# Placer Gold Occurrences in Alberta

W. A. D. Edwards
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## Acknowledgements

I would like to acknowledge the able assistance of Mr. Malcolm Currie and Mr. Anthony Tylipski (1988) and Mr. Dennis Earnshaw and Mr. Richard Cowen (1989) in describing geological sites and collecting samples for analysis. Without their diligence and ability to work independently this study could not have been completed.

# Placer Gold Occurrences in Alberta

## Background on the data base

This data base is a compilation of published information on placer gold in Alberta and new information gathered during 1988 and 1989 by the Alberta Geological Survey. The primary published source of information is Halferdahl (1965), other useful sources are Giusti (1983) and MacGillivray, Sham and Boisvert (1984). All sources are referenced in the data sets. The information is divided into four different geological categories: river (or alluvial) sand and gravel, outwash (glacially derived) sand and gravel, preglacial (ancient river) sand and gravel and bedrock.

I consider the data base to be preliminary because there is undoubtedly more information available which can be added, because such things as sample locations, elevations, etc. from the published information are, in many cases, estimates and because some fields, such as elevation or Lat./Long. are not complete (the DLS coordinates are complete). The attractive aspect of this data set is that you can easily alter the data base for your needs and add additional data.

Your comments and suggestions for expanding and improving this data base are welcomed. In the next year this data base will also be available on disk for use on personnel computers.

## How to use this report and the data base

This report has a set of index maps which show the approximate locations of sample sites. There are single maps for the outwash, preglacial and bedrock sample sites. There is a series of maps for the river sample sites. Each sample site (a number on the river maps, a name on other maps) has a corresponding data card or set.

Following the index maps are the data sets for each sample site. Each data set is arranged as follows:

Name:
The name of the river from which a sample was collected, ie North Saskatchewan River-31, or the general location for preglacial, outwash or bedrock samples, ie Avenir. River sites were numbered consecutively starting from the upstream end.

NTS Area:
The National Topographic System map, 1:50 000 scale, on which the sample site is located.

DLS Coordinates:
The Dominion Land Survey coordinates (Legal Subdivision, Section, Township, Range and Meridian) of the sample site.

Lat./Long.:
The latitude and longitude of the sample site.

Geological Formation and Age:
The formal or informal geological formation name if the unit has one, ie: Cypress Hills Formation; the general genetic classification, ie: outwash or alluvium; and the geological period or epoch (age) of the unit sampled.

Type of Exposure:
The geographical situation of the sample site, ie: river; point bar or (gravel) pit.

Elevation m. (ft.):
The elevation of the sample site in metres and (feet).

Description of Deposit:
If the sample is described in another publication the sample number used in that source will be given here. The source reference will be given in the References field at the bottom of the card. If no source reference is given
the sample number refers to the internal sample reference used by the Alberta Geological Survey during its 1988/89 sampling program.

Chemical Analyses:
Any geochemical analyses or assays done on the sample will be shown in this field. If the sample results were obtained from another publication that source will be indicated and listed in the References field at the bottom of the card. Important aspects of the sample results, such as grain size of the sample, analytical units and number of results reported will be listed.
ie:

assays (b) (3): (assays- type of sample analysis)
(b)- see source reference 'b' at bottom of card)
(3)- number of analytical results reported)

If the results are from the 1988/89 Alberta Geological Survey study no external reference will be given and all geochemical and assay analyses reported are for a pulverized, minus 4 mesh sample.

Note that sample analyses from the various sources are given in different units. These results are reported as given in the original reference and no attempt has been made here to convert to a common unit of measure. All results are for gold unless otherwise indicated.

Mineral Analyses:
Any information on the mechanical separation (panning) or visual observation of gold grains is reported in this field. If the information was obtained from a publication that source will be indicated, if the results are from the 1988/89 Alberta Geological Survey study no external reference will be given.

Physical Tests:
If other tests were performed on the sample sediment, such as grain size or gravel lithology, the nature of the test and the publication reference will be indicated.

References:
The reference of the source of the data will be provided in this field.

## Select definitions:

Alberta Geological Survey:
A department of the Alberta Research Council which conducts geological research and surveys for the province and industry; located at Terrace Plaza, 7 th floor, 4445 Calgary Trail South, Edmonton; telephone: (403) 438-7676; Fax: (403) 438-3364; mailing address: PO Box 8330, Postal Station F, Edmonton, Alberta, T6H 5X2.

Alberta Research Council:
A provincial crown corporation; located at 250 Karl Clark Road, Edmonton; mailing address: PO Box 8330, Postal Station F, Edmonton, Alberta, T6H 5X2.; the Publications and Sales Office distributes geological maps and reports.

Alluvium:
River sand and gravel; sediments deposited by present rivers.

Bedrock:
Sediments, usually consolidated (sandstone, conglomerate and volcanic rock) deposited over 55 million years ago.

Placer gold:
Particles, grains, flakes or nuggets of gold which occur in sand and gravel (unconsolidated sediments) not in bedrock and which can be separated by washing.

