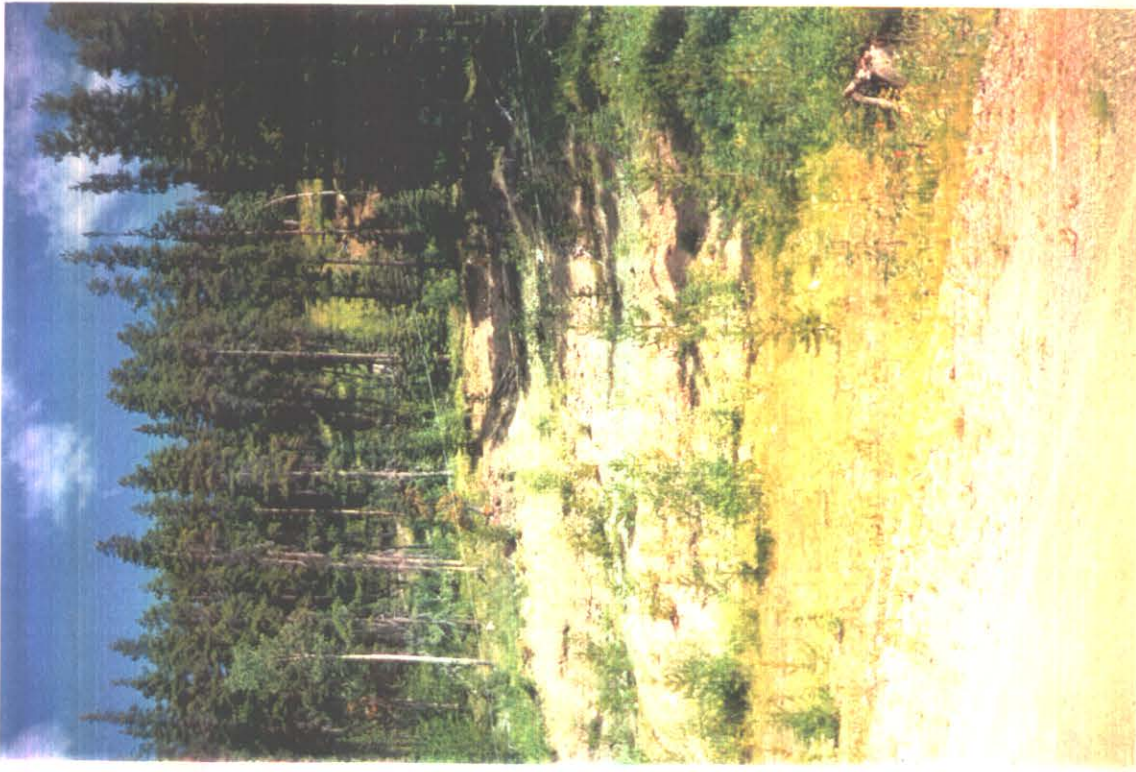


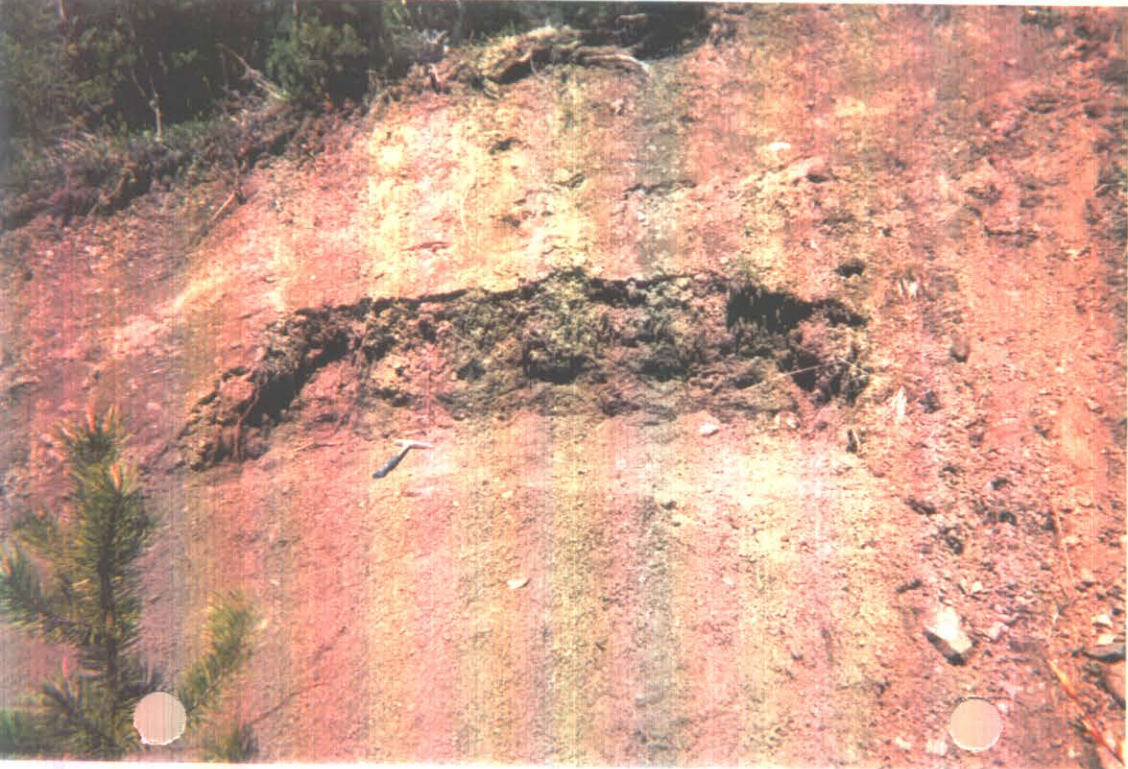
**BRITISH COLUMBIA**  
**PROSPECTORS ASSISTANCE PROGRAM**  
**MINISTRY OF ENERGY AND MINES**  
**GEOLOGICAL SURVEY BRANCH**

PROGRAM YEAR: 1999/2000

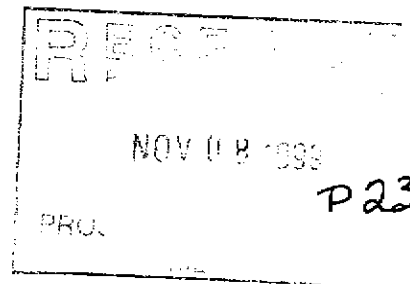
REPORT #: PAP 99-12

NAME: DENNIS SCHAEFER





**British Columbia  
Prospect's Assistance Program  
Prospecting Report (form)**



**Dennis Schaefer**

**Reference#99/2000 P23**

***Location:***

**Lode 1 & Lode 2 mineral claims  
Tenure# 366157 & 366158 respectively  
NTS map 93LOIE Lat 54 degrees Long 125.8  
degrees**

**Claims accessed via gravel road, Maxan Lake main junction at 19.6  
kms with Colleymount main continued for 4.2 kms.**

***Work Performed:***

**As show on map conventional prospecting.**

***Results:***

**A significant amount of precious opal( $\text{SiO}_2\text{Nh}_{20}$ ) was removed  
from this area over the course of the time period, most notable  
was the size of the specimens ranging to 25 grams or 120-125  
carets, approximate value of \$90-\$125 per caret.**

**Report on Firestorm Opal  
for Dennis Shaeffer  
Burns Lake, B.C.**

**Preamble:**

The purpose of this report is to support and substantiate the work done by Dennis Shaeffer on his Prospecting Program Grant working for the 1999 season on his opal claim block.

This report is the result of a two day onsite property visit and examination, as well as the inspection and evaluation of many samples taken from this site.

