | | | | | | | | | |
| | | LOWER CONTACT FAIRLY SHARP | | | | | | | | | | | | | | | | |
| 180.00 | 190.00 | | | 2b1 | | | | | | | | | | | | | | |
| | | VEINLETS FROM NORMAL TO BELOW NORMAL HB | | | | | | | | | | | | | | | | |
| 190.00 | 200.00 | | | 2b | | | | | | | | | | | | | | |
| | | BELOW 198.55 UNIT 2b DECREASED WORN BLEBBY | | | | | | | | | | | | | | | | |
| 191.70 | 191.60 | | | 05 | | | | | | | | | | | | | | |
| | | 0.2 FT APLITE AT TOP; SHARP CONTACT UNDER APLITE WITH 1/2% FINE IHB | | | | | | | | | | | | | | | | |
| 192.10 | 193.00 | | | 93 | | | | | | | | | | | | | | |
| | | AT TOP 0.3 FT UNIT 3 AND BELOW FINE GRAINED APLITE WITH 8-15% | | | | | | | | | | | | | | | | |

1 2 3 4 5 6 7

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

5 = Alpha S  0 = Zero  1 = One  2 = Two  7 = Seven  Ø = Alpha O  1 or I = Alpha I  Z = Alpha Z

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| FLAG | FORMAT VERSION | IDENTITY OF PROJECT | HOLE NUMBER |
|---|---|---|---|
| D E N | 6 8 0 2 0 2 | W1002 | 147-91 |

P R J: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

MT/FT: FT

Upper tier geodata: %REC, ROCK TYPE, FOLIATION, S/F M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC

Lower tier geodata: %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO

| Key | Flag | From | To | Sample No. / Rock | Fracture | Struct | Dip | Alteration | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| / | N3 | 193.00 | 195.50 | 25 | | D/ | 80° | | |
| R | | | | | | | | | DYKES 0.05 TO 0.25 FT; WIDER DYKES IRREGULAR CONTACTS; |
| / | N4 | 197.7 | 198.55 | 43 | | D/ | 70° | | |
| R | | | | | | | | | DYKES TO 0.2 FT |
| R | | | | | | | | | 197.5 - 25° SH WITH QUARTZ & CALCITE |
| R | | | | | | | | | 197.0 - 200.0 - FAIR 30° FRACTURES WITH WEAK KF ENVELOPES POORLY |
| R | | | | | | | | | DEVELOPED; |
| / | P | 200.00 | 210.00 | 26 | 10 04 | | | 0 | |
| L | | | | | 25 | | | / 0 0 | |
| R | | | | | | | | | GENERALLY FEW NORMAL MAFIC; <10% BANDS OF UNIT 2C. |
| / | N1 | 202.60 | 203.60 | X 2e | | FO | 65° | | |
| / | N2 | 203.60 | 204.20 | 95 | | | | | |
| R | | | | | | | | | WEAK UNIT 2 ... |
| / | N3 | 205.20 | 205.60 | X 3 | | D/ | 65° | | |
| R | | | | | | | | | XCUTS FO |
| | N4 | 208.30 | 208.40 | X | | SH | 25° | | |
| | | | | | | | | | WEAK FINE SHEARS; VERY WEAK FAULT; WEAK CALCITE |
| / | P | 210.00 | 213.45 | 26 | 071.1 | FO | 45° | / 10 0 (0) | |
| L | | | | | 21 | | | | |
| R | | | | | | | | | |
| / | N1 | 212.20 | 213.30 | X 2c | | | | | |
| R | | | | | | | | | UNIT 2e? - OR ALTERED BORDER TO UNIT 6; KF WEAK FLOODED? |
| / | N2 | 213.30 | 213.45 | X 6 | | D/ | 70° | | |
| L | | | | | | | | | FAIR - CROWDED FELDSPAR PHENOCRYSTS IN A DARK GREEN MATRIX; |
| R | | | | | | | | | IN FOOTWALL 0.3 FT ENVELOPE FAIR KF |

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | HOLE PREFIX | TYPE | NUMBER | SIZE OF CORE DRILLED | GEOLOGGED YY | MM | DD | BY | ASST YY | COMPLETED MM | DD | DRILLING BY | YY | STARTED MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Identity Data | D E N | 6 8 0 2 0 2 | | W1002 | | | 147-91 | | | | | | | | | | | | | | | | | | | | |
| | P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| Survey Data | TURN G.P. 000=Collar | FROM Metres Log of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG SIGN DOWN | MAGN TOTAL F + F x TO - AZM + V-ANG + DIP + EL NOT INCLUDING ANY BLANK FIELDS | NORTHING METRES SOUTH | EASTING METRES WEST | ELEVATION METRES SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | 0 | | FT | | | | | | | |

| Upper Tier Geodata | FLAG N A M / S C L | Unit of Recov | Unit of Length F | RECOVERY | T MOD Min | ROCK TYPE | TYPIFYING MINS TXN | TXM | GALMAT GXM | TEXTURES TX1 | TX2 | GRAIN SX | FRACTURE COUNT 1 | 2 | STRUCT 1D | STRIKE AZM | DIP Tenths | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | CP | GL | YY | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | %REC | | | | | | FOLIATION | | | S/F | M/F | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | |

| Lower Tier Geodata | FLAG N A M / S C L | M or F | Unit of ROD | RQD | AGE Form a | ENV | RTQ | Ca Content | TXM | GXM | TX1 | TX2 | SX | RX | SN | ID/C | IS | TS | STRUCT 1D | AZM | DIP Tenths | KS | MU | CL | EP | HE | Hw Amt | PR | MO | SL | Hw Amt | How1 | How2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | %ROD | | | | | | | | | | | | | | L/F | | | | | SI | CL | EP | CA | | TE | PY | MT | MO | | | |

| GRAPHIC | A | FROM | TO | SAMPLE NO. | INT. | RECOVERY | Fe % From | Fe % To | SiO2 % From | SiO2 % To | S % From | S % To | HASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | |

| | | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|---|
| / | P | 213.45 | 220.00 | | 2m | |
| L | | | | | | |
| P | | | | WEAK-FAIR WHITE PHENOCRYSTS TO 15MM; | | |
| / | N1 | 215.60 | 216.10 | X | 3 | D/ 60° |
| / | N2 | 216.40 | 216.80 | X | 3 | D/ 45° |
| P | | | | BELOW 216.80 TO 219.01 PARALLEL CORE AXIS FINE GRAINED 1-2% HEM FILL EB HB; | | |
| / | P | 220.00 | 230.00 | | 2m | 1303 F0 50° C. D. |
| L | | | | | | 02 |
| P | | | | TO 222.10 WEAK-FAIR WHITE PHENOCRYSTS BELOW 222.10 - BLUE QUARTZ | | |
| P | | | | COMMON SCATTERED WEAK KF PHENOCRYSTS TO 25MM AND FAIR WHITE | | |
| P | | | | PHENOCRYSTS NEAR BOTTOM | | |
| / | N1 | 222.00 | 222.30 | X | 3 | D/ 65° |
| / | N2 | 226.50 | 226.70 | X | 3 | D/ 45° |
| / | N3 | 229.60 | 229.30 | X | 3 | D/ |
| P | | | | UNITS TO NEAR BOTTOM CONTACT; | | |
| / | P | 230.00 | 240.00 | | 2m | 0806 F0 55° |
| L | | | | | | 05 |
| P | | | | UPPER CONTACT TRANSITIONAL WEAK UNIT 2d AS KF PHENOCRYSTS WEAK | | |
| P | | | | TO FAIR; BLUE QUARTZ; FAINT CALCITE 2C WITH VF PHENOCRYSTS; | | |
| / | N1 | 231.10 | 231.60 | X | 3 | D/ 45° |
| / | N2 | 232.60 | 232.95 | X | 3 | D/ 60° |
| / | P | 240.00 | 241.00 | | 2m | 0708 C. D. |
| L | | | | | | 03 |
| P | | | | LOWER CONTACT TRANSITIONAL - KF PHENOCRYSTS DISAPPEAR; | | |

1 = One 2 = Two 7 = Seven Ø = Alpha O 1 or I = Alpha I Z = Alpha Z S = Alpha S 0 = Zero

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| FORMAT VERSION | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | PROJECT |
|---|---|---|
| DEN 6 8 9 2 0 2 | W1002 | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION |

DRILLHOLE: PRE-FIX / TYPE / NUMBER — 97-91 — WILLIAMS CREEK

| FROM | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM | V-ANG | NORTHING | EASTING | ELEVATION |
|---|---|---|---|---|---|---|---|---|
| | | FT | | | | | | |

| FROM | TO | RECOVERY %REC | ROCK TYPE | FOLIATION | S/F M/F | STRUCT ID | STRUCT AZM | DIP | ALTERATION & MINERALIZATION (DEFAULT SUITES) | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | KF LI HE BI MA AZ BO CP CC | |

| FROM | TO | RQD %RQD | ROCK TYPE | L/F | STRUCT ID | STRUCT AZM | DIP | ALTERATION & MINERALIZATION (DEFAULT SUITES) | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | SI CL EP CA TE PY MT MO | |

| FROM | TO | SAMPLE NO. | INT. |
|---|---|---|---|
| 241.00 | 250.00 | | 2c |

P: A FEW KF PHENOCRYSTS TO 1.0MM; LOWER CONTACT

| FROM | TO | | |
|---|---|---|---|
| 245.00 | 245.05 | | |

N: QUARTZITE VEIN, MINOR SIDERITE?; 0.2 VC 2.0° EPIDOTE FAIR PERVASIVE EP

| FROM | TO | | |
|---|---|---|---|
| 250.00 | 252.00 | | 2c |

P: 0.6 0.7 FO 45° D 0 0 D/; 0.1 L

| FROM | TO | | |
|---|---|---|---|
| 252.00 | 260.00 | | 2d |

P: 12 0 / E- 0 D/

WEAK-FAIR KF PHENOCRYSTS UP TO 3.0MM; ENVELOPES UP TO 0.2 ET AROUND FRACTURES; 2c WITH KF

| FROM | TO | | |
|---|---|---|---|
| 260.00 | 270.00 | | 2c |

P: 0.4 0.6 FO 45° C- 0.5 / DC- D/

WEAK WHITE PHENOCRYSTS; FAIR KF PHENOCRYSTS

| FROM | TO | | |
|---|---|---|---|
| 263.80 | 264.20 | | XS |

N1: D/ 15°

UNIT S1 WITH FINE PEPPER MAFICS;

| FROM | TO | | |
|---|---|---|---|
| 269.95 | 270.00 | | X3 |

N2: D/ 80°

| FROM | TO | | |
|---|---|---|---|
| 270.00 | 271.50 | | 2cd |

P: 1.5 0.3 D/ 60° 0 / C- 0.1 L

LOWER CONTACT TRANSITIONAL; TAKEN AT START OF KF PHENOCRYSTS;

| FROM | TO | | |
|---|---|---|---|
| 271.50 | 276.80 | | 2d |

P: P3

FAIR-MOD KF PHENOCRYSTS 4.0MM; RARE KF AND EP ENVELOPE ON FRACTURE;

| FROM | TO | | |
|---|---|---|---|
| 275.20 | 275.40 | | XS |

N1: D/ 45°

Z = Alpha Z; I or J = Alpha I; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

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ENTER KEYS in COL 1 TO ACTIVATE ENTRIES

Identity Data: FLAG DIEN; FORMAT VERSION 6 B D 2 0 2; SPEC; IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) W1002; ID of DRILLHOLE PRE-FIX 147-91; TRAVERSE TYPE; NUMBER; SIZE OF CORE OR HOLE; GEOLOGGED YY MM DD; BY; ASST BY; COMPLETED MM DD; DRILLING BY; STARTED YY MM DD; COMPLETED MM DD; DRILLING TIME-HRS; SURVEYED BY; CO-ORD SYSTEM; GRID AZIMUTH; PAGE 20; OF 46

PROJECT: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: TURN CPT 000=Collar; FROM Marks Loc of Feature; TO; MT/FT FT; TOTAL DEPTH-LENGTH; AZM; CLOCKWISE FROM TRUE N; V-ANG NEG=DOWN; MAGN TOTAL (P + T + D + AZA + V-ANG + N + E + EL) NOT INCLUDING ANY BLANK FIELDS; NORTHING NEG=SOUTH; EASTING NEG=WEST; ELEVATION NEG=SUB-SEA