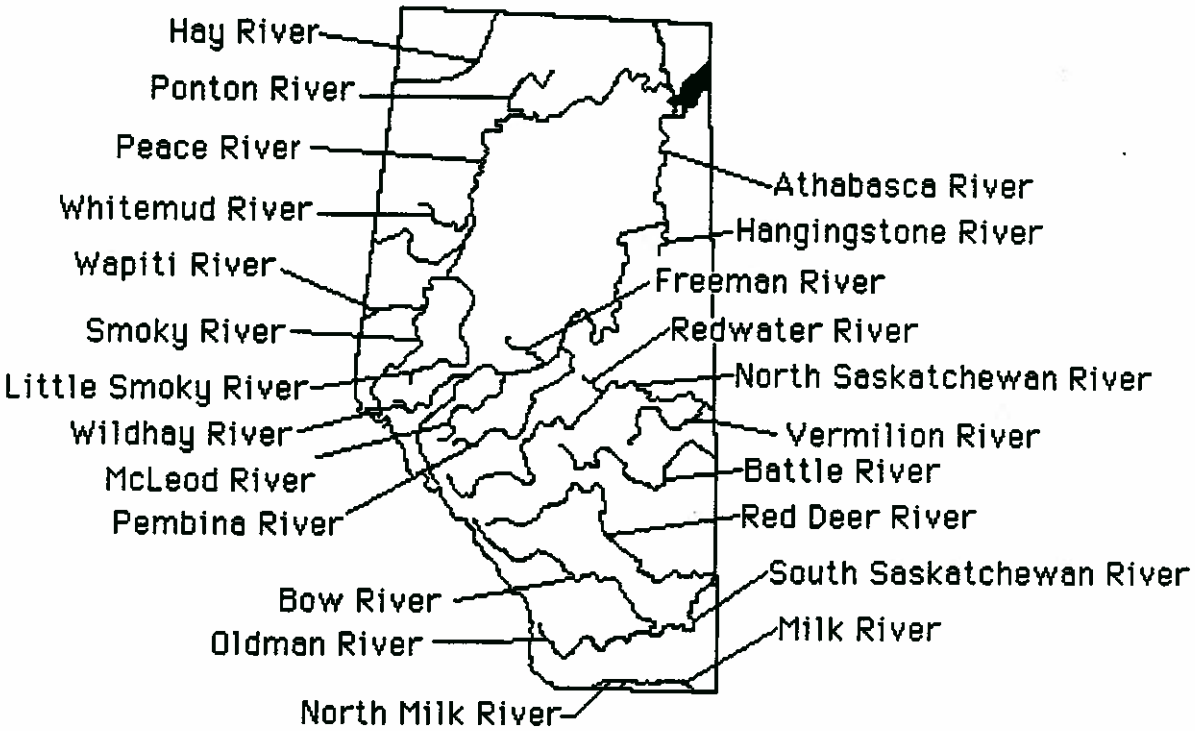
Preglacial:
A relative time term which means before the last continental glaciation; the preglacial time period is very long and may refer to sediments deposited between about 55 million years ago and 25 thousand years ago.

Preglacial sample sites:
Sediments deposited before the last glaciation that have not been eroded away are generally sand and gravel. The sand and gravel was deposited by ancient, not present day rivers, flowing eastward from the mountains. The preglacial materials are highly variable in age (from about 55 million years ago to about 25 thousand years ago) and have a wide range of elevations (from below present river level to the tops of the highest hills on the plains).

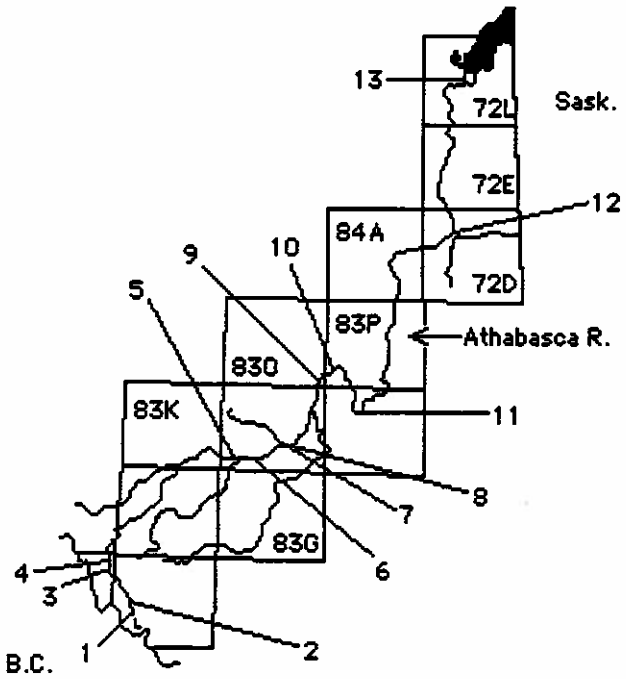
Outwash:
A deposit of sand and gravel formed from glacial meltwaters. These deposits were formed at the end of the last glaciation when the continental ice was melting away.

River sample sites:
Locations on present rivers where sand and gravel was collected for gold analysis.