The evaluation of a gemstone prospect involves somewhat different processes than that of a lode metal prospect. Sampling and assaying techniques used in lode metal properties are not applicable to gem prospects. Evaluation of the quality of the finished product is much more subjective than a grams/tonne lode metal assay. Determination of grade and occurrence require a very intensive sampling of the area, careful recording of all pieces recovered on a data control map and a subsequent evaluation of the finished gemstones relative to the amount of rough material recovered and the work required to recover it. This process takes some amount of time to complete as the final evaluation is public consumption of the finished gemstones (or specimens) and the price that can be realized.

The Firestorm Opal prospect occurs in a facies of the Tertiary lavas which extend from Yukon Alaska through B.C. into Washington, Oregon, Idaho and beyond. These lavas are known to contain agate, opal zeolites, etc. in amygdule infilling throughout. Similar occurrences in these lavas are being prospected and worked by Okanagan opal near Vernon, B.C and in the Whitesail Lake area. These "precious opal" occurrences (as opposed to "common opal") are much fewer in number as the conditions necessary to impart the "play of color" are probably very site specific (not well understood as to why). The discovery of an opal occurrence with precious (play of color) opal, certainly merits an intensive exploration program as the price on the world market for finished stones is considerably higher than gold.

The work done at Firestorm's prospect (trenches and sample pits) has yielded a considerable number of pieces of precious opal in small sizes (5mm - 25mm) with a number of extremely fine larger specimens up to 100 cts (20 gms) and larger. Examination and appraisal of some of these larger pieces indicate a market value in the range of \$50 - \$150 per carat. In comparison, the price of gold equates to about \$3.00 per carat. It is easy to see that a 20 gm (100 ct) piece using the mean average of 100/ct is worth \$10,000 as opposed to the same amount of gold being worth about \$300 Canadian.

My evaluation of this opal is based on many years of involvement in the gem and mineral business, examination of samples by several other knowledgeable people in the gem business and by a comparison with opal on the world market today.

This prospect will require more sampling and prospecting to extend the known zone of the opal bearing facies of this lava. There is no easy way to do this as the standard geochemical and geophysical prospecting methods do not apply. It is only by trenching and pitting, careful inspection and recording, that a prospect of this nature can be evaluated as to its potential production. The cutting and marketing of the finished product is the equivalent of the milling and sale of a lode metal product. This is being carried out by GeoGem Lapidary Services (Canada).

In conclusion, I feel that the Firestorm Opal prospect merits further examination and sampling in view of the promising results from this first season. The benign environmental impact of this type of prospect is also a big plus in its favor in this time of concern for sulphide pollution, milling spills, etc.

A handwritten signature in cursive script that reads "David S. Barclay". The signature is written in black ink and is positioned above the printed name and title.

David S. Barclay  
Accredited Gemologist (C. I. G)

**FireStorm Opal Inventory Solid Stone Only**  
**August 30, 1999**

| <b>Rough Opal</b>                        | <b>Estimate Carets</b> | <b>Estimated Value</b> | <b>Loss Cutting</b> | <b>Estimate Value</b> |
|--|------------------------|------------------------|---------------------|-----------------------|
| <i>Under 5 caret<br/>Solid</i>           | 695                    | \$75.00                | 30%                 | \$3,622.50            |
| <i>Over 5 caret</i>                      | 840                    | \$95.00                | 42%                 | \$46,280.00           |
| <i>Over 15 caret</i>                     | 140                    | \$95.00                | 38%                 | \$8,246.00            |
| <i>Boulder rough</i>                     | 480-600lbs             | -                      | -                   | -                     |
| <i>Specimen Opal<br/>(one of a Kind)</i> | 380<br>6 pieces        | \$150.00               | 0%                  | \$57,000.00           |
| <i>Stones Shipped<br/>to Sri Lanka</i>   | 250 pieces             | Cost<br>\$7/each       | Shipping            |                       |