Upper Tier Geodata: FLAG NAM SCL; Unit of Recov; Unit of Length F; RECOVERY %REC; ROCK ROCK TYPE; WEATHERING MINS TM1 TM2; DALMAT ORN1; TEXTURES TX1 TX2; GRAIN SZ CL COMP; FOLIATION; FRACTURE COUNT 1 2; STRUCT ID; STRIKE AZM; DIP TYPE DIR; ALTERATION & MINERALIZATION DEFAULT SUITES CY CR MC XX PY CP CL YY; SUMMARY FA A R MX I

Lower Tier Geodata: FLAG NAM SCL; Unit of R QD; %RQD; RQD; AGE Form; ENV; RTO; CSG Consis; TM3; ORN2; TX3; TX4; Se Rn Im; QC; S IN I L J; IN TY; IN TX; STRUCT ID; AZM; DIP TYPE DIR; XF; MU; ALTERATION & MINERALIZATION CL EP HF; Hw Amt; PR; MO SL; Hw Azm; Hdw; Pdw2

L/F; SI CL EP; TE PY; MT MO

GRAPHIC

A: Any Zone Flag or Flag = Composite; MAX or MIN or 001 -> 999; Flag = FROM (27-68 = SING); any no. 01-99 as TO

RECOVERY: Lower Sample No.; FROM; TO; SAMPLE NO.; INT.; SSA From; SSA To; SSA Type; SSA From; SSA To; SSA From; SSA To; MASH TOTALS

| | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|
| P | 276.80 | 280.00 | | | 2D |
| N1 P | 277.60 | 277.90 | X | 5 | SHEARED |
| P | 280.00 | 290.00 | | | 2b1 |
| R | | | | | 280.0-281.2 - WEAK KF BOUDER HALOLIKE FRACTURES, 2823-2833 - WEAK 40 FT BANDS OF PEPPER ME APLITE; |
| N1 L P | 283.80 | 286.30 | | 85 | APLITE - DARK COLOR IMPARTED BY FINE MAFICS; WK PATCHES MED GRAINED - ED UNIT 3 |
| P | 290.00 | 298.70 | | | 2b1 |
| R | | | | | 294.0-295.0-QB (SDPP) VEINLETS K2.3MM WITH HALO IN ENVELOPE OF WEAK KF 295.45-WEAK COATING MC; |
| N1 P | 291.0 | 291.55 | X | 3 | FOOTWALL WALLROCK WEATHERED 0.2 FT; |
| N2 R | 296.4 | 297.40 | | 85 | FINE GRAINED MAFICS; |
| P | 298.70 | 300.00 | | 2c | ENVELOPE KF 2-0.2 WEAK-FAIR AROUND FRACTURE; |
| P | 300.00 | 310.00 | | 2c | WEAK WHITE PHENOCRYSTS; 305.5-310.0-BLEB QZ COMMON; |
| R | | | | | 304.0-305 CL-CA SHEAR <5MM |
| P | | | | | 305.0-25 HF SHEAR - PINK (KF) ENVELOPE; |

Alpha Z = 1 = One; 2 = Two; 7 = Seven; Ø = Alpha O; for I = Alpha I; S = Alpha S

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE-TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | COORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | | | 1/27-91 | | | | | | | | | | | | | | | | | | | 10 | 16 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN'G PT. 000 = Collar | FROM Metric Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG'V DOWN | NORTHING NEG'V SOUTH | EASTING NEG'V WEST | ELEVATION NEG'V SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|
| S | S | | | FT | | | | | | |

| | FLAG | Unit of Recov | Unit of Length: FEET = 2 | RECOVERY | Twidth | Mtx | ROCK TYPE | TYPIFYING MINS TMI | TMI2 | CALMAT CMH | TEXTURES TX1 | TX2 | GRAIN CR | CMP | FRACTURE COUNT 1 | 2 | STRUCT. ID | STRIKE AZM | DIP | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | SUMMARY CP | GL | YY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | NAM | | | %REC | | | | | | | FOLIATION | | | | S/F | M/F | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC |
| L | SCL | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | FLAG | M or F | Unit of RQD | RQD | AGE From m | ENV | RTO | LC Contour | TMI | CMH | TX1 | TX2 | Sx | Rx | Sh | °C | N | Fm | S | STRUCT2 ID | AZM | DIP | Trend | KF | MU | CL | EP | HE | Hw Amt | PR | MO | SL | Hw Amt | How1 | How2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM | | | %RQD | | | | | | | | | | | | | | | | | | | | SI | CL | EP | CA | | TE | PY | MT | MO | | | |
| L | SCL | | | | | | | | | | | | | | | | L/F | | | | | | | | | | | | | | | | | | |

GRAPHIC

A — Any Zone Flag or Flag = Composite (MAX or MIN as DDY – 999); If Flag = 21-68 = 5.5 No. zones; Flag = any on 01-99 as det.

| | FROM | TO | RECOVERY (0 = Lumped Section) | SAMPLE NO. | INT. | Ag From | Ag To | Au From | Au To | Cu From | Cu To | Mo From | Mo To | MASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / P | 310.00 | 320.00 | | | 2c | | | | | | | | | |
| L | | | | | | | | | | | | | | |
| R | | | INCREASED CA VEINS/FRACTURES ON FRACTURES, VERY WEAK KF ENVELOPES ALONG | | | | | | | | | | | |
| R | | | FRACTURED UNIT 2c WEAK WHITE PHENOCRYSTS | | | | | | | | | | | |
| / N1 | 318.00 | 318.15 | X3 | | | | | | | | | | | |
| R | | | WEAK SHEARED | | | | | | | | | | | |
| / P | 320.00 | 330.00 | | | 2c | | | | | | | | | |
| L | | | | | | | | | | | | | | |
| R | | | WEAK IN PHASES FAIR WHITE PHENOCRYSTS | | | | | | | | | | | |
| / N1 | 320.50 | 320.52 | | | 2c | | | | | | | | | |
| R | | | 3MM HE SHEAR-WEAK FAULT | | | | | | | | | | | |
| / N2 | 324.60 | 324.80 | X5 | | | | | | | | | | | |
| R | | | 323.0-330.5 ZONE FRACTURES <5MM SHEARS INCREASE TO LOWER CONTACT | | | | | | | | | | | |
| R | | | WITH PINK ALTERATION ENVELOPES - CY, S VEINS - UNREADABLE CY/CL HE AND | | | | | | | | | | | |
| R | | | CA/ | | | | | | | | | | | |
| / P | 330.00 | 340.00 | | | 2c | | | | | | | | | |
| L | | | | | | | | | | | | | | |
| R | | | FAIR WHITE PHENOCRYSTS TO 40MM | | | | | | | | | | | |
| / N1 | 330.30 | 330.50 | | | | | | | | | | | | |
| R | | | OLIFT FAULT-MAIN BREAK-WHITE 1 PALE GREEN ST | | | | | | | | | | | |
| R | | | ZONE OF FRACTURING & WEAK SHEARS +/- 1-2 / OSET-FILLED WITH HEMATITE | | | | | | | | | | | |
| R | | | AMOUNTS OF CA, QZ HE FROM 330.50-331.20 PINK ALTERATION ENVELOPES | | | | | | | | | | | |
| | | | AROUND FRACTURES AND SHEARS-FX AND HE ALTERED / | | | | | | | | | | | |
| / N2 | 334.60 | 334.80 | | | | | | | | | | | | |
| L | | | MAIN BREAK-QZ MUD CA/ | | | | | | | | | | | |
| R | | | 334.80-336.30-FAIR <2MM FRACTURES & SHEARS | | | | | | | | | | | |
| / N3 | 336.30 | 336.50 | | | | | | | | | | | | |
| R | | | WEAK FAULT-<5MM HE SHEARS | | | | | | | | | | | |

1 = One; 2 = Two; 3 = Seven; Ø = Alpha O; 1 or I = Alpha I; 2 = Alpha Z; 5 = Alpha S; 0 = Zero

| Identity of Project | Hole No. | Page | Of |
|---|---|---|---|
| W1002 | 147-91 | 1 | 6 |

**WESTERN COPPER HOLDINGS – THERMAL EXPLORATION** — **WILLIAMS CREEK**

Units: FT

| Key | Flag | From | To | Remarks / Sample No. | Rock Type | Fracture Count | Struct. | Dip | Alteration / Mineralization | Other |
|---|---|---|---|---|---|---|---|---|---|---|
| R | | | | 339.0-340.0 – WEAK QZ-CA AND CA FILLED FRACTURES, WEAK-FAIR HM, ALTERATION ON FELDSPARS; | | | | | | |
| / | P | 340.00 | 350.00 | | 2c | 071.8 | FO | 45° | 0C- | |
| L | | | | | | 05 | | | 0P/ 0C- | D/ |
| R | | | | WEAK IN PLACES FAIR WHITE PHENOCRYSTS; | | | | | | |
| / | N1 | 340.50 | 340.60 | | | | F/ | 50° | | |
| R | | | | FAULT-0.1 FT SHEARED 5MM AT UPPER CONTACT; PINK ALTERATION – 340.0 – | | | | | | |
| R | | | | 342.0 – MODERATE(?) FAULT; | | | | | | |
| / | N2 | 342.80 | 342.85 | | | | SH | 40 | | |
| R | | | | HE SHEAR – STRONG HE, FAIR CA; STRONG FAULT | | | | | | |
| R | | | | 324.6-342.85 – FRACTURE, SHEAR FAULT ZONE; | | | | | | |
| / | N3 | 349.40 | 350.00 | | | | C/ | 50° | P9 | |
| R | | | | STRONG FO; SEE BELOW FOR DETAILS | | | | | | |
| / | P | 350.00 | 357.40 | | 2c | 0.712 | FO | 60° 71 | 0 | |
| L | | | | | | 0.5 | | | 0P9 0C- | |
| R | | | | 2c? – STRONG FOLIATION – MAFICS – STRONG CHLORITIZATION; CONTACTS | | | | | | |
| R | | | | SHOW SHEARING, 45% <QZ INDISTINCT BANDS UNIT 3; PROBABLE | | | | | | |
| | | | | WIDE SHEAR ZONE; | | | | | | |
| / | N | 354.30 | 355.10 | | 53 | | SH | 55° | | |
| R | | | | STRONG SHEARED AT LOWER CONTACT | | | | | | |
| / | P | 357.40 | 360.00 | | 2c | | | | | |
| R | | | | WEAK WHITE PHENOCRYSTS – <20MM; NONE SHEARED | | | | | | |
| / | P | 360.00 | 370.00 | | 2c | 1.306 | FO | 55° | 0 | |
| L | | | | | | 0.3 | | | / 0C- | D/ |
| R | | | | FAIR WHITE PHENOCRYSTS TO 30MM; WEAK SHEARS | | | | | | |
| / | N | 363.30 | 364.40 | | X3 | | D/ | 60° | | |
| R | | | | SHEARED WEAKLY. | | | | | | |

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | SUFFIX | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
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| I | D E N | 6 8 0 2 0 2 | | W1002 | | 147 | 91 | | | | | | | | | | | | | | | | | | | 12 | 16 |
| I | P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | FROM (Marks Loc of Feature) | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM (CLOCKWISE FROM TRUE N) | V-ANG (NEG'E DOWN) | HASH TOTAL (+ + T + TO + AZM + V-ANG + N + E + EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING (NEG'E SOUTH) | EASTING (NEG'E WEST) | ELEVATION (NEG'E SUB-SEA) |
|---|---|---|---|---|---|---|---|---|---|---|
| S | | | FT | | | | | | | |

| | FLAG | RECOVERY | ROCK | TYPE/VEYING MIN1 | TMI | GAL/MAT | GMI | TEXTURES | TX1 | TX2 | GRAIN | FRACTURE COUNT | STRUCT. ID | STRIKE AZM | DIP (degrees) | DIR | ALTERATION & MINERALIZATION (DEFAULT SUITES) | | | | | | | | SUMMARY | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | N A M | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S C L | %REC | ROCK TYPE | | | | | FOLIATION | | | | S/F M/F | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | |
| | FLAG | ROD | ACC Form | ENV | RTO | | | | | | | | | | | | | | | | | | | | | |
| | N A M | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S C L | %RQD | | | | | | | | | | L/F | | | | SI | CL | EP | | | TE | PY | MT | MO | | |

| | FROM | TO | RECOVERY SAMPLE NO. | INT. | |
|---|---|---|---|---|---|
| | 364.40 | 368.80 | | | |

BASIDE 10T - 2.8 BT - UNIT 3? - FINE - MEDIUM GRA... USED ... BEA... MARKS: X-CUT ... E
UNIT 2C - ... TUFFACEOUS ... ACCC... ... UNCERTAIN ... E 2 ... E