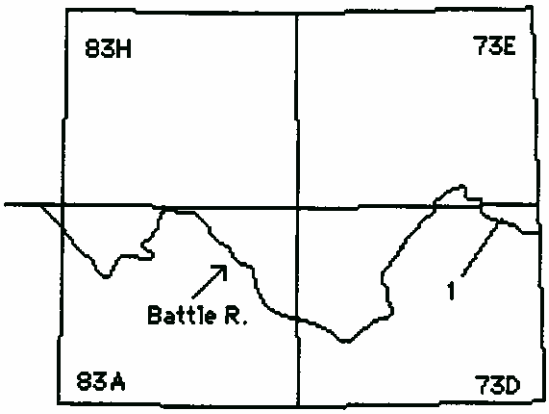
## PLACER GOLD OCCURRENCES- RIVER INDEX



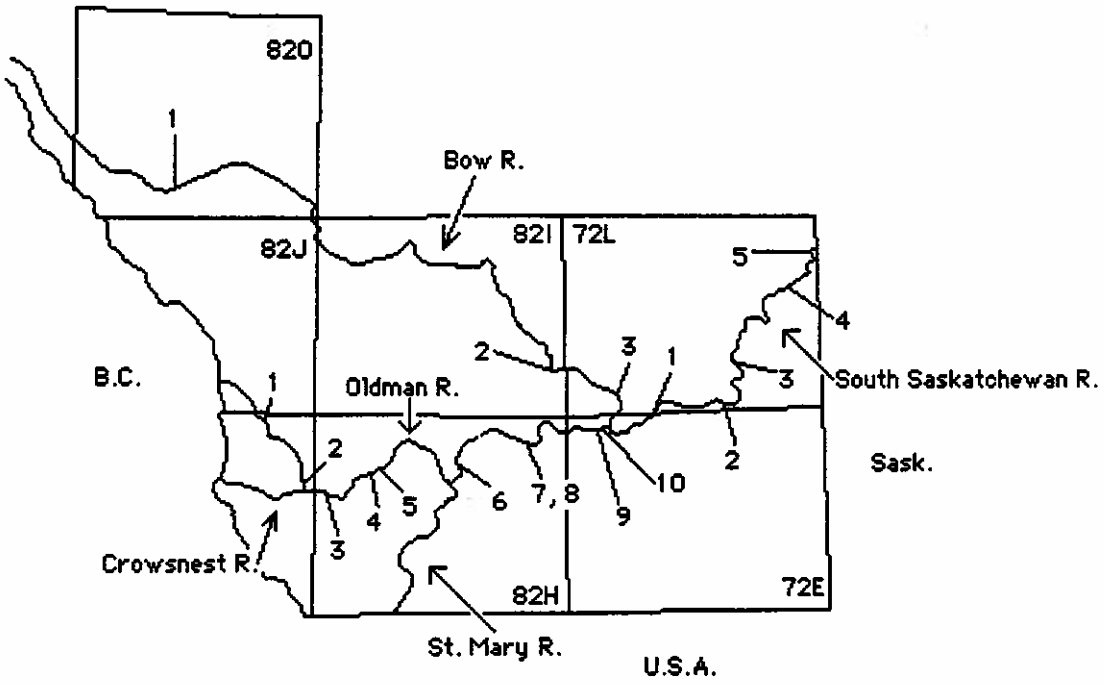

## PLACER GOLD SAMPLE SITES- ATHABASCA RIVER



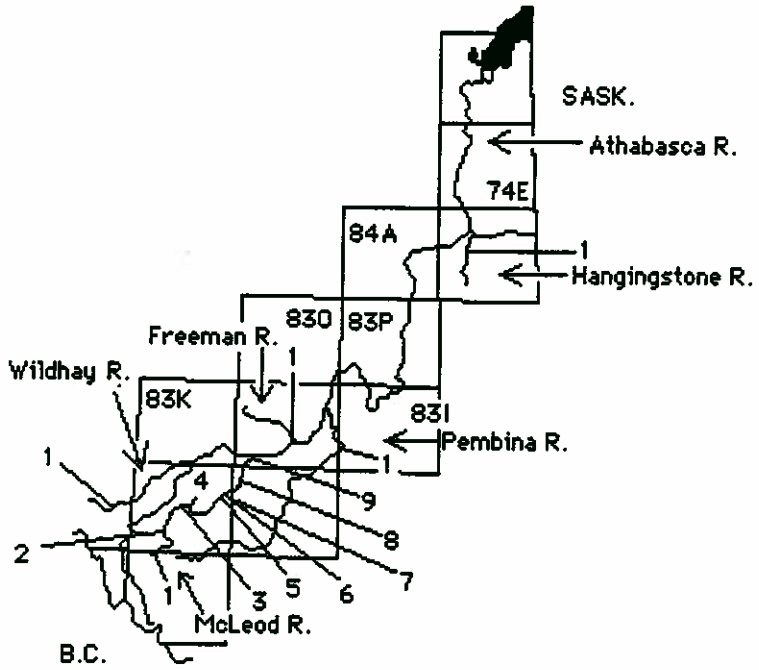
## PLACER GOLD SAMPLE SITES- BATTLE