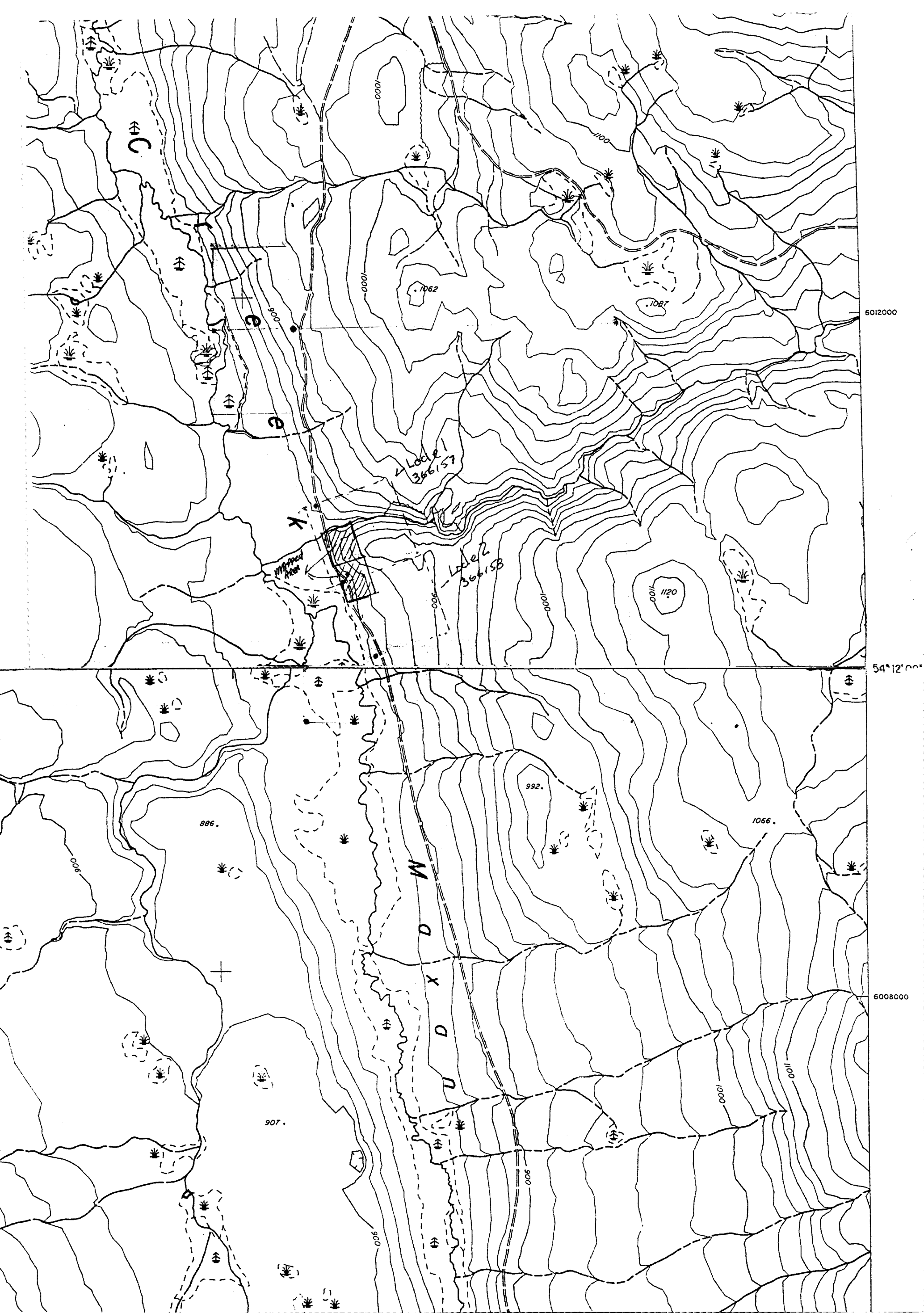
**FireStorm Opal Inventory Solid Stone Only**  
**August 30, 1999**