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P | 370 | 380 | | | 2C | HE INCREASE DOWN INTERVAL | | 2.3.5 .1 | | | | | | | | | | 2) F | | | | | | | | |
| | | | 41% | | | | | | | | | | | | | | | | | | | | | | | | |
| KF/ | 371.4 | | | | | | | | | | | | | | F/ | | 3.7 | | | | | | | | | | |
| P | 380 | 390 | | | 2C | | | 3.5.5+ .4 | | | | | | | | | | | | | | | | | | | |
| | 30% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KF/ | 382.3 | | | | | | | | | | | | | | F/ | | 3.7 | | | | | | | | | | |
| NI | 382.5 | 384.8 | | X | 1fm | BI DOMINANT BUT HAS HB PHENOCRYSTS 1M IMM. TO 4 M.M. RANGE -IS NOT TYPICAL IF — DOES NOT CONTENT IVOR IS AS FOLIATED — HB DOMINANT | | | | | | | | | | | | D* | | C* | | | | | | |
| N2 | 385.8 | 389.3 | | X | 3fi | VERY BROKEN-UP MA AT END OF INTERVAL | | | | | | | | | | | | | | C— CP | | | | | | | |
| ANI | 389.3 | 390.0 | | X | 1fm | | | | | | | | | | | | | D* | | C— | | | | | | | |
| P | 390 | 400 | | | 1fm | SAME AS 382.5 — 384.8 FT | | 1.2.4 .2 | | | | | | | | | 2) | | | C— | | D— D• | | | | | |
| | 80% | | | + | 1gm | | | | | | | | | | | | 2( | | | C— | | | | | | | |
| N2 | | | | | 1 | 1cm | | | | | | | | | | | 2( | | | C— | | | | | | | |
| P | 400 | 410 | | | 1f | | | 2.0.1.0 0 | | | | | | | | | P1 | | | | | | | | | | |
| | 66% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MI | 400 | 403.8 | | | 1c | SAME AS 382.5 + 384.8 FT | | | | | | | | | | | P1 | D) | | | | | | | | | |
| N2 | 401.9 | 402.1 | | X | 3 | | | | | | | | | | D/ | | 25 | | | | | | | | | | |
| KF/ | 402.2 | | | | | | | | | | | | | | F/ | | 4.5 | | | | | | | | | | |
| N3 | 405.8 | 410.0 | | | 1fm | | | | | | | | | | | | P) | D( | | C— | | | | | | | |
| N4 | | | | | 1 | 1dm | BAND WITHIN 1F | | | | | | | | | | | D) | | C— | | | | | | | |
| P | 410 | 420 | | | 1fm | | | 1.2.1.7 | | | | | | | | | P) | D) | | C— | | | | | | | |
| | 90% | | | | | | | | | | | | | | | | | | | | | | | | | | |

1 = One 2 = Two 7 = Seven Ø = Alpha O Ø = Alpha I I or I = Alpha J 2 = Alpha Z S = Alpha S 0 = Zero

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (SUBSQUENT) | NO. OF DRILLHOLE TRAVERSES PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | COORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DEN | 6 B 0 2 0 2 | | W1002 | / | 47 | -91 | | | | | | | | | | | | | | | | | | | 13 | 16 |
| PRJ | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| TURN G/PT 000 = Collar | FROM Marks Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM CORRECTION FROM TRUE | V-ANG | NEG = DOWN | HASH TOTAL (N + T + TD + AZM + V-ANG + N + E + EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG = SOUTH | EASTING | NEG = WEST | ELEVATION | NEG = SUBSEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | FT | | | | | | | | | | | |

| FLAG NAM | STC L | Unit of Recov | Unit of Length — FT = 2 | RECOVERY | T MOD | Min | ROCK TYPE | PYROXENE VAR1 | VAR2 | GALAXAR GAR1 | TEXTURES TX1 | TX2 | GRAIN PA | CR | COMP | FRACTURE COUNT 1 | 2 | STAGE 1 ID | STAGE 1 AZM | DIP To Right | DIP DZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CS | MG | XN | PY | CP | GL | YY | SUMMARY FA | AI | MI | I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | %REC | | | | | | | FOLIATION | | | | | S/F | M/F | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | | | |

| FLAG NAM | STC L | M or F | Unit of R Q D — % | RQD | ACE | ENV | RFD | CSOV | TM1 | QM1 | TX1 | TX2 | SR | RU | SH | OC | JS | JM | JL | JT | STRUCT ID | STRUCT AZM | DIP To Right | DIP KS | MU | CL | EP | HE | Hw Alt1 | PR | MO | SL | Hw Alt2 | How2 | How3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | %RQD | | | | | | | | | | | | | L/F | | | | | | | SI | CL | EP | | TE | PY | MT | MO | | | | |

| FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4010 | 4158 | | 2 | 1 em | | | | | | | | | | | | | | | | | | P* | D+ | | C- | | | | | | | | |
| 4100 | 4158 | | 1 | dm | SAME AS 405.8 - 410.0 FT UNIT M4 | | | | | | | | | | | | | | | | | | | | C. | | | | | | | | | |
| 4158 | 4181 | | X | 3 mi | | | | | | | | | | | | | | | | | | | | | C C | | | | | | | | | |
| 4181 | 4200 | | 3 | 1 em | | | | | | | | | | | | | | | | | | | | | C C | | | | | | | | | |
| 4197 | 4210 | | | | GREEN CLAYS | | | | | | | | | | | | | | | SN/ | 90 | | P1 | | | | | | | | | | | | |
| 4201 | 4301 | | 1 | Fm | SIMILAR TO 382.5 - 384.8 FT | | | | | | | | | | | | 2.4.9 | | | | | | P) | | C C | | | | | | | | | |
| 4201 | 4282 | 52% | 4 | 1 em | | | | | | | | | | | | | | | | | | | P= | | C C | | | | | | | | | |
| 4201 | 4282 | | 3 | 1 dm | | | | | | | | | | | | | | | | | | | P1 | | C C | | | | | | | | | |
| 4201 | 4301 | PERVASIVE HE IS SPOTTY THROUGH INTERVAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4282 | 4310 | | | 1 gm | | | | | | | | | | | | | | | | | | | P+ | | C- | | | | | | | | | |
| 4296 | | WITH GREEN CLAY AND KI | | | | | | | | | | | | | | | | | E/ | 25 | | P+ | 3= | | C. | | | | | | | | | |
| 4301 | 4402 | 72% | | 1 gm | | | | | | | | | | | | | 1.9.5 | | | | | | | | | | | | | | | | | |
| 4322 | 4323 | | | FAULT STRONGLY WEATHERED | | | | | | | | | | | | | | | E/ | | | | | | | | | | | | | | | | | |
| 4330 | | | | | | | | | | | | | | | | | | | E/ | 37 | | P1 | F/ | | | | | | | | | | | | |
| 4323 | 4346 | | X | 1 em | MINOR GREEN CLAY IN FRACTURES OR BANDS | | | | | | | | | | | | | | | | | | P1 | 2+ | | C- | | | | | | | | | |
| 4346 | 4359 | | X | 1 gi | | | | | | | | | | | | | | | | | | | P1 | 2+ | | | | | | | | | | |
| 4359 | 4400 | | X | 1 em | | | | | | | | | | | | | | | | | | | D= | P+ | | C. | | | | | | | | |
| 4401 | 4501 | 92% | | 2 em | | | | | | | | | | | | | 1.6 / .4 | | | | | | P= | P+ | | C. | | | | | | | | |
| 4437 | 4501 | | 3 | 1 e | | | | | | | | | | | | | | | | | | | 3+ | D) | | | | | | | | | | |
| 4437 | 4501 | | 7 | 1 f | | | | | | | | | | | | | | | F0/ | 42 | | | 3+ | D) | | | | | | | | | | |
| 4501 | 4601 | 75% | | 1 e | | | | | | | | | | | | | 1.5 / .1 | | | | | | 3+ | D) | | | | | | | | | | |
| 4501 | | | | | | | | | | | | | | | | | | | F/ | 40 | | | | | | | | | | | | | | |

Alpha Z = 7 = Seven; Alpha I or i = 1 = One; Alpha O = Ø = Zero; Alpha S = 5 = Two

International Geosystems Corporation — Geologic System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DEN 6802 W1002 — PRJ WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK — PAGE 14 OF 16

Survey Data: TURN PT / ODD a Collar — FROM (Meters) — TO — MT/FT: FT — TOTAL DEPTH/LENGTH — AZM (Clockwise from True N) — V-ANG (Neg is Down) — HASH TOTAL (Not including any blank fields) — NORTHING (Neg is South) — EASTING (Neg is West) — ELEVATION (Neg is Sub-Sea)

Upper Tier Geodata: FLAG (NAM / SCL) — Unit of Recov — Unit of Length: FT — RECOVERY — %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI — MA AZ — BO CP CC

Lower Tier Geodata: FLAG (NAM / SCL) — AS or F — Unit of RQD: %RQD — RQD — L/F — SI CL EP — TE PY — MT MO

GRAPHIC

| | FROM | TO | SAMPLE NO. | INT. | |
|---|---|---|---|---|---|
| N1 | 45.7 | 46.0 | | 2 cm | MA INCREASING DOWN INTERVAL |
| AN1 | 45.1 | 45.63 | | 2 cm | P1 C. |
| F/ | 45.7 | | | | F/ 42 F/ |
| N2 | 55.3 | 46.0 | | 1 cm | 3+ D* C. |
| P | 46.0 | 47.0 | | 1 cm | 67% 1.4/1.3 2) D– c. |
| N1 | 46.02 | 46.08 | | 1 fm | D. |
| F/ | 46.25 | | | | H2 |
| F/ | 46.27 | | | | F/ 35 F/ 55 |
| F/ | 46.33 | 46.36 | | GOUGE | F/ |
| F/ | 46.31 | | | | F/ 58 |
| AP | 46.08 | 46.27 | | | SOFT – ALTERED A FEW HB AND BI LEFT |
| AP | 46.27 | 46.62 | | | C* 2=2= 3* 3*3) D. |
| SW/ | 46.53 | 46.62 | | | SH/ 18 |
| AP | 46.62 | 46.94 | | | INCREASING HB AND BI VISIBLE EO/ 40 P1 3+ P) |
| R | 46.27 | 46.94 | | | SECTION HAS A GREASY FEEL – SOFTISH, GREENISH COLOUR |
| R | | | | | MAY BE LARGE SHEAR ZONE OR AT LEAST SHEARED IN PART |
| R | | | | | SLICKENSIDES ALSO ALONG FOLIATION |
| | 47.0 | 48.0 | | 1 c | H H P2 D( |
| R | 47.22 | 47.5 | | | 38% CORE SMALL FRAGMENTS |
| NL | 47.40 | 47.63 | | 1 c | P1 D– |
| F/ | 47.63 | | | | F/ |
| N2 | 47.63 | 48.00 | | 1 cm | P= D. |
| N3 | 47.63 | 48.00 | | 1 c | P=F) |
| N4 | 47.63 | 48.00 | | 8 cm | 3+ D. |

Z = Alpha Z; Y = Alpha Y; Ø = Alpha O; 7 = Seven; 2 = Two; 1 = One; 0 = Zero; S = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity Data | Flag | Format Version | Identity of Project | ID of Drillhole (Prefix–Type–Number) | Page | Of |
|---|---|---|---|---|---|---|
| I | DEN | 680202 | W1002 | 1–47–91 | 15 | 16 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | WILLIAMS CREEK | | |