RIVER



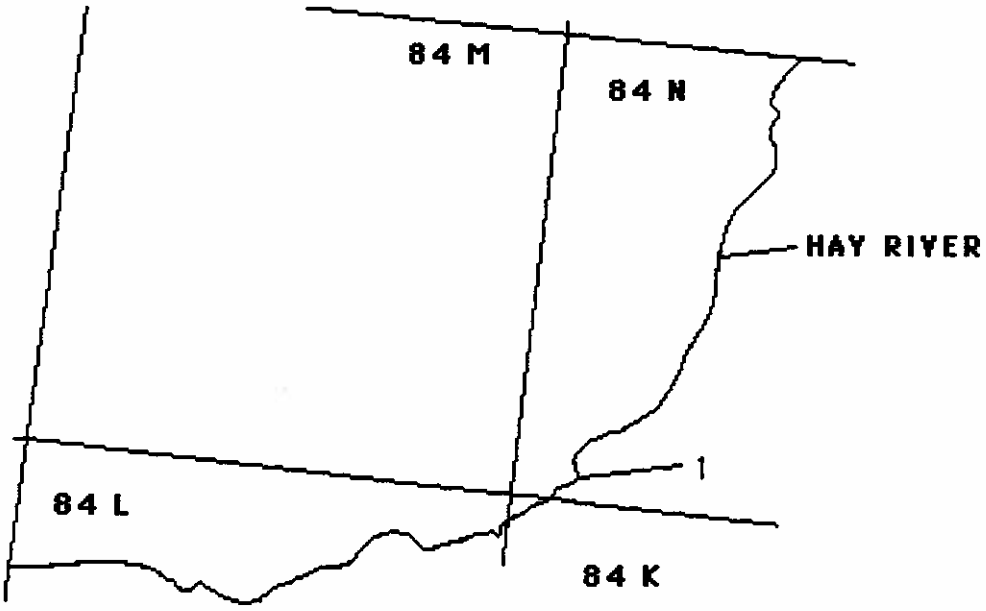

## PLACER GOLD SAMPLE SITES- BOW, OLDMAN AND SOUTH SASKATCHEWAN RIVERS



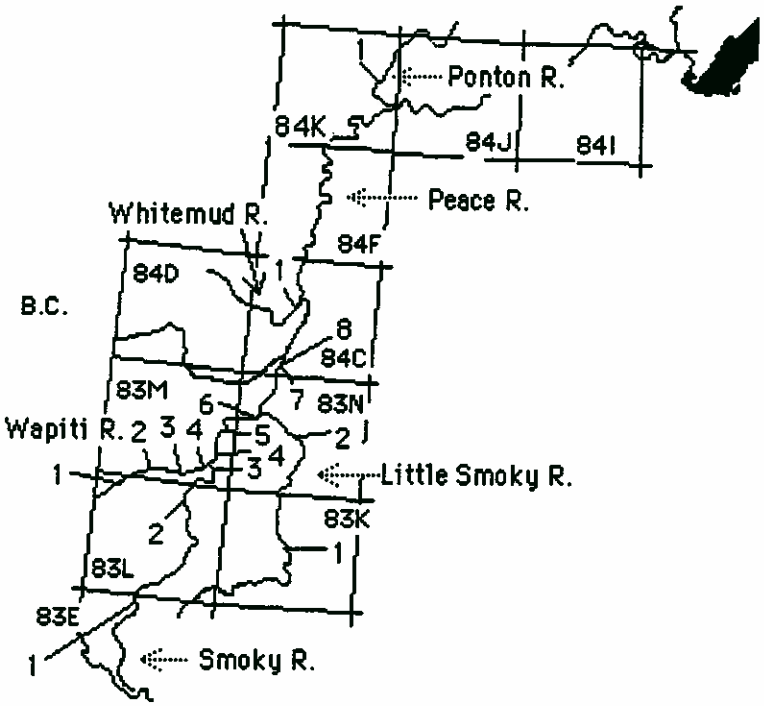
## PLACER GOLD SAMPLE SITES- FREEMAN, HANGINGSTONE, PEMBINA, McLEOD AND WILDHAY RIVERS