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| <i>Stones Shipped<br/>to Sri Lanka</i>   | 250 pieces             | Cost<br>\$7/each       | Shipping            |                       |



**Index for Mapping & Gridding**  
**Prepared by Dennis Schaefer**

| <b>Trench#</b> | <b>Precious Opal</b> | <b>Length (metres)</b> | <b>Width (metres)</b> | <b>Depth (metres)</b> | <b>M3</b>    | <b>Dollar Value</b> | <b>Produced Cts/Avg</b> |
|----------------|----------------------|------------------------|-----------------------|-----------------------|--------------|---------------------|-------------------------|
| 1              | X                    | 7.87                   | 5.75                  | 1.06                  | 47.96        | \$2,398.00          | 975                     |
| 2              | x                    | 5.45                   | 4.54                  | 0.6                   | 14.84        | \$742.00            | 850                     |
| 3              | x                    | 6.96                   | 3.03                  | 0.6                   | 12.65        | \$632.50            | 1420                    |
| 4              | 0                    | 2                      | 1.5                   | 1                     | 3            | \$150.00            | 5                       |
| 5              | 0                    | 2.57                   | 2.27                  | 1.36                  | 7.93         | \$396.50            | 0                       |
| 6              | 0                    | 3.33                   | 1.81                  | 1.21                  | 7.25         | \$364.50            | 0                       |
| 7              |                      | 4.24                   | 0.75                  | 1                     | 3.4          | \$170.00            | 0                       |
| <b>Total</b>   |                      |                        |                       |                       | <b>97.07</b> | <b>\$4,853.50</b>   |                         |
| <b>Pit#</b>    |                      |                        |                       |                       |              |                     |                         |
| 1              |                      | 1                      | 1                     | 0.5                   | 0.5          | \$25.00             |                         |
| 2              |                      | 1                      | 1                     | 0.5                   | 0.5          | \$25.00             |                         |
| 3              |                      | 1                      | 1                     | 0.75                  | 0.75         | \$37.50             |                         |
| 4              |                      | 1                      | 1                     | 0.75                  | 0.75         | \$37.50             |                         |
| 5              |                      | 1                      | 1                     | 0.5                   | 0.5          | \$25.00             |                         |
| 6              |                      | 1                      | 1                     | 1                     | 1            | \$50.00             |                         |
| 7              |                      | 1                      | 1                     | 1                     | 1            | \$50.00             |                         |
| <b>Total</b>   |                      |                        |                       |                       | <b>5</b>     | <b>\$250.00</b>     |                         |



6012000

54°12'00"