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI HE BI — MA AZ BO CP CC

Lower Tier Geodata: %RQD — L/F — SI CL EP — TE PY MT MO

| Line | Key | Flag | From | To | Sample No. / %REC | Int. / Rock | Comments | Fracture | Struct | Dip | Alt. (KF col.) | Alt. (LI col.) | Alt. (MA col.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | K | F/ | 4773 | | | | | | F/ | 34 | | | |
| 2 | / | AN4 | 4767 | 4771 | | | | | | | H= | | |
| 3 | L | | | | | | | | | | | | |
| 4 | / | P | 480 | 490 | | 1em | POSSIBLY 1e AND | H H | | | | | D1 P* |
| 5 | L | | | | 27% | | OTHER UNITS | H | | | | | C/ |
| 6 | / | M1 | 480 | 4804 | | 1em | | | | | | D1 | D• |
| 7 | L | | | | | | | | | | | | |
| 8 | K | SH/ | 4804 | | | | | | SH | 27 | | | |
| 9 | R | | 4804 | 4923 | PROBABLE SHEAR ZONE – SOFT AND ALTERED – SIMILAR TO 462.7 – 469.4 FT | | | | | | | | |
| 10 | R | | \ | \ | FRAGMENTS OF PEGMATITE (?), MYLONITIZED – SLICKENSIDES COMMON | | | | | | | | |
| 11 | R | | / | / | SHEARING WITHIN 30° TO CA) | | | | | | | | |
| 12 | R | | \ | \ | ALSO SECTIONS THAT WERE 1c – BI HAS BEEN SERICITIZED | | | | | | | | |
| 13 | R | | / | / | ZONE CONTINUES TO 492.3 FT – INCLUDES A FEW SECTIONS OF LITTLE MA | | | | | | | | |
| 14 | R | | \ | \ | AND LESS MYLONITIZATION | | | | | | | | |
| 15 | R | | / | / | ABUNDANT CLAYS | | | | | | | | |
| 16 | / | N2 | 4832 | 4859 | | x 1e | LI DECREASES DOWN | | | | | 2 3 3+ | |
| 17 | L | | | | | | INTERVAL | | | | | | |
| 18 | / | AP | 4859 | 4900 | | x 1em | | H H | | | | P+ 3+ | 2+ F* |
| 19 | L | | | | 28% | | | H | | | | | C/ |
| 20 | / | | 490 | 500 | | 1em | | | | | | P+ 3) | 2) E— |
| 21 | / | | | | | | | | | | | | C/ |
| 22 | K | SH/ | 4903 | 4906 | | GOUGE | | | SH | 68 | | | |
| 23 | / | N3 | 4923 | 4960 | | 63 | CONTACT BETWEEN 3 AND | | | | | C) | |
| 24 | L | | | | | | 1b RUNS NEAR C.A. | | | | | | |
| 25 | / | N4 | 4923 | 4960 | | 4 1bm | CONTACT SHARP BUT | | | | | C) D— | D• |
| 26 | L | | | | | | IRREGULAR | | | | | | |
| 27 | / | P | 490 | 500 | | 1bm | | H H | | | | C— C— | C• |
| 28 | L | | | | 35% | | | H | | | | | |
| 29 | / | N1 | 5046 | 510 | | x 2c | | | C/ | 40 | E— | | |
| 30 | | | | | | | | | | | F• | | |
| 31 | / | N2 | 5073 | 5074 | | x 3 | | | D/ | 15 | | | |
| 32 | L | | | | | | | | | | | | |
| 33 | K | F/ | 5080 | | | | | | F/ | 15 | | | |
| 34 | K | F/ | 5093 | | | | | | F/ | 42 | | | |
| 35 | K | F/ | 5093 | | | | | | F/ | 10 | | | |
| 36 | / | P | 510 | 520 | | 2c | | | | | | | |
| 37 | L | | | | 46% | | | | | | | | |
| 38 | | | | | | | | | | | | | |

1 = Alpha I — 2 = Alpha Z — 7 = Seven — 2 = Two — 1 = One — 0 = Zero — Ø = Alpha O — 5 = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| Identex Data | Survey Data | Upper Tier Geodata | Lower Tier Geodata | GRAPHIC |
|---|---|---|---|---|
| I | S | / | L | A |

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT (OR SUB-PROJECT) (UNIQUE) | ID of DRILLHOLE/TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASST BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 0 2 | | W1002 | | | 1-147-1911 | | | | | | | | | | | | | | | | | | | 1 | 6 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| KEY | TURN G.P.T. 000 at Collar | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM FROM TRUE N | CLOCKWISE | V-ANG | NEG IF DOWN | HASH TOTAL (+1=ID, +AZM, +V-ANG, +N=E, +EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING | NEG IF SOUTH | EASTING | NEG IF WEST | ELEVATION | NEG IF SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | | | | | | |

| KEY | FLAG | RECOVERY | T MOD | Max | ROCK TYPE | TYP/FLYG ANG (TA1) | (TA2) | GAL/AT (QA1) | TEXTURES TX1 | TX2 | GRAIN Fr | CF | COMPS | FRACTURE COUNT | 1 | 2 | STRUCT 1 ID | STRIKE AZM | DIP To Right | DIP To Left | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | SUMMARY EA | MZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | NAM | | | | | | | | | | | | | | | | | | | | | | | | | | |
| / | SCL | %REC | | | | | | | FOLIATION | | | | | S/F | M/F | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC |

| KEY | FLAG | M or F | RQD | AGL Form 2 | ENV | RTQ | Colour | TYP1 | TYP2 | QM1 | TX1 | TX2 | Sh | Rn | Sh | Orc | R | Im | R | SI | STRUCT 2 ID | STRIKE AZM | DIP To Right | DIP To Left | ALTERATION & MINERALIZATION DEFAULT SUITES CL | EP | HZ | Hw Amt | PR | SUMMARY MO | SL | Hw Amt | Hcm | Rcm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | NAM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | SCL | Unit of R.Q.D. | %RQD | | | | | | | | | | | | | | L/F | | | SI | CL | EP | | | TE | PY | MT | MO | | | | | |

| KEY | FLAG | FROM | TO | SAMPLE NO. | INT. | From | To | From | To | From | To | From | To | NASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | HF | | | RECOVERY | SS = Sample Serial No. | | | | | | | | | |

| KEY | FLAG | FROM | TO | RECOVERY | ROCK TYPE | L/F | S/F | M/F | DIP To Right | DIP To Left |
|---|---|---|---|---|---|---|---|---|---|---|
| K | F/ | 5104 | | | | 2.3 1.2 | F/ | | 40 | |
| / | N | 5117 | 5122 | | 3 | .2 | D/ | | 25 | |
| L | | | | | | | | | | |
| / | P | 5201 | 5290 | | 2c | 3.6 .8 | | | | |
| L | | | | 29% | | 0 | | | | |
| K | F/ | 5258 | | | | | F/ | | 57 | |
| | | END | | | | | | | | |

1 = One 2 = Two 7 = Seven Ø = Alpha O I or l = Alpha I Z = Alpha Z S = Alpha S 0 = Zero

International Geosystems Corporation — Geol System — RECOVERY FORM — Geoform

| FLAG | FORMAT VERSION | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE TRAVERSE: PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | GEOLOGGED MM | GEOLOGGED DD | BY | ASST BY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D E N | 6 B 0 2 0 2 | W1002 | 147-91 | | | HQ | | | | | | | | | | | | | | | | | 0 | 01 |
| P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | |

| TURN C PT 000 = Collar | FROM Metres Loc of Feature | TO | MT/FT | TOTAL DEPTH-LENGTH | AZM | CHANGE FROM TRUE N | V-ANG | NEG = DOWN | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = BELOW SURFACE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | FT | | | | | | | | |

| FLAG | RECOVERY | T MOD Metres | ROCK | TYPIFYING CONST TYP1 | TYP2 | GALMAT CMM | TEXTURES TX1 | TX2 | GRAIN Gr | C MP | FRACTURE COUNT | S | Z | STRUCT ID | STRIKE AZ M | DIP Tangent | QZ | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CT | CB | MG | KX | PY | CP | GL | YY | SUMMARY FX | AL | MZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N A M | %REC | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| FLAG | M or F | ROD | ENV | RTQ | Quartz | TML | QML | TX1 | TX2 | Sx | Rx | Sh | h | M | R | LX | STRUCT ID | AZ M | DIP Tangent | KF | MU | CL | EP | HE | How Alt1 | PR | MO | SL | How Alt2 | How Alt3 | How Alt4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N A M | | %REC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRAPHIC

A — Any Zone Flag or Flag = COMPOSITE, MAX or MIN or DOM — RECOVERY — % = Percent symbol — From — To — MASH TOTAL

H — Flag = CCM (from Col 27-68 & SS No. groups)

F — Flag = ANY, whereas H is Line no. 01 only as defined

| From | To | RECOVERY |
|---|---|---|
| | 10 | 20 |
| 10 | 20 | 6 |
| 20 | 30 | 53 |
| 30 | 40 | 46 |
| 40 | 50 | 29 |
| 50 | 60 | 40 |
| 60 | 70 | 37 |
| 70 | 80 | 23 |
| 80 | 90 | 64 |
| 90 | 100 | 61 |
| 100 | 110 | 41 |
| 110 | 120 | 63 |
| 120 | 130 | 57 |
| 130 | 140 | 71 |
| 140 | 150 | 53 |
| 150 | 160 | 51 |
| 160 | 170 | 75 |
| 170 | 180 | 57 |
| 180 | 190 | 53 |
| 190 | 200 | 34 |
| 200 | 210 | 78 |
| 210 | 220 | 52 |
| 220 | 230 | 38 |
| 230 | 240 | 47 |
| 240 | 250 | 38 |
| 250 | 260 | 40 |
| 260 | 270 | 18 |
| 270 | 280 | 14 |
| 280 | 290 | 18 |
| 290 | 300 | 38 |
| 300 | 310 | 38 |
| 310 | 320 | 29 |
| 320 | 330 | 67 |
| 330 | 340 | 15 |
| 340 | 350 | 29 |
| 350 | 360 | 12 |
| 360 | 370 | |

Z = Alpha Z | Y = Alpha Y | Ø = Alpha O | I or 1 = Alpha I | T = Seven | Z = Two | 1 = One | 0 = Zero | S = Alpha S

International Geosy ns Corporation Geolr ystem RECOV ! FORM Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | MM | DD | BY | ASSE BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | D E N | 6 8 0 2 0 2 | | W1002 | 1 | - | 47 - 91 | | | | | | | | | | | | | | | | | | | 0 1 0 2 | |
| I | P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| S | TURN C.P.T 000 = Collar | FROM Marks Loc. of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM (Collar) FROM TRUE N | V-ANG NEG = DOWN | HASH TOTAL (Y + T + TO + AZM + V-ANG + N + E + EL) NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG = SOUTH | EASTING NEG = WEST | ELEVATION NEG = SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | | | | | | | |

| | FLAG | | RECOVERY | T MOD | MIN | ROCK | TYPIFYING MIN (TM) | TYP (TM) | CALMAT (QM) | TEXTURES (TX) | TYP | GRAIN (G) | C | MP | FRACTURE COUNT | Inc Type | Tr | STRUCT I.D | STRUKE AZM | DIP (0–90 from Horiz) | Q2 | B1 | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | XG | XX | PY | CP | GL | YY | SUMMARY Sa | A | MI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| / | N A M | Unit of Recov | %REC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| / | S C L | Unit of Length T > 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| L | FLAG | | M or F | ROD | ACF Form n | ENV | RTQ | Contact | TMX | QMX | TX | TYP | Sx | Rx | Sx | Cx | K | Inc | A | SI | Inc Type | Tr | STRUCT I.D | AZM | DIP (0–90 from Horiz) | K.F. | M.U | CL | EP | HE | How Amt | PR | M.O | SL | How Amt | How Amt | How Amt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | N A M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L | S C L | Unit of ROD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| A | 1 2 3 4 | 5 6 7 8 9 10 | 11 12 13 14 15 16 | 17 18 19 20 21 22 23 | 24 25 26 27 | 28 29 30 31 | 32 33 34 35 | 36 37 38 39 40 41 42 | 43 44 45 46 | 47 48 | 49 50 51 52 53 | 54 55 56 57 58 | 59 60 | 61 62 63 64 | 65 66 | 67 68 69 70 | 71 72 73 74 75 76 | 77 78 79 80 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | GRAPHIC | Any Zone Page or Flag = COMPOSITE, MAX of MIN or 001 – 999 | | RECOVERY | | | | | | | | | | | | | | HASH TOTAL |
| H | | If Flag = COM then (Col 37-38 = 55 No. Groups) | | | From | To | 55 # | From | To | 55 # | From | To | 55 # | From | To | 55 # | From | To |
| F | | Flag = Run, where no is any no. 01-99 as defined | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

| | From | To | RECOVERY |
|---|---|---|---|
| / | 1 1 | 1 6 | 1 0 0 |
| / | 1 6 | 2 6 | 9 8 |
| / | 2 6 | 3 6 | 1 0 0 |
| / | 3 6 | 4 6 | 1 0 0 |
| / | 4 6 | 5 6 | 1 0 0 |
| / | 5 6 | 6 6 | 1 0 0 |
| / | 6 6 | 7 6 | 1 0 0 |
| / | 7 6 | 8 6 | 1 0 0 |
| / | 8 6 | 9 6 | 1 0 0 |
| / | 9 6 | 1 0 6 | 1 0 0 |
| / | 1 0 6 | 1 1 6 | 1 0 0 |
| / | 1 1 6 | 1 2 6 | 9 9 |
| / | 1 2 6 | 1 3 6 | 1 0 0 |
| / | 1 3 6 | 1 4 6 | 1 0 0 |
| / | 1 4 6 | 1 5 6 | 1 0 0 |
| / | 1 5 6 | 1 6 6 | 1 0 0 |
| / | 1 6 6 | 1 7 6 | 9 8 |
| / | 1 7 6 | 1 8 6 | 1 0 0 |
| / | 1 8 6 | 1 9 6 | 1 0 0 |
| / | 1 9 6 | 2 0 6 | 9 9 |
| / | 2 0 6 | 2 1 6 | 9 8 |
| / | 2 1 6 | 2 2 6 | 1 0 0 |
| / | 2 2 6 | 2 3 6 | 1 0 0 |
| / | 2 3 6 | 2 4 6 | 1 0 0 |
| / | 2 4 6 | 2 5 6 | 9 9 |
| / | 2 5 6 | 2 6 6 | 1 0 0 |
| / | 2 6 6 | 2 7 6 | 1 0 0 |
| / | 2 7 6 | 2 8 6 | 1 0 0 |
| / | 2 8 6 | 2 9 6 | 1 0 0 |
| / | 2 9 6 | 3 0 6 | 9 9 |
| / | 3 0 6 | 3 1 6 | 1 0 0 |
| / | 3 1 6 | 3 2 5 | 1 0 0 |
| / | 3 2 5 | 3 3 5 | 9 9 |
| / | 3 3 5 | 3 4 5 | 1 0 0 |
| / | 3 4 5 | 3 5 5 | 1 0 0 |
| / | 3 5 5 | 3 6 5 | 1 0 0 |
| / | 3 6 5 | 3 7 5 | 1 0 0 |
| / | 3 7 5 | 3 8 5 | 1 0 0 |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