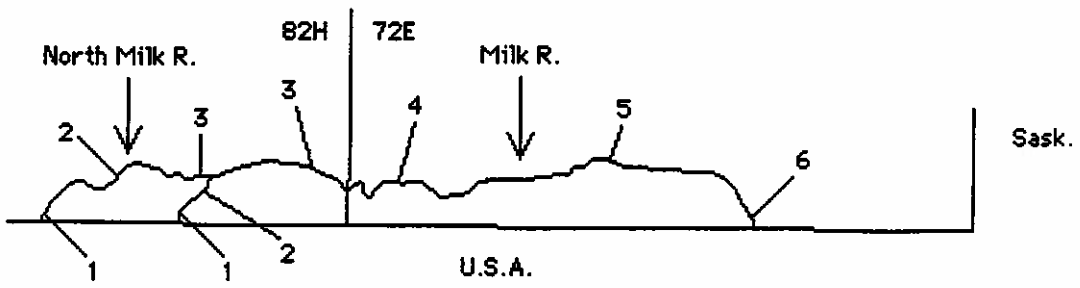

## PLACER GOLD SAMPLE SITES- HAY RIVER



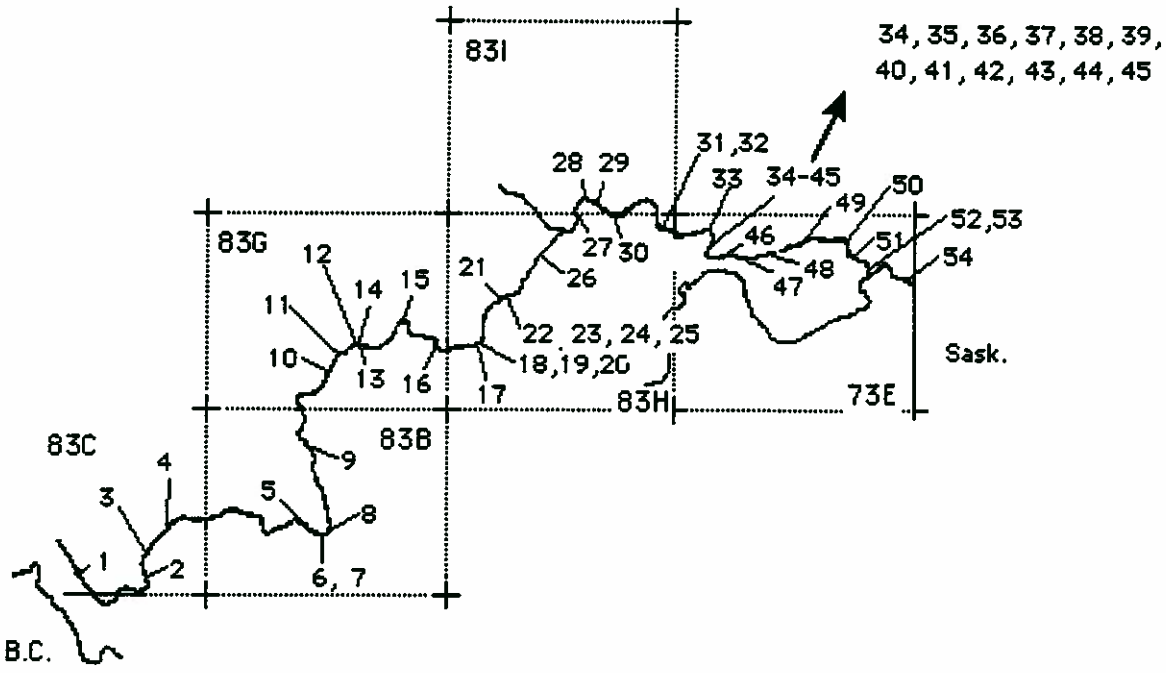
## PLACER GOLD SAMPLE SITES-LITTLE SMOKY, PONTON, SMOKY, WAPITI AND WHITEMUD RIVERS