6008000



SCALE 1:20 000

200 0 200 400 600 800 1000 1200 1400

METRES

M A X A N

± 730

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800

800

900

1000

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995

965

912

900

275

± 837

M

D

X

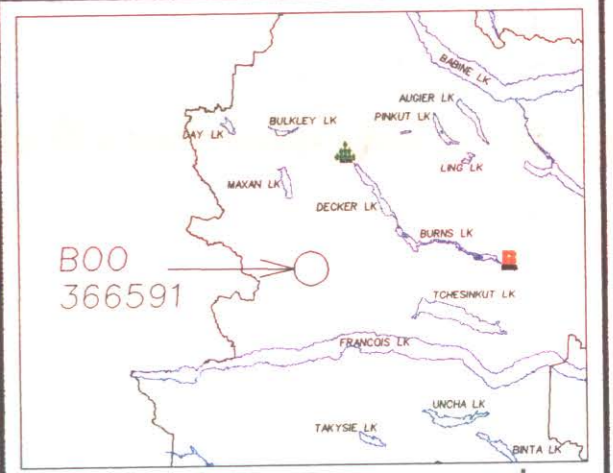
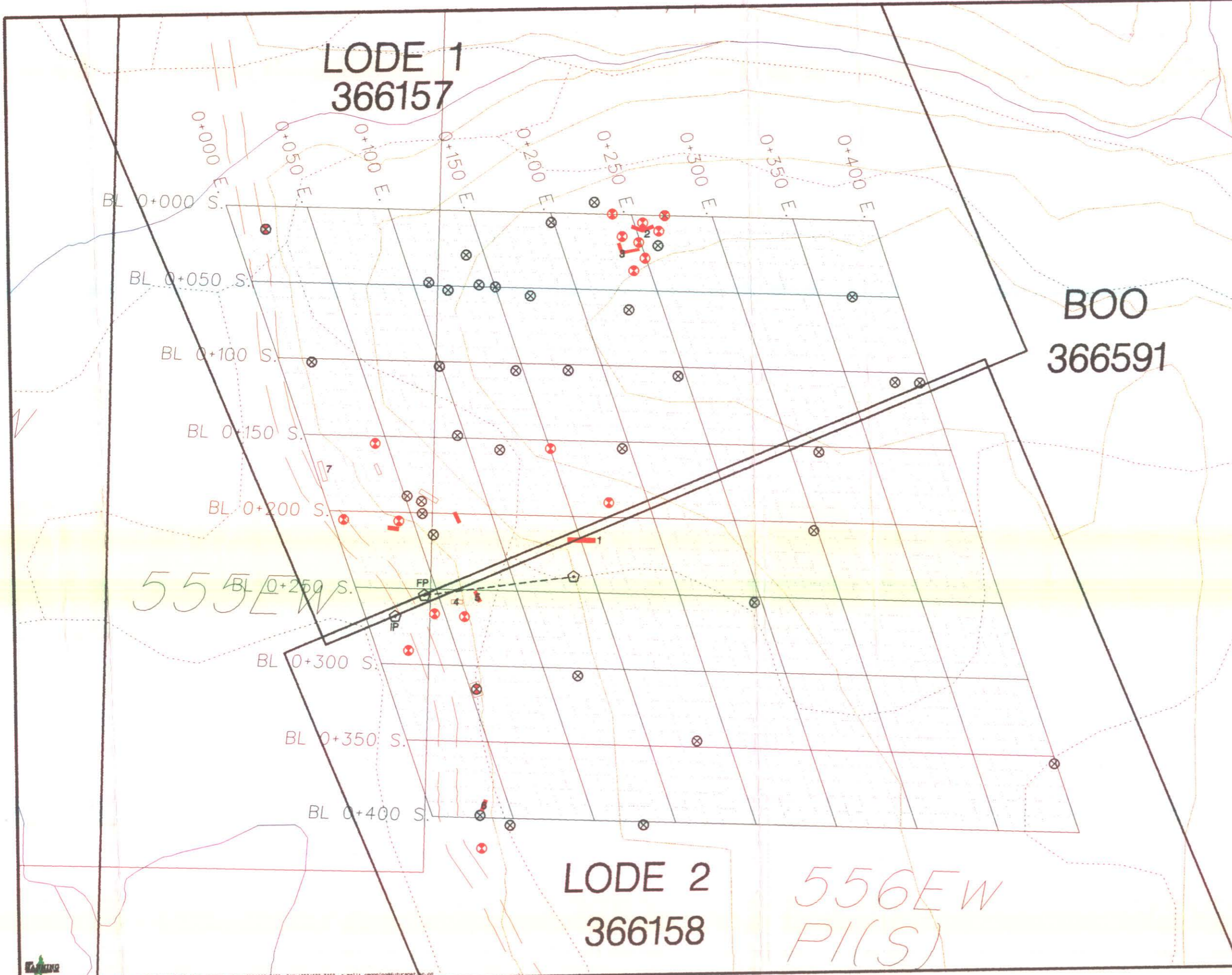
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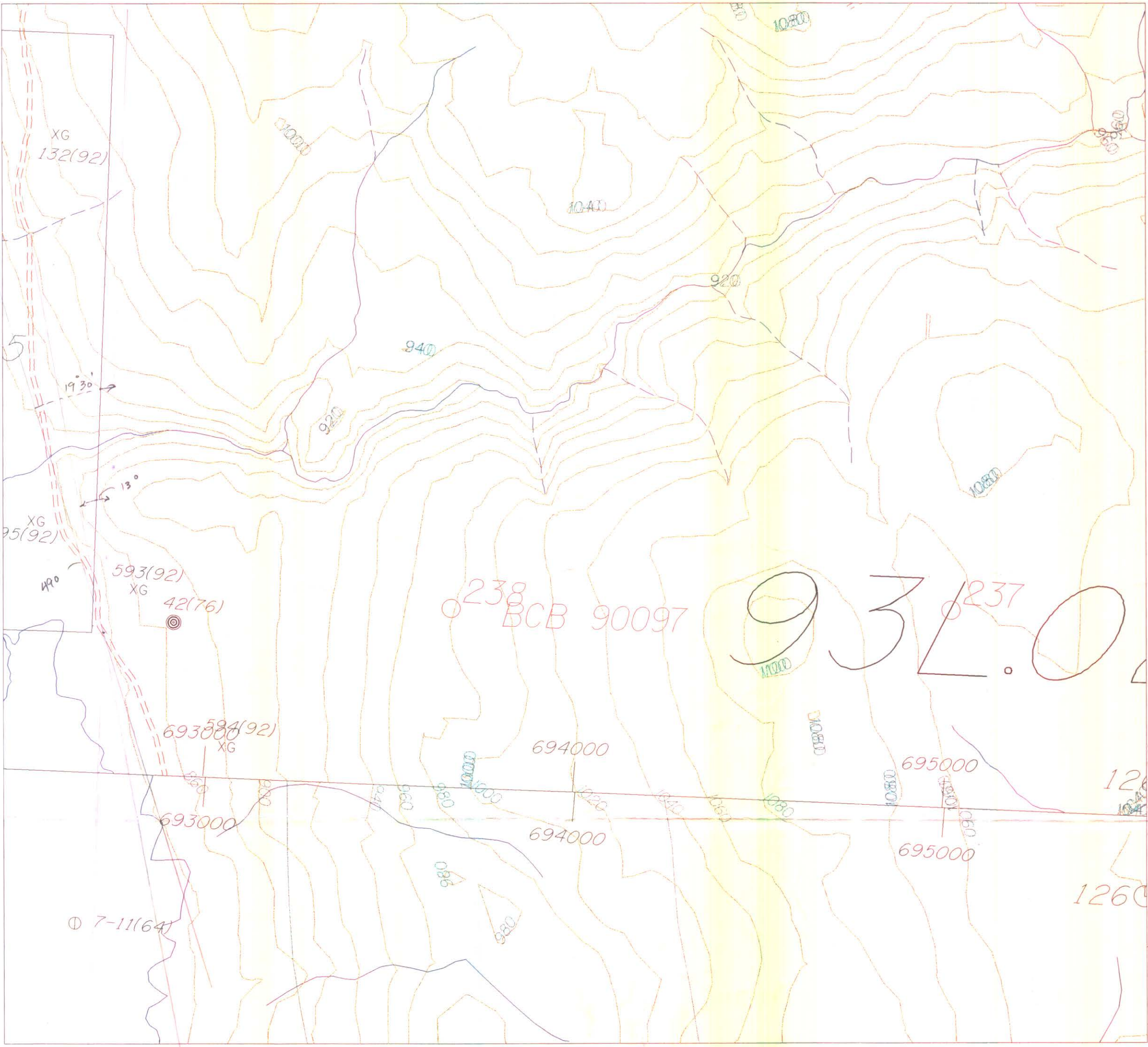
**LEGEND**