S = Alpha S 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 1 or I = Alpha I Z = Alpha Z

International Geosy ns Corporation — Geol ystem — RECOV Y FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data — Survey Data — Upper Tier Geodata — Lower Tier Geodata — GRAPHIC

WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK — PAGE 2012

| FROM | TO | RECOVERY | ROCK |
|---|---|---|---|
| 385 | 396 | 100 | |
| 395 | 406 | 100 | |
| 406 | 416 | 99 | |
| 416 | 426 | 100 | |
| 426 | 436 | 100 | |
| 436 | 446 | 100 | |
| 446 | 456 | 100 | |
| 456 | 466 | 100 | |
| 466 | 475 | 93 | |
| 475 | 485 | 98 | |
| 485 | 492 | 98 | |
| 492 | 496 | 93 | |
| 496 | 503 | 97 | |
| 503 | 513 | 99 | |
| 513 | 516 | 98 | |
| 516 | 526 | 100 | |
| 526 | 529 | 99 | |

Unit of Length: FT — Unit of Recov.: %REC — Unit of RQD: —

0 = Zero; 1 = One; 2 = Two; 5 = Alpha 5; 6 = Alpha 6; 7 = Alpha 7; Z = Alpha Z

International Geos ems Corporation — Geo ; System — SA LE FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

Identity Data: FLAG DENB 0202 — IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE): W1002 — ID of DRILLHOLE, TRAVERSE PRE-FIX / TYPE / NUMBER: 147-91 — SIZE OF CORE OR GOT: HQ — GEOLOGGED BY / YY / MM / DD: — ASST BY: — COMPLETED MM / DD: — DRILLING BY: OCINPAC — STARTED YY / MM / DD: — COMPLETED MM / DD: — DRILLING TIME-HRS: — SURVEYED BY: — CO-ORD SYSTEM: — GRID AZIMUTH: — PAGE / OF: 01 / 01

PRJ: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: TURN G.P.T. 000 = Collar — FROM Marks on Feature — TO — MT/FT: FT — TOTAL DEPTH-LENGTH: 247. — COLLARING FROM GRID N: — V-ANG NEG = DOWN: -50. — HASH TOTAL (ALT + TO + AZM + V-ANG + N + S + EL, NOT INCLUDING ANY BLANK FIELDS) — NORTHING NEG = SOUTH — EASTING NEG = WEST — ELEVATION NEG = BELOW SEA LEVEL

Upper Tier Geodata: FLAG NAM / SCL — Unit of Recov — Unit of Length — RECOVERY — T WDD — ROCK — TYP/STRNG MINS TYP1 TYP2 — QAL MAT QM — TEXTURES TX1 TX2 — GRAIN F1 C1 C2 MP3 — FRACTURE COUNT 1 2 — STRUCT ID — STRIKE AZM — DIP Value — Q2 — S1 — ALTERATION & MINERALIZATION DEFAULT SUITES CY CB MC XS PY — SUMMARY Fe Al MN

Lower Tier Geodata: FLAG NAM / SCL — Unit of RQD — Matl — RQD — AGE Form — ENV — RTG — Color — TSH — QML — TX1 TX2 — STRUCT ID — STRIKE AZM — DIP Value — KF — MSU — CL — EP — HE — Hw Alt — PB — MO — SC — Hw Alt — Hw% — Hw%

GRAPHIC — A: Any Zone Flag or Flag A COMposite MAX or MIN of 001 – 999 — H: If Flag = Alpha, Hardness (1=Soft ... 5=Very Hard) — F: Flag = Alpha, Any no. 01-99 at 001 or 101 at 001

| FROM | TO | SAMPLE NO. | INT. | | | | | |
|---|---|---|---|---|---|---|---|---|
| K H/W | | | | | | | | |
| K F/W | | | | | | | | |
| A SAM | | | | | | | | |
| 37.0 | 38.5 | 50365 | 1.5 | 0.02 | <0.01 | <0.002 | <0.01 | |
| 38.5 | 38.9 | 50366 | 0.4 | 0.76 | 0.75 | 0.006 | 0.08 | |
| 38.9 | 39.5 | 50367 | 0.6 | 0.13 | 0.11 | <0.002 | <0.01 | |
| 39.5 | 40.0 | 50368 | 0.5 | 1.12 | 0.83 | 0.010 | 0.15 | |
| 40.0 | 40.3 | 50369 | 0.3 | 1.01 | 0.83 | 0.014 | 0.16 | |
| 40.3 | 40.5 | 50370 | 0.2 | 0.50 | 0.48 | 0.002 | 0.05 | |
| 40.5 | 41.5 | 50371 | 1.0 | 1.77 | 1.63 | 0.012 | 0.09 | |
| 41.5 | 41.8 | 50372 | 0.3 | 0.69 | 0.71 | <0.002 | <0.01 | |
| 41.8 | 42.2 | 50373 | 0.4 | 1.51 | 1.43 | 0.008 | 0.05 | |
| 42.2 | 43.2 | 50374 | 1.0 | 1.32 | 1.24 | 0.012 | 0.15 | |
| 43.2 | 43.5 | 50375 | 0.3 | 0.80 | 0.74 | 0.022 | 0.20 | |
| 43.5 | 44.3 | 50376 | 0.8 | 0.98 | 0.92 | 0.006 | 0.11 | |
| 44.3 | 45.1 | 50377 | 0.8 | 1.09 | 1.00 | 0.012 | 0.15 | |
| 45.1 | 46.0 | 50378 | 0.9 | 1.33 | 1.29 | 0.004 | 0.07 | |
| 46.0 | 46.2 | 50379 | 0.2 | 1.31 | 1.27 | 0.010 | 0.05 | |
| 46.2 | 46.6 | 50380 | 0.4 | 4.70 | 4.55 | 0.032 | 0.33 | |
| 46.6 | 46.9 | 50381 | 0.3 | 3.42 | 3.37 | 0.010 | 0.18 | |
| 46.9 | 47.6 | 50382 | 0.7 | 1.10 | 0.95 | 0.014 | 0.09 | |
| 47.6 | 48.0 | 50383 | 0.4 | 0.81 | 0.76 | 0.034 | 0.18 | |
| 48.0 | 48.3 | 50384 | 0.3 | 4.31 | 4.30 | 0.010 | 0.14 | |
| 48.3 | 48.5 | 50385 | 0.2 | 1.59 | 1.40 | 0.018 | 0.17 | |
| 48.5 | 49.2 | 50386 | 0.7 | 2.60 | 2.49 | 0.008 | 0.15 | |
| 49.2 | 49.6 | 50387 | 0.4 | 0.43 | 0.39 | 0.002 | 0.05 | |
| 49.6 | 50.4 | 50388 | 0.8 | 0.43 | 0.37 | 0.002 | 0.04 | |
| 50.4 | 51.0 | 50389 | 0.6 | 0.01 | <0.01 | <0.002 | <0.01 | |
| 51.0 | 52.0 | 50390 | 1.0 | 0.01 | <0.01 | <0.002 | <0.01 | |

Z = Alpha Z — Y = Alpha Y — X = Alpha X — Y = Seven — Z = Two — 1 = One — 0 = Zero — S = Alpha S

International Geosystems Corporation — Geology System — MAIN FORM — Geoform

| Key | Flag | Format Version | Spec | Identity of Project | ID of Drillhole | Geologged By | Drilling By | Started YY MM DD | Completed MM DD | Co-ord System | Grid Azimuth | Page | Of |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 8 0 2 | 0 2 | W1002 | 151-91 | MHMPP | OLYMPIC | 91 09 15 | 09 16 | GRID | 337. | 01 | 06 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | WILLIAMS CREEK | | | | | | |

| Key | MT/FT | Total Depth/Length | AZM | V-ANG | Northing | Easting | Elevation |
|---|---|---|---|---|---|---|---|
| S | FT | 206. | 247. | -50. | 1900.0 | 99.5 | 2836.4 |

Upper Tier Geodata: %REC, ROCK TYPE, FOLIATION, S/F, M/F, KF, LI, HE, BI, MA, AZ, BO, CP, CC
Lower Tier Geodata: %RQD, L/F, SI, CL, EP, CA, TE, PY, MT, MO
Assay: FROM, TO, SAMPLE NO., INT.

| Line | Key | Flag | From | To | Sample No./Int. | Rock Type | Fracture Count | Struct. ID | Dip | Col 59–60 | Alteration (61–64) | Col 71–72 | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | / | P | 0.00 | 5.00 | | | | | | | | | |
| 3 | / | P | 5.00 | 10.00 | | 2c | 0606 | FO | 60° | | C· | | |
| 4 | L | | | | | | 0.8 | | | | ·o o | D/ | |
| 5 | R | | | | | | | | | | | | PHENOCRYSTS TO 2.5CM; WEAK FRACTURES; 2c-DARK; |
| 7 | / | P | 10.00 | 20.00 | | 2c | 1310 | FO | 50° | | C– | | |
| 8 | L | | | | | | 0.5 | | | P/ | P–C· | D/ | |
| 9 | R | | | | | | | | | | | | 2c-DARK; 17.9-SHEAR-<3MM HE,CY&CA; 20° CORE AXIS. |
| 11 | / | N | 11.80 | 13.20 | | 6 3 | | C/ | 80° | | | | |
| 12 | R | | | | | | | | | | | | WEAK KF & QZ, POORLY DEVELOPED |
| 14 | / | P | 20.00 | 30.00 | | 2c | 0910 | FO | 35° | | F– | | |
| 15 | L | | | | | | 0.5 | | | P/ | oC | D/ | |
| 16 | R | | | | | | | | | | | | UNIT 2c-DARK; |
| 18 | / | N | 25.50 | 27.50 | X | 2c | | | | | | | |
| 19 | L | | | | | | | | | | | | |
| 20 | D | | | | | | | | | | | | UNIT 2c-LEUCO; 25.9-26.50-SHEARS-PALE GREEN 30% CORE AXIS; IN PLACES |
| 21 | R | | | | | | | | | | | | WEAK UNIT 3 |
| 23 | / | P | 30.00 | 40.00 | | 2c | 1506 | FO | 40° | | F– | | |
| 24 | L | | | | | | 0.4 | | | P/ | oC– | D/ | |
| 25 | R | | | | | | | | | | | | |
| 27 | / | N1 | 30.50 | 30.60 | X | 3 | | D/ | 65° | | | | |
| 28 | R | | | | | | | | | | | | WEAK SHEARED; |
| 30 | / | N2 | 33.00 | 34.60 | X | 3 | | | | | | | |
| 31 | L | | | | | | | C/ | 35° | | | | |
| 32 | R | | | | | | | | | | | | TOP 0.6FT-LEUCO UNIT 2c? WITH WEAK KF & QZ; LOWER CONTACT SHEARED |
| 33 | | | | | | | | | | | | | & PARALLEL FOLIATION; |
| 35 | / | N3 | 36.60 | 36.70 | | 3 | | D/ | 65° | | | | |
| 36 | R | | | | | | | | | | | | LOWER CONTACT FAULTED; |