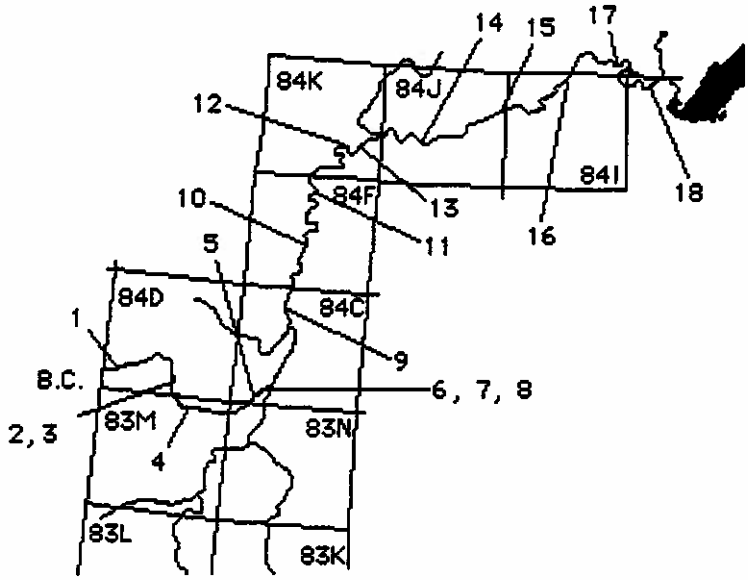

## PLACER GOLD SAMPLE SITES- NORTH MILK AND MILK RIVERS



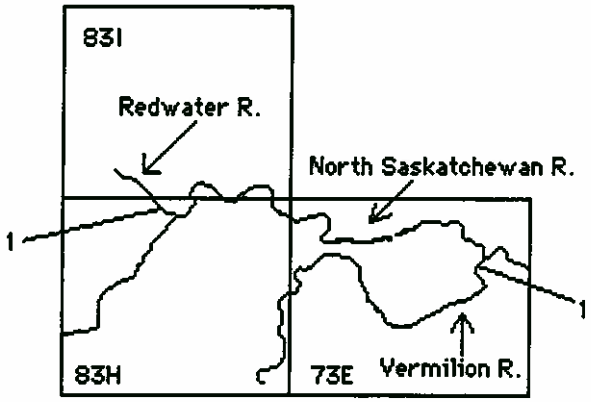
## PLACER GOLD OCCURRENCES- NORTH SASKATCHEWAN RIVER



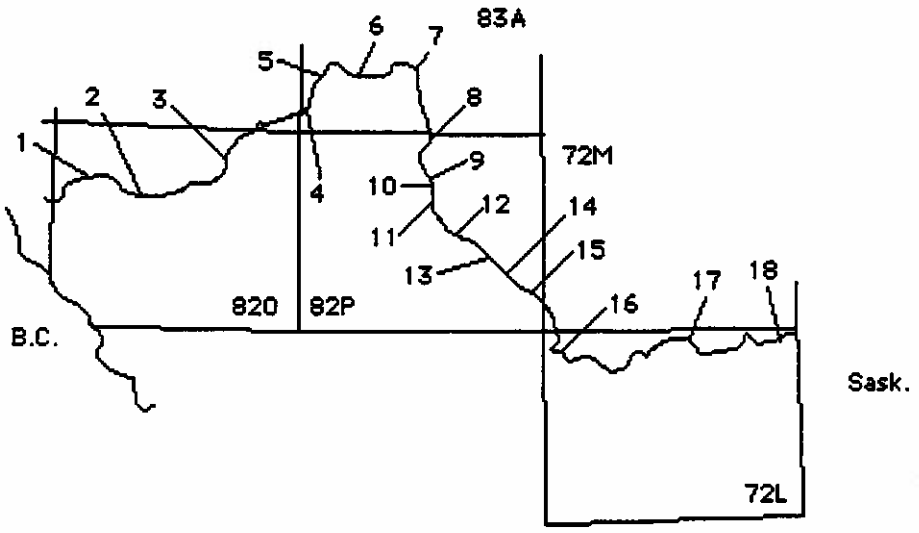

## PLACER GOLD SAMPLE SITES- PEACE RIVER



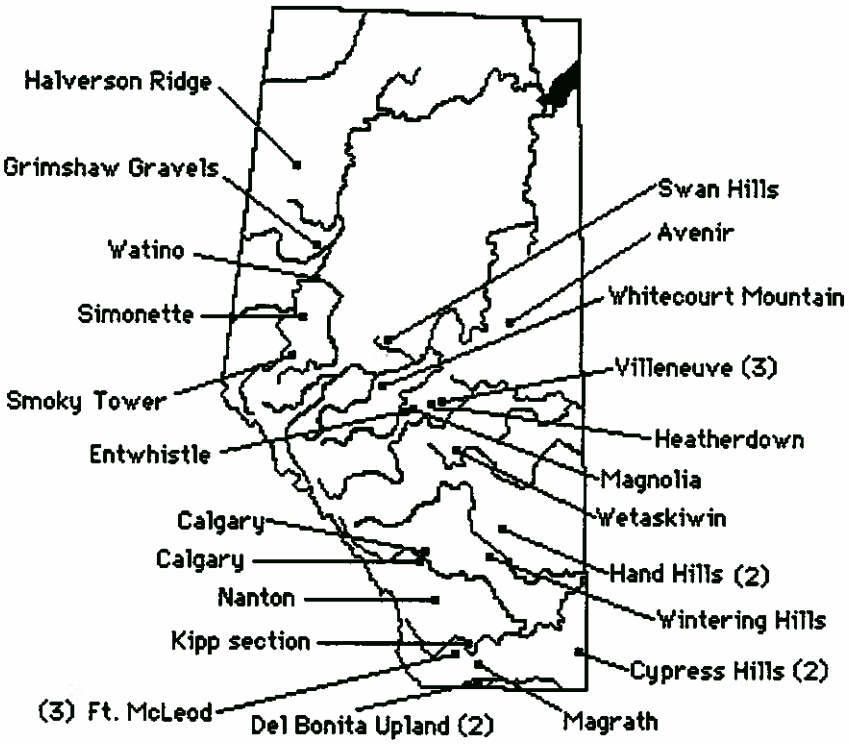
## PLACER GOLD SAMPLE SITES- REDWATER AND VERMILION RIVERS



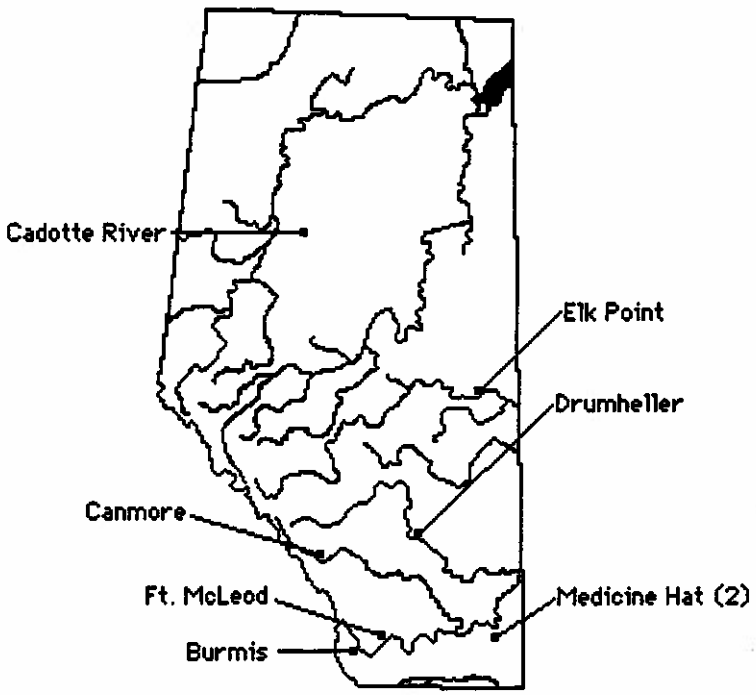

## PLACER GOLD SAMPLE SITES- RED DEER RIVER



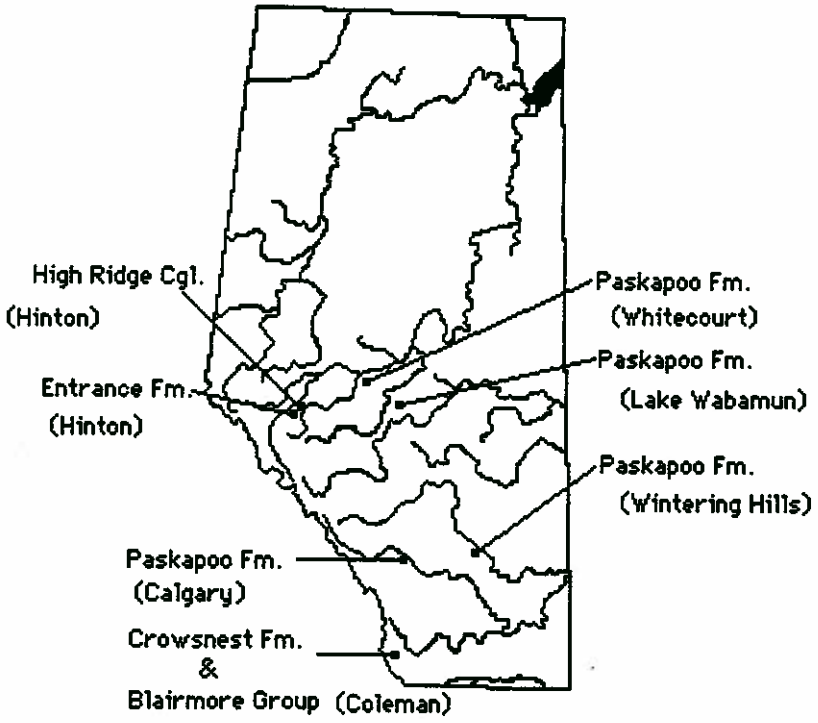
## PLACER GOLD OCCURRENCES- PREGLACIAL SAMPLE SITES




## PLACER GOLD OCCURRENCES- OUTWASH SAMPLE SITES



## PLACER GOLD OCCURRENCES- BEDROCK SAMPLE SITES



# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | Abraham Lake |
| NTS Area: | 83C1 |
| DLS Coordinates: | LSD. 14 Sec. 26 Tp. 37 Rg. 18 W. 5 M. |
| Lat./Long.: | 52-13-15; 116-27-40 |
| Elevation: | 1331 |
| Geological Formation: | outwash; terrace; Pleistocene |
| Type of Exposure: | natural section |
| Description of Deposit: | DE89-8; gravel thickness 6 m. |
| Chemical Analysis: | geochemical analyses (1):<br>1C: nil ppb Au |
| Mineral Analysis: | panned samples (4):<br>1C: nil colours in 4 pans |

| | |
|---|---|
| Name: | Athabasca River-1 |
| NTS Area: | 83C5 |
| DLS Coordinates: | LSD 9 Sec. 10 Tp. 40 Rg. 26 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island, downstream end |
| Description of Deposit: | (a) sample #1; (b) sample #854 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 0.018 mg/cu yd (14.9 cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Athabasca River-2 |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #7 |
| Mineral Analysis: | no gold (1 cu ft sample) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Athabasca River-3 |
| NTS Area: | 83D16 |
| Lat./Long.: | 52-53-40; 118-04-00 |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #6 |
| Mineral Analysis: | no gold (1 cu ft, clay and sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Athabasca River-4 |
| NTS Area: | 83D16 |
| DLS Coordinates: | LSD 7 Sec. 27 Tp. 45 Rg. 1 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #2 ; (b) sample #808 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd<br>60-230 mesh: nil mg/cu yd<br>total: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | Athabasca River-5 |