| SYMBOL                  | DESCRIPTION                |
|-------------------------|----------------------------|
| [Red line]              | TRENCH PRODUCED            |
| [Black line]            | TRENCH NON-PRODUCER        |
| [Red circle with cross] | FLOAT PRODUCED             |
| [Red circle]            | BASALT OUTCROP FLOAT       |
| [Red circle with dot]   | PIT                        |
| [Red circle with cross] | CABLE CAR & SORTING TABLES |
| [Red circle with cross] | MINERAL CLAIM BOUNDARY     |
| [Red dashed line]       | EXISTING ROAD              |
| [Red dashed line]       | EXISTING LANDING           |
| [Red circle with cross] | AIR PHOTO CENTER           |
| [Red circle with cross] | FOREST COVER POLYGON       |
| [Red circle with cross] | FOREST COVER LABEL         |
| [Blue wavy line]        | LAKE                       |
| [Blue line]             | STREAM                     |
| [Blue dashed line]      | INTERMITTENT STREAM        |
| [Red dashed line]       | CONTOUR LINES              |
| [Red dashed line]       | 1000                       |
| [Red dashed line]       | L.6610                     |
| [Red dashed line]       | DISTRICT LOT LABEL         |
| [Red dashed line]       | INVENTORY REGION BOD.      |
| [Red dashed line]       | COMPARTMENT BOD.           |
| [Red dashed line]       | REGION /COMPARTMENT LABEL  |
| [Red dashed line]       | P.S.V.L. BOUNDARY          |
| [Red dashed line]       | SKID TRAIL                 |
| [Red dashed line]       | PROPOSED ROAD              |
| [Red dashed line]       | PROPOSED SPUR              |
| [Red dashed line]       | PROPOSED TEMP. ACCESS SPUR |
| [Red dashed line]       | PROPOSED LANDING           |
| [Red dashed line]       | TIMBER TYPE BOUNDARY       |
| [Red dashed line]       | TIMBER TYPE LABEL          |
| [Red dashed line]       | MEASURE PLOT               |
| [Red dashed line]       | COUNT PLOT                 |
| [Red dashed line]       | GROUND SLOPE DIRECTION     |
| [Red dashed line]       | 12%                        |
| [Red dashed line]       | DROPOFF                    |
| [Red dashed line]       | SHOP SITE                  |
| [Red dashed line]       | BRIDGE                     |
| [Red dashed line]       | PROPOSED CULVERT           |
| [Red dashed line]       | WETLAND                    |
| [Red dashed line]       | RIPARIAN MANAGEMENT ZONE   |
| [Red dashed line]       | WILDLIFE TREE PATCH        |
| [Red dashed line]       | SPECIAL HARVEST AREA       |
| [Red dashed line]       | RIPARIAN RESERVE ZONE      |
| [Red dashed line]       | MACHINE FREE ZONE          |
| [Red dashed line]       | FOREST HEALTH CONCERNS     |
| [Red dashed line]       | SPECIAL MANAGEMENT ZONE    |

|  |   |  |
|--|---|--|
| <b>Fire Storm Opal</b><br>Dennis & Lois Schaefer<br>Burns Lake, B.C.<br>(250) 692-0072 | MAPSHEET: 062/020, 030<br>DATUM: NAD 83, UTM ZONE 9<br>REVISIONS: | MINERAL CLAIM: BOO 366591<br>MWD DIVISION: OMBCA |
| <b>MAP NAME</b>  |   |  |
| <b>Fire Storm Opal Grid Map</b>  |   |  |
| RECOMMENDED FOR APPROVAL BY:   | DATE: JULY 12, 99   | DRAWING NO.: 1                                   |
| APPROVED BY:   | SCALE: 1:2500   | FILE NO.:  |
|  | SHEET NO.: 1  | OpalGrid.DGN                                     |

99-12 PG 20

1:10,000 Scale



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