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| FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE/TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|---|
| D E N | 6 8 0 2 0 | 2 | W1002 | 15/-91 | 5 | 6 |

| P R J | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | WILLIAMS CREEK |
|---|---|---|

| MT/FT |
|---|
| FT |

Upper Tier Geodata: Unit of Recov: FT; %REC; ROCK TYPE; FOLIATION; S/F M/F; KF; LI; HE; BI; MA; AZ; BO; CP; CC

Lower Tier Geodata: %RQD; L/F; SI; CL; EP; TE; PY; MT; MO

| Key | Flag | FROM | TO | Sample No. / Rock type / Entries |
|---|---|---|---|---|
| / | N4 | | | E 2c |
| R | | | | TO [illegible] FINE GRA[illegible] |
| R | | | | 37.0 – 40.0 – [illegible] |
| / | P | 40.00 | 50.00 | 2c; 1.2 0.7; FO; 35°; F– |
| L | | | | 0.6; P/; 0.C.; D/ |
| R | | | | PATCHES [illegible] CL, ~30% MED GRAIN FINE GRAINED WITH PEPPER MAFIC |
| | | | | S PATCHES [illegible] FOLIATION; 42.0 – 43.5 – 45 – 1 CM SHEARS – 30 – 40°; |
| / | N1 | 40.00 | 47.10 | 3 2b |
| R | | | | WEAK UNIT 2b – TRANSITIONAL TO UNIT 2c; |
| / | N2 | 47.10 | 50.00 | X 2c? |
| R | | | | LEUCO UNIT 2c? – WITH PATCHES TO 0.2 FT FINE GRAINED PEPPER MAFICS |
| / | P | 50.00 | 60.00 | 2c; 1.3 1.6; FO; 50°; F– |
| L | | | | 0.2; P/; 0.C.; D/ |
| R | | | | HE COMMON ON FRACTURES & INCREASES TOWARDS LOWER CONTACT; |
| / | N1 | 50.00 | 52.00 | X 2c |
| R | | | | LEUCO VARIETY, OCC. PATCH FINE GRAINED ROCK WITH PEPPER MAFICS; |
| / | N2 | 55.00 | 58.00 | X 2c |
| R | | | | LEUCO VARIETY |
| / | P | 60.00 | 70.00 | 2c; 0.6 0.9; FO; 45°; F– |
| L | | | | 0.9; P/; 0.C–; D/ |
| R | | | | 61.0 – 65.9 FT – FAULT ZONE – WEAK – FAIR, PINK ALTERATION. SHEARS 30 – 45° |
| R | | | | COMMON, UP TO 1 CM, MOST 1 – 3 CM WITH HE, CA |
| R | | | | 67.0 – 70.0 – FAULT ZONE – FAIR, SHEARS 5 – 10 MM WITH HE, CA & CRUSHED ROCK |
| R | | | | AV 20 – 55° AV 45° |
| / | N1 | 63.0 | 65.00 | 4 3 |
| R | | | | CONTACTS FRACTURED; |

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ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DEN 6 B 0 2 0 2 — W1002 — 151-91
PRI: WESTERN COPPER HOLDINGS - THERMAL EXPLORATION — WILLIAMS CREEK — PAGE 03 OF 6

Survey Data: TURN G PT GOD = Collar — FROM (Marks Loc of Feature) — TO — MT/FT — TOTAL DEPTH-LENGTH — AZM — V-ANG — NORTHING — EASTING — ELEVATION

Upper Tier Geodata: FLAG NAM SCL — Unit of Recov — Unit of Length — %REC — ROCK TYPE — FOLIATION — S/F M/F — KF LI — HE BI — MA AZ — BO CP CC

Lower Tier Geodata: FLAG NAM SCL — M o/F — Unit of R.Q.D. — %RQD — L/F — SI CL — EP CA — TE PY — MT MO

GRAPHIC

| | FROM | TO | SAMPLE NO. INT. |
|---|---|---|---|
| P | 70.00 | 80.00 | 2c — 1.1 1.3 — FO — 50 — F- — PV — 2b |
| | | | 0.5 |
| | | | TOWARDS CONTACT W/ FRACTURES |
| N1 | 73.0 | 76.00 | X 2c — E 35° — F — 0 — PM — 0 |
| | | | FAULT ZONE AT ASSUMED CONTACT 10-35° AT LOWER CONTACT MAIN |
| | | | BREAK AT LOWER CONTACT 35° PERVASIVE DIV. ALTERATION |
| P | 80.0 | 90.00 | 58% — 2c — 1.3 1.0 — FO — 55° — C — PM — DC — D/ |
| | | | 0.1 |
| N1 | 80.00 | 82.90 | 72bi |
| P | | | PATCHES IN UNIT 2c |
| N2 | 83.30 | 83.60 | X 2c |
| P | | | FINE GRAINED PHENOCRYSTS |
| N3 | 88.30 | 90.0 | X 2 e m — F — D |
| P | 90 | 100 | 38% — 2e m — 1.8 1.9 — 0 — 20 — D — D |
| N1 | 92.1 | 92.8 | X 2c — CLAY ALTERATION OF BIOTITE |
| N2 | 92.9 | 92.98 | X 3 — D/ — 45 — H) |
| P | 100 | 110 | 23% — 2e m — 2.5 3+ .3 — FO/ — 53 — F- — D |
| N1 | 101.0 | 101.9 | X 2c |
| F/ | 102.05 | | F/ — 50 |
| N2 | 102.9 | 104.0 | X 3 |
| N3 | 104.0 | 109.8 | X 1 e m — F(D- — D |

1 = One 2 = Two 3 = Seven 0 = Zero S = Alpha S Ø = Alpha O I or 1 = Alpha I Z = Alpha Z

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILLHOLE: TRAVERSE PRE-FIX | TYPE | NUMBER | SIZE OF CORE OR HOLE | LOGGED YY | MM | DD | BY | ASSY BY | COMPLETED MM | DD | DRILLING BY | STARTED YY | MM | DD | COMPLETED MM | DD | DRILLING TIME HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Identity Data | D E N | 6 B 0 2 0 2 | | W1002 | | | 15/L-97 | | | | | | | | | | | | | | | | | | | | |
| | P R J | WESTERN COPPER HOLDINGS - THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| | TURN OFF DOD=Collar | FROM Marks Loc. of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | A Z M CLOCKWISE FROM TRUE N | V-ANG NEG'D DOWN | MAIN TOTAL a = 1 - 10 = AZM v = V-ANG = N = E = F = (NOT INCLUDING ANY BLANK FIELDS) | NORTHING NEG'D SOUTH | EASTING NEG'D WEST | ELEVATION NEG'D SUB-SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Survey Data | S | 0 | | FT | | | | | | | |

| | FLAG | | | RECOVERY | Tmod Min | CODE ROCK TYPE | TYPIFYING MINS TM1 | TM2 | QUARTZ QM1 | TEXTURES TX1 | TX2 | GRAIN Gr | C | MP | FRACTURE COUNT Y | J | STRUCT ID | STRIKE AZ M | DIP NEG'D UP | Q2 | B1 | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | CP | CL | YY | SUMMARY Fe A | MT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Tier Geodata | N A M | | Unit of Recov. | %REC | | | | | | FOLIATION | | | | | S/F | M/F | | | | KF | LI | HE | BI | | MA | AZ | BO | CP | CC | | |
| | S C S | | Unit of Length F I S H | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | FLAG | | | RQD | ACE Form n | ENV | RTQ | Colour | TM1 | QM1 | TX1 | TX2 | Sz | Rn | Sh | % | Tx | Tz | STRUCT ID | STRIKE AZ M | DIP NEG'D UP | Q2 | B1 | ALTERATION & MINERALIZATION DEFAULT SUITES CL | EP | HE | Hw Amt | PR | MO | SL | Hw Amt | How1 | How2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lower Tier Geodata | L N A M | | M or F | %RQD | | | | | | | | | | | | | L/F | | | | | SI | CL | EP | | | TE | PY | MT | MO | | | |
| | S C L | | Unit of RQD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | FROM | TO | SAMPLE NO. | INT. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| N4 | 1098 | 110 | | | K | 2c | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 110 | 120 | | | | 2c | | | | | | | | | | | 3+ 2.5+ .3 | | | | | | | | | | | | | | | | |
| | | | 81% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N5 | 1133 | 1160 | | | 8 | 1cm | MOST | BO | 113.3-113.5 | | | | | | | | | | | | | D+ | | 3* | | D( | D. | | | | | | |
| | | | | | | | MOST | PO | 115.7-116.0 | | | | | | | | | | | | | | | | | | | | | | | | | |
| N6 | 1133 | 1160 | | | 2 | 1e | | | | | | | | | | | | | | | | D+ | | 3( | | | D( | | | | | |
| N7 | 1160 | 1200 | | | | 1cm | | | | | | | | | | | | | | | | D- | | D. | | | | | | | | |
| N8 | 11600 | 12000 | | | 8 | 1em | | | | | | | | | | | | | | | | D( | | D- | | | | | | | | |
| N9 | 11600 | 12000 | | | 2 | 1m | | | | | | | | | | | | | | | | D- | | D. | | | | | | | | |
| P | 120 | 130 | | | | 1cm | CP-KBRE | | | | | | | | | | 2.5+ 2.4+ .5+ | | | | | D- | | D. | | | D. | | | | | |
| | | | 13% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N1 | 120 | 1252 | | | | 1fm | | | | | | | | | | | | | | | | D+K | | D. | | | | | | | | |
| N2 | 1252 | 1300 | | | | 2e | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N3 | 1252 | 1300 | | | | 1c | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 1301 | 1410 | | | | 2cm | MAFIC SECTIONS | | | | | | | | | | 3+ 2.5+ .5+ | | | | P+ H) | D- | | D. | | | | | | | | |
| | | | 18% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | CORE QUITE | | 3+ | | BROKEN- UP IN TWO SHORT SECTIONS OF BROKEN CORE | | | | | | | | | | | | | | | F( | | | | | | | | | | | | |
| N1 | | | | | SH/ | | PROBABLE SHEAR BECOMES STRONGLY SERICITIZED | | | | | | | | | | | SH/ | 55 | P+ P) | D* | | | C. C. | | | D. | | | | | | |
| N2 | 1374 | 1380 | | | | | | | | | | | | | | | SH/ | 55 | P) | D* | | | C. Z. | | | | | | | | | |
| AN2 | 1390 | 1394 | | | SH/ | | | | | | | | | | | | F/ | 150 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P | 140 | 150 | | | | 2em | | | | | | | | | | | P.7+ 1.3+ .3 | | | | | 3* | | D. | | | | | | | | |
| | | | 41% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KF/ | 1442 | | | | | | | | | | | | | | | | E/ | 15 | | | | | | | | | | | | | | | |
| KSH/ | 1495 | 1495 | | | | | | | | | | | | | | | SH/ | 10 | | | | J3 | | D- | | | | | | | | |

0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O Tor I = Alpha I Z = Alpha Z S = Alpha S

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

ENTER KEYS IN COL. 1 TO ACTIVATE ENTRIES

Identity Data: DENB 6 B 0 2 0 2 — W1002 — 15/-97 — PRJ: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data

Upper Tier Geodata

Lower Tier Geodata

GRAPHIC

| FLAG | FROM | TO | RECOVERY / RQD | ROCK TYPE | FOLIATION | FRACTURE COUNT | STRUCT ID | STRIKE AZM | DIP | ALTERATION & MINERALIZATION DEFAULTS SUITES | SUMMARY |
|---|---|---|---|---|---|---|---|---|---|---|---|
| /P | 150 | 160 | 23% | 2cm | | 3.5+.8+.4 | | | KF LI | HE BI | MA AZ BO CP CC |
| KF/ | 1545 | | | | | | F/ | | 60 | | |
| KF/ | 1548 | | | | | | F/ | | 58 | | |
| KF/ | 1556 | | | | | | F/ | | 52 | | |
| KF/ | 1568 | | | | | | F/ | | 43 | | |
| KF/ | 1578 | | | | | | F/ | | 10 | | |
| /P | 160 | 170 | 44% | 2cm MAI ASSOCIATED WITH MAKE MAFIC FREGS. | | 2.1 LI | | | EX | 3 EX | D– |
| KF/ | 1647 | | | | | | F/ | | 45 | | |
| /N1 | 160 | 170 | | 1cm | | | | | | 3D | D– |
| R | / | / | KF ENVELOPES TO EP FRACTURE FILLINGS THAT CROSSCUT FOLIATION | | | | | | | | |
| KF/ | 1667 | | | | | | F/ | | 60 | | |
| R | 160 | 170 | EP FRACTURE FILLINGS 50° TO 70° TO C.F. AND CLOSE TO PERPENDICULAR TO FOLIATION | | | | | | | | |
| /P | 170 | 180 | 56% | 2 2cm | | 1.6.9 .1 | | | | 3– | D• |
| /N1 | 170 | 1730 | | 8 1cm | | | | | | 1* | D– |
| KF/ | 1705 | | | | | | F/ | | 32 | F/ | |
| /N2 | 1730 | | | 2cm | | | | | | F– | |
| /N3 | 1745 | 1749 | | x 1cm | | | | | | HH | |
| /N4 | 1749 | 1753 | | x 2cm | | | | | | H– | D– C– |
| KF/W | 1749 | | | | | | | | | H+ | |
| /NS | 1753 | 180 | | x 2cm | CALCITE WITH HEAVY EP FRACTURE FILL | | | | | F– | |
| /D | 180 | 190 | 88% | | | 1.5.8 0 | | | | F– | |
| /AP | 1808 | 1834 | | | | | | | | HH F+ | |
| KF/ | 1808 | | | | | | F/ | | 55 | | |
| KF/ | 1837 | | | | | | F/ | | 60 | | |
| KF/ | 1857 | | | | | | F/ | | 50 | | |