| NTS Area: | 83J4 |
| DLS Coordinates: | LSD 3 Sec. 3 Tp. 60 Rg. 12 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #4; (b) sample #634 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 0.078 mg/cu yd (17.3 cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Athabasca River-6 |
| NTS Area: | 83J3 |
| DLS Coordinates: | LSD 6 Sec. 2 Tp. 60 Rg. 10 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #5; (b) sample #4 |
| Mineral Analysis: | good coluors, some coarser than usual flour size (2 cu ft, sand, clay and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

| | |
|---|---|
| Name: | Athabasca River-7 |
| NTS Area: | 83J7 |
| DLS Coordinates: | LSD 10 Sec. 35 Tp. 61 Rg. 6 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #4 |
| Mineral Analysis: | no gold (few panfuls, clay) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Athabasca River-8 |
| NTS Area: | 83J7 |
| DLS Coordinates: | LSD 9 Sec. 31 Tp. 61 Rg. 5 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #5; (b) sample #576 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 0.896 mg/cu yd (19.3 cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Athabasca River-9 |
| NTS Area: | 83O1 |
| DLS Coordinates: | LSD 14 Sec. 23 Tp. 71 Rg. 1 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #3; (b) sample #3 |
| Mineral Analysis: | gold present (1 cu ft, moss rich) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | Athabasca River-10 |
| NTS Area: | 83P4 |
| DLS Coordinates: | LSD 4 Sec. 8 Tp. 72 Rg. 25 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island, upstream end |
| Description of Deposit: | (a) sample #6.1; (b) sample #479 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (3.0 cu ft)<br>35-60 mesh: nil mg/cu yd (3.0 cu ft)<br>60-120 mesh: 0.630 mg/cu yd (3.0 cu ft)<br>-120 mesh: 0.630 mg/cu yd (3.0 cu ft)<br>total: 1.260 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Athabasca River-11 |
| NTS Area: | 83I11 |
| DLS Coordinates: | LSD 11 Sec. 21 Tp. 66 Rg. 22 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #2; (b) sample #2 |
| Mineral Analysis: | many colours (3 cu ft, sand and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