5 = Alpha 5 0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O 1 or I = Alpha I Z = Alpha Z

International Geosystems Corporation — Geolog System — MAIN FORM — Geoform

| Identity | FORMAT VERSION | IDENTITY OF PROJECT | DRILLHOLE / TRAVERSE | PAGE | OF |
|---|---|---|---|---|---|
| D E N | 6 8 0 2 0 2 | W1002 | 15/-91 | 6 | 6 |

P R J: WESTERN COPPER HOLDINGS – THERMAL EXPLORATION — WILLIAMS CREEK

Survey Data: MT/FT: FT

Upper Tier Geodata: %REC | ROCK TYPE | FOLIATION | S/F M/F | KF | LI | HE | BI | MA | AZ | BO | CP | CC

Lower Tier Geodata: %RQD | L/F | SI | CL | EP | TE | PY | MT | MO

| KEY | FLAG | FROM | TO | RECOVERY / RQD | ROCK TYPE | DESCRIPTION | FRACTURES | KF / SI | HE / EP |
|---|---|---|---|---|---|---|---|---|---|
| 1 | P | 190. | 200. | | 2C | KF ENVELOPES ASSOC. | 2.4 / | E ( | F • |
| L | | | | 62% | | WITH EP F | • / | < • | F — |
| 1 | P | 200 | 206 | | 2C | CALCITE F• | 1.5 2.2 | | |
| L | | | | 78% | | | 0 | | |

END

International Geosy[illegible]s Corporation — Geol[illegible]stem — RECOV[illegible]Y FORM — Geoform

ENTER KEYS IN COL 1 TO ACTIVATE ENTRIES

| KEY | FLAG | FORMAT VERSION | SPEC | IDENTITY OF PROJECT OR SUB-PROJECT (UNIQUE) | ID of DRILL HOLE PRE-FIX | TRAVERSE TYPE | TRAVERSE NUMBER | SIZE OF CORE OR HOLE | GEOLOGGED YY | GEOLOGGED MM | GEOLOGGED DD | BY | ASST BY | COMPLETED MM | COMPLETED DD | DRILLING BY | STARTED YY | STARTED MM | STARTED DD | COMPLETED MM | COMPLETED DD | DRILLING TIME-HRS | SURVEYED BY | CO-ORD SYSTEM | GRID AZIMUTH | PAGE | OF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I | DEN | 6 B 0 2 0 2 | | W1002 | 1 | - | 91 | HQ | | | | | | | | | | | | | | | | GRID | 337. | 01 | 02 |
| I | PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION | | | | | | | | | | | | | | WILLIAMS CREEK | | | | | | | | | | | |

| KEY | TURN @ PT 000 in Collar | FROM Nearest Loc of Feature | TO | MT/FT | TOTAL DEPTH/LENGTH | AZM CLOCKWISE FROM TRUE N | V-ANG NEG IF DOWN | HASH TOTAL = FROM + TO + AZM + V-ANG + N + E + EL... NOT INCLUDING ANY BLANK FIELDS | NORTHING NEG IF SOUTH | EASTING NEG IF WEST | ELEVATION NEG IF SUB SEA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| S | | | | FT | 1206. | 247. | -50. | | | | |

| Upper Tier Geodata | FLAG N A M / S C L | Unit of Recov | RECOVERY Tenths Min Max | ROCK | TYP/MIN/ALT FM1 | TYP/MIN/ALT FM2 | DIP/AZM OF FM1 | FEATURES TX1 | TX2 | RX | CX | C:MR | FRACTURE COUNT 1 | 2 | TS | TF | STRUCT ID | STRIKE A2M | DIP Tangent | Q2 | BI | ALTERATION & MINERALIZATION DEFAULT SUITES CY | CB | MG | XX | PY | CP | GL | YY | SUMMARY Fe | Al | Mt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | %REC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Lower Tier Geodata | FLAG N A M / S C L | Unit of RQD | RQD Apply Factor | ENV | RTQ | Comp | YM1 | GM1 | TX1 | TX2 | SK | RX | SG | R | Int | S | Typ | T2 | STRUCT ID | AZ M | DIP Tangent | XF | MU | CL | EP | RE | Hw Alt | PS | MO | SL | Hw Alt | Mdm2 | Mdm1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | %RQD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRAPHIC

Any Zone Flag or Flag = COMposite MAX or MIN or 001 — 999
Flag = COM then CO21-49 = 5 ft. groups
Flag = RQD where an is allowed 01-99 as desired

| | RECOVERY (% sample recovered) From | To | From | To | From | To | From | To | From | To | WASH TOTAL |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | | | | | | | | | | | |

| | From | To | RECOVERY |
|---|---|---|---|
| F | 50 | 110 | 64 |
| F | 100 | 200 | 15 |
| F | 110 | 160 | 68 |
| F | 200 | 300 | 37 |
| F | 160 | 260 | 100 |
| F | 300 | 400 | 39 |
| F | 260 | 360 | 95 |
| F | 400 | 500 | 35 |
| F | 360 | 460 | 95 |
| F | 500 | 600 | 17 |
| F | 460 | 560 | 92 |
| F | 600 | 700 | 31 |
| F | 560 | 660 | 93 |
| F | 700 | 800 | 44 |
| F | 660 | 760 | 95 |
| F | 800 | 900 | / |
| F | 760 | 860 | 94 |
| F | 900 | 1000 | / |
| F | 860 | 960 | 95 |
| F | 1000 | 1100 | / |
| F | 960 | 1040 | 93 |
| F | 1100 | 1200 | / |
| F | 1040 | 1110 | 80 |
| F | 1200 | 1300 | / |
| F | 1110 | 1160 | 74 |
| F | 1300 | 1400 | / |
| F | 1160 | 1260 | 89 |
| F | 1260 | 1360 | 89 |
| F | 1360 | 1460 | 87 |
| F | 1460 | 1560 | 94 |
| F | 1560 | 1660 | 100 |
| F | 1660 | 1760 | 96 |
| F | 1760 | 1860 | 98 |
| F | 1860 | 1960 | 96 |
| F | 1960 | 2060 | 98 |
| F | 1900 | 2000 | 46 |

80' ON IS MINERALIZED. SEE CORE LOGS.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

S = Alpha S · 0 = Zero · 1 = One · 2 = Two · 3 = Three · 4 = Four · 5 = Five · 6 = Six · 7 = Seven · 8 = Eight · 9 = Nine · T = Alpha T · Z = Alpha Z

International Geosy ms Corporation — Geol System — SAI LE FORM — Geoform

| Field | Value |
|---|---|
| DEN Format Version | 6 B 0 2 |
| Spec | 0 2 |
| Identity of Project | W1002 |
| ID of Drillhole | 151-91 |
| Size of Core | HQ |
| PRJ | WESTERN COPPER HOLDINGS – THERMAL EXPLORATION |
| Location | WILLIAMS CREEK |
| MT/FT | FT |
| Total Depth/Length | 208. |
| Page | 01 of 01 |

Upper Tier Geodata: Cu, CuNsul, FAu, Ag
Lower Tier Geodata: %, %, oz/T, oz/T

| Key | Flag | From | To | Sample No. | Int. | Cu (%) | CuNsul (%) | FAu (oz/T) | Ag (oz/T) |
|---|---|---|---|---|---|---|---|---|---|
| K | H/W | | | | | | | | |
| K | F/W | | | | | | | | |
| A | SAM | 80.0 | 88.3 | [illegible] | [illegible] | <0.01 | <0.01 | <0.002 | <0.01 |
| | | 88.3 | 96.0 | [illegible] | [illegible] | 0.27 | 0.23 | 0.004 | 0.05 |
| | | 96.0 | 102.9 | [illegible] | [illegible] | 0.32 | 0.27 | 0.006 | 0.05 |
| | | 102.9 | 104.0 | [illegible] | [illegible] | 0.02 | 0.01 | <0.002 | <0.01 |
| | | 104.0 | 109.8 | 50368[illegible] | [illegible] | 0.25 | 0.22 | 0.004 | 0.04 |
| | | 109.8 | 113.2 | 503682 | 3.4 | 0.10 | 0.07 | <0.002 | 0.02 |
| | | 113.2 | 116.0 | 50368[illegible] | [illegible] | 0.96 | 0.82 | 0.012 | 0.23 |
| | | 116.0 | 125.2 | 503684 | [illegible] | 0.40 | 0.33 | 0.004 | 0.04 |
| | | 125.2 | 130.0 | 50369[illegible] | [illegible] | 0.13 | 0.10 | <0.002 | 0.02 |
| | | 130.0 | 140.0 | 5036[illegible] | [illegible] | 0.21 | 0.18 | <0.002 | 0.02 |
| | | 140.0 | 150.0 | 5036[illegible] | [illegible] | 0.16 | 0.14 | <0.002 | 0.02 |
| | | 150.0 | 160.0 | 5036[illegible] | [illegible] | 0.32 | 0.28 | 0.004 | 0.04 |
| | | 160.0 | 170.0 | 50369[illegible] | 10.0 | 0.30 | 0.27 | 0.004 | 0.04 |
| | | 170.0 | 173.0 | 503[illegible] | 3.0 | 0.77 | 0.67 | 0.010 | 0.10 |
| | | 173.0 | 174.9 | 5036[illegible] | [illegible] | 0.67 | 0.50 | 0.006 | 0.11 |
| | | 174.9 | 180.0 | 5036[illegible] | [illegible] | 0.04 | 0.02 | 0.004 | 0.01 |

0 = Zero 1 = One 2 = Two 7 = Seven Ø = Alpha O I or i = Alpha I Z = Alpha Z S = Alpha S

# APPENDIX 2

## COST STATEMENT INVOICES

~~HH / Williams Cr. Project~~

~~Dale Gorman~~

~~GST~~

For Hugh Q


MAILING ADDRESS:
203-960 Quayside Drive
New Westminster, B.C.
V3M 6G2
Tel: 525-9409

OLYMPIC DRILLING CONSULTING LTD.

SHOP ADDRESS:
7101 Honeyman Street
Delta, B.C.
V4G 1E2
Tel: 946-6411
Fax: 946-7527


AUG. 22/91
CHANGES FAXED TO HUGH AT OLYMPIC THIS AM. HIS INSTRUCTIONS ARE TO PAY THIS ADJUSTED TOTAL + HE WILL DISCUSS DISPUTED HOURS DIRECTLY WITH DALE.
JOAN

INVOICE
#010891

DATE: August 19, 1991

TO: Thermal Exploration Company
11525 Caroline Lane
Nevada City, California
95959

FOR: Surface drilling
Williams Creek Property
Carmaks, Yukon
August 2-15, 1991

Approved
Archer Cathro
Aug 22/91

Approved
RAD
Aug 23/91

Dale -
I have time sheets —
Pay accordingly.

---

| | | |
|---|---|---|
| Drilling | $56,867.00 | |
| Moving and others | ~~7,942.75~~ | 6291.00 |
| Materials | 1,341.45 | |
| | ~~68,151.20~~ | 64499.45 |
| Add: GST - 7% (Reg. #103990347) | ~~4,630.58~~ | 4514.96 |
| | ~~$70,781.78~~ | 69014.41 |

RECEIVED AUG 23 1991

Drilling:

| Hole# | Size | From | To | Footage | Rate | Amount |
|---|---|---|---|---|---|---|
| 1-21-91 | HQ | 0 | 260 | 260 | $20.50 | $ 5,330.00 |
| 1-22-91 | HQ | 0 | 196 | 196 | 20.50 | 4,018.00 |
| 1-23-91 | HQ | 0 | 381 | 381 | 20.50 | 7,810.50 |
| 1-24-91 | HQ | 0 | 566 | 566 | 20.50 | 11,603.00 |
| 1-25-91 | HQ | 0 | 186 | 186 | 20.50 | 3,813.00 |
| 1-26-91 | HQ | 0 | 146 | 146 | 20.50 | 2,993.00 |
| 1-27-91 | HQ | 0 | 186 | 186 | 20.50 | 3,813.00 |
| 1-28-91 | HQ | 0 | 151 | 151 | 20.50 | 3,095.50 |
| 1-29-91 | HQ | 0 | 291 | 291 | 20.50 | 5,965.50 |
| 1-30-91 | HQ | 0 | 411 | 411 | 20.50 | 8,425.50 |
| | | | | 2,774 | | $56,867.00 |

---

Moving and others:

| Date | Memo | Man hrs | Drill hrs | Tractor hrs |
|---|---|---|---|---|
| Aug. ~~4~~ | ~~Setup camp~~ | ~~28.0~~ | ~~0.0~~ | ~~0.0~~ |
| 5 | Move equipment to camp | 52.0 | 0.0 | 10.0 |
| 6 | Move equipment to first drill site | 19.0 | 0.0 | 9.0 |
| 6 | Waterline for first hole (1/2 ONLY) | 30.0 | 0.0 | 0.0 |
| 7 | Waterline for first hole | 25.0 | 0.0 | 0.0 |
| 7 | Move to first drill site | 3.0 | 0.0 | 3.0 |
| 8 | Build drill site | 2.0 | 0.0 | 2.0 |
| 8 | Move to next hole | 4.0 | 0.0 | 2.0 |
| 11 | Build road | 1.5 | 0.0 | 1.5 |
| 11 | Move to next hole | 3.0 | 0.0 | 1.0 |
| 12 | Move to next hole | 4.0 | 0.0 | 2.0 |
| 12 | Stabilize hole | 2.0 | 1.0 | 0.0 |
| 13 | Stabilize hole | 2.0 | 1.0 | 0.0 |
| 13 | Move to next hole | 2.0 | 0.0 | 1.0 |
| 13 | Move to next hole | 4.0 | 0.0 | 2.0 |
| 14 | Level ground for core | 2.0 | 0.0 | 2.0 |
| 15 | Stabilize hole | 4.0 | 2.0 | 0.0 |
| | | 187.5 | 4.0 | ~~35.5~~ |
| | | - 28 | | 34.5 |
| | | - 27.5 | | |
| | | 132.0 | | |

4 HRS TOTAL - PAY 1/2 ONLY

132.0 ~~187.5~~ man hours @ $28.50 per hour — 3762.00 — ~~$ 5,343.75~~

4.0 drill hours @ $28.50 per hour — 114.00

34.5 ~~35.5~~ tractor hours @ $70.00 per hour — 2415.00 — ~~2,485.00~~

6291.00 — ~~$ 7,942.75~~

To Bob Quartermain

MAILING ADDRESS:
203-960 Quayside Drive
New Westminster, B.C.
V3M 6G2
Tel: 525-9409

OLYMPIC DRILLING CONSULTING LTD.

SHOP ADDRESS:
7101 Honeyman Street
Delta, B.C.
V4G 1E2
Tel: 946-8411
Fax: 946-7527

# INVOICE #020991

DATE: September 24, 1991

TO: Thermal Exploration Company
11525 Caroline Lane
Nevada City, California
95959

FOR: Surface drilling
Williams Creek Property
Carmacks, Yukon
September 1-5, 1991

---

| | |
|---|---|
| Drilling | $ 29,148.50 ✓ |
| Moving and others | 283.75 ✓ |
| Materials | 317.45 ✓ |
| Board | 200.00 ✓ |
| | 29,949.70 |
| Add: GST - 7% (Reg. #103990347) | 2,096.48 ✓ |
| | $ 32,046.18 |

Approved Archer, Cathro Sept 30/91

Drilling:

| Hole# | Size | From | To | Footage | Rate | Amount |
|---|---|---|---|---|---|---|
| ~~1-47-91~~ | HQ | 36 | 529 | 493 | $20.50 | $10,106.50 |
| 1-48-91 | HQ | 0 | 248 | 248 | 20.50 | 5,084.00 |
| 1-49-91 | HQ | 0 | 236 | 236 | 20.50 | 4,838.00 |
| 1-50-91 | HQ | 0 | 256 | 256 | 20.50 | 5,248.00 |
| ~~1-51-91~~ | HQ | 0 | 50 | 50 | 20.50 | 1,025.00 |
| ~~1-52-91~~ 51 | HQ | 50 | 196 | 146 | 19.50 | 2,847.00 |
| | | | | 1,429 | | $29,148.50 |

Moving and others:

| Date | Memo | Man hrs | Drill hrs | Tractor hrs |
|---|---|---|---|---|
| Sept. 2 | Second test on hole #1-47-91 | 1.0 | 0.5 | 0.0 |
| 4 | Move to next hole | 3.0 | 0.0 | 1.0 |
| 4 | Second test on hole #1-49-91 | 1.0 | 0.5 | 0.0 |
| 5 | Second test on hole #1-50-91 | 1.0 | 0.5 | 0.0 |
| | | 6.0 | 1.5 | 1.0 |

| | | |
|---|---|---|
| 6.0 man hours | @ $28.50 per hour | $ 171.00 |
| 1.5 drill hours | @ $28.50 per hour | 42.75 |
| 1.0 tractor hours | @ $70.00 per hour | 70.00 |
| | | $ 283.75 |

Materials:

| Quan. | Desc. | Price | Amount |
|---|---|---|---|
| 45 = | Gallons of diesel @ | $2.21 each | $ 99.45 |
| | Adjustment to fuel charged on invoice #010891 - 45 gallons @ | 1.01 each | 45.45 |
| | Freight for additional core boxes | | 138.54 |
| | | | 283.44 |
| | Add: 12% overhead charge | | 34.01 |
| | | | $ 317.45 |

MAILING ADDRESS:
203-960 Quayside Drive
New Westminster, B.C.
V3M 6G2
Tel: 525-9409

OLYMPIC DRILLING CONSULTING LTD.

SHOP ADDRESS:
7101 Honeyman Street
Delta, B.C.
V4G 1E2
Tel: 946-8411
Fax: 946-7527

# INVOICE #030891

DATE: September 6, 1991

TO: Thermal Exploration Company
11525 Caroline Lane
Nevada City, California
95959

FOR: Surface drilling
Williams Creek Property
Carmaks, Yukon
August 16-31, 1991

---

| | | |
|---|---|---|
| Drilling | $111,581.50 | |
| Moving and others | ~~4,052.00~~ | 3539.00 |
| Materials | ~~3,951.10~~ | 64.96 |
| Board | 1,320.00 | |
| | ~~120,904.00~~ | 116,585.46 |
| Add: GST ~ 7% (Reg. #103990347) | ~~8,463.32~~ | 8,155.38 |
| | ~~$129,367.92~~ | 124,660.84 |

& Approved Sept 9/91
Archer Cathro

RECEIVED SEP 10 1991

Drilling:

| Hole# | Size | From | To | Footage | Rate | Amount |
|---|---|---|---|---|---|---|
| 1-30-91 | HQ | 411 | 451 | 40 | $20.50 | $ 820.00 |
| 1-31-91 | HQ | 0 | 186 | 186 | 20.50 | 3,813.00 |
| 1-32-91 | HQ | 0 | 276 | 276 | 20.50 | 5,658.00 |
| 1-33-91 | HQ | 0 | 356 | 356 | 20.50 | 7,298.00 |
| 1-34-91 | HQ | 0 | 256 | 256 | 20.50 | 5,248.00 |
| 1-35-91 | HQ | 0 | 316 | 316 | 20.50 | 6,478.00 |
| 1-36-91 | HQ | 0 | 266 | 266 | 20.50 | 5,453.00 |
| 1-37-91 | HQ | 0 | 351 | 351 | 20.50 | 7,195.50 |
| 1-38-91 | HQ | 0 | 426 | 426 | 20.50 | 8,733.00 |
| 1-39-91 | HQ | 0 | 253 | 253 | 20.50 | 5,186.50 |
| 1-40-91 | HQ | 0 | 256 | 256 | 20.50 | 5,248.00 |
| 1-41-91 | HQ | 0 | 276 | 276 | 20.50 | 5,658.00 |
| 1-42-91 | HQ | 0 | 256 | 256 | 20.50 | 5,248.00 |
| 1-43-91 | HQ | 0 | 455 | 455 | 20.50 | 9,327.50 |
| 1-44-91 | HQ | 0 | 136 | 136 | 20.50 | 2,788.00 |
| 1-45-91 | HQ | 0 | 546 | 546 | 20.50 | 11,193.00 |
| 1-46-91 | HQ | 0 | 756 | 756 | 20.50 | 15,498.00 |
| 1-47-91 | HQ | 0 | 36 | 36 | 20.50 | 738.00 |
| | | | | 5,443 | | $111,581.50 |

Approved Archer Cathro
Sept 9/91

A/I/Olympic

8

MAILING ADDRESS:

203-960 Quayside Drive
New Westminster, B.C.
V3M 6G2
Tel: 525-9409

OLYMPIC DRILLING CONSULTING LTD.

SHOP ADDRESS:

7101 Honeyman Street
Delta, B.C.
V4G 1E2
Tel: 946-8411
Fax: 946-7527

9/30/91 acc/rec.

| VENDOR NO. | | |
|---|---|---|
| ACCT. | DEPT. | AMT. |
| 825 | 818 | 46,854 33 |
| 9800 | — | 3279 81 |
| | | |
| | | |

INVOICE
~~#030991~~

DATE: September 24, 1991

TO: Thermal Exploration Company
11525 Caroline Lane
Nevada City, California
95959

FOR: Surface drilling
Williams Creek Property
Carmacks, Yukon
September 6-15, 1991

---

| | |
|---|---|
| Drilling | $ 41,496.00 |
| Moving and others | 4,290.25 |
| Materials | 508.08 |
| Board | 560.00 |
| | 46,854.33 |
| Add: GST - 7% (Reg. #103990347) | 3,279.81 |
| | $ 50,134.14 |

NOTE: Additional camp costs will be billed at a later date.

Approved Archer, Cathro
Sept 30/91

Drilling:

| Hole# | Size | From | To | Footage | Rate | Amount |
|---|---|---|---|---|---|---|
| ~~1-51-91~~ | HQ | 196 | 206 | 10 | $19.50 | $ 195.00 |
| 1-52-91 | HQ | 0 | 584 | 584 | 19.50 | 11,388.00 |
| 1-53-91 | HQ | 0 | 686 | 686 | 19.50 | 13,377.00 |
| 1-54-91 | HQ | 0 | 206 | 206 | 19.50 | 4,017.00 |
| 1-55-91 | HQ | 0 | 226 | 226 | 19.50 | 4,407.00 |
| 1-56-91 | HQ | 0 | 416 | 416 | 19.50 | 8,112.00 |
| | | | | 2,128 | | $41,496.00 |

Moving and others:

| Date | Memo | Man hrs | Drill hrs | Tractor hrs |
|---|---|---|---|---|
| Sept. 6 | Second test on hole #1-51-91 | 1.0 | 0.5 | 0.0 |
| 6 | Move to next hole | 3.0 | 0.0 | 1.0 |
| 7 | Second and third tests on hole #1-52-91 | 2.0 | 1.0 | 0.0 |
| 9 | Second test on hole #1-53-91 | 1.0 | 0.5 | 0.0 |
| 10 | Second test on hole #1-54-91 | 1.0 | 0.5 | 0.0 |
| 10 | Move to next hole | 3.0 | 0.0 | 1.0 |
| 10 | Second test on hole #1-55-91 | 1.0 | 0.5 | 0.0 |
| 10 | Move to next hole | 3.0 | 0.0 | 1.0 |
| 12 | Second test on hole #1-56-91 | 1.0 | 0.5 | 0.0 |
| 12 | Move equipment to camp | 40.0 | 0.0 | 8.0 |
| 13 | Move equipment from camp to loading point | 37.0 | 0.0 | 11.0 |
| | | 93.0 | 3.5 | 22.0 |

| | | |
|---|---|---|
| 93.0 man hours | @ $28.50 per hour | $ 2,650.50 |
| 3.5 drill hours | @ $28.50 per hour | 99.75 |
| 22.0 tractor hours | @ $70.00 per hour | 1,540.00 |
| | | $ 4,290.25 |