| | |
|---|---|
| Name: | Athabasca River-12 |
| NTS Area: | 74D11 |
| DLS Coordinates: | LSD 11 Sec. 20 Tp. 89 Rg. 9 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river, island bar |
| Description of Deposit: | (a) sample #1; (b) sample #1 |
| Mineral Analysis: | some colours (2 cu ft, sand and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

| | |
|---|---|
| Name: | Athabasca River-13 |
| NTS Area: | 74L11 |
| DLS Coordinates: | LSD 8 Sec. 15 Tp. 110 Rg. 7 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island, downstream end |
| Description of Deposit: | (a) sample #10; (b) sample #9 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (4.2 cu ft)<br>-60 mesh: 0.060 mg/cu yd (4.2 cu ft)<br>total: 0.060 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | Avenir |
| NTS Area: | 83P1 |
| DLS Coordinates: | LSD. 16 Sec. 32 Tp. 69 Rg. 15 W. 4 M. |
| Lat./Long.: | 55-01-25; 112-14-45 |
| Elevation: | 576 |
| Geological Formation: | preglacial (a) |
| Type of Exposure: | pit; A.T.&U. |
| Description of Deposit: | DS88-98 and dep. #1094; gravel thickness 3 m. |
| Chemical Analysis: | geochemical analyses (2):<br>1A: nil ppb Au<br>1B: nil ppb Au |
| Mineral Analysis: | panned samples (4):<br>1B: nil colours in 4 pans |
| References: | (a) Scafe D.W., Edwards W.A.D. and Boisvert D.R. 1989. Sand and gravel resources of the Wandering River area. Alberta Research Council contract report, 70 p. |

| | |
|---|---|
| Name: | Battle River-1 |
| NTS Area: | 73D16 |
| DLS Coordinates: | LSD 3 Sec. 12 Tp. 45 Rg. 1 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #8 |
| Mineral Analysis: | no gold (1 cu ft, clay plus sand and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Bow River-1 |
| NTS Area: | 82O3 |
| DLS Coordinates: | LSD. 9 Sec. 21 Tp. 24 Rg. 10 W. 5 M. |
| Lat./Long.: | 51-03-45; 115-15-30 |
| Elevation: | 1301 |
| Geological Formation: | alluvium |
| Type of Exposure: | river bar |
| Description of Deposit: | DE89-15; east Canmore, just upstream from Hwy #1 bridge |
| Chemical Analysis: | geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (25 kg.):<br>1A: nil colours in 25 kg. |

| | |
|---|---|
| Name: | Bow River-2 |
| NTS Area: | 82I1 |
| DLS Coordinates: | LSD 7 Sec. 12 Tp. 15 Rg. 16 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #10; (b) sample #49 |
| Chemical Analysis: | assays (b) ():<br>18-35 mesh: nil mg/cu yd (3.0 cu ft)<br>35-60 mesh: 0.045 mg/cu yd (12.0 cu ft)<br>60-120 mesh: 1.125 mg/cu yd (12.0 cu ft)<br>-120 mesh: 0.631 mg/cu yd (12.0 cu ft)<br>total: 1.801 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Bow River-3 |
| NTS Area: | 72L4 |
| DLS Coordinates: | LSD 9 Sec. 33 Tp. 12 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #12 ; (b) sample #11 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (4.5 cu ft)<br>35-60 mesh: nil mg/cu yd (13.5 cu ft)<br>60-120 mesh: 0.240 mg/cu yd (13.5 cu ft)<br>-120 mesh: 0.500 mg/cu yd (13.5 cu ft)<br>total: 0.740 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Burmis |
| NTS Area: | 82G9 |
| DLS Coordinates: | LSD. 8 Sec. 19 Tp. 7 Rg. 2 W. 5 M. |
| Lat./Long.: | 49-34-30; 114-15-15 |
| Elevation: | 1204 |
| Geological Formation: | outwash; Pleistocene |
| Type of Exposure: | pit; A.T.&U. |
| Description of Deposit: | DE89-13; gravel thickness 2 m. |
| Chemical Analysis: | geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (3):<br>1A: nil colours in 3 pans |

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|---|---|
| Name: | Cadotte River |
| NTS Area: | 84C8 |
| DLS Coordinates: | LSD. 7 Sec. 32 Tp. 86 Rg. 16 W. 5 M. |
| Lat./Long.: | 56-29-55; 116-29-20 |
| Elevation: | 566 |
| Geological Formation: | outwash; Pleistocene |
| Type of Exposure: | pit |
| Description of Deposit: | DS88-73; deposit #1094; gravel thickness 3 m. |
| Chemical Analysis: | geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (4):<br>1A: nil colours in 4 pans |
| References: | (a) Scafe, D.W., Edwards, W.A.D. and Boisvert, D.R. 1989. Sand and gravel resources of the Peace River area. Alberta Research Council Internal Report, 48 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Calgary |
| NTS Area: | 82O1 |
| DLS Coordinates: | LSD. 12 Sec. 23 Tp. 25 Rg. 2 W. 5 M. |
| Lat./Long.: | 51-09-00; 114-10-50 |
| Elevation: | 1257? |
| Geological Formation: | preglacial (a) |
| Type of Exposure: | pit; Standard General |
| Description of Deposit: | DE88-12; |
| Chemical Analysis: | geochemical analyses (3):<br>1988:<br>2B: nil ppb Au<br>3C: nil ppb Au<br>5A: nil ppb Au<br>assay (1):<br>1988:<br>5A: .002 oz/ton |
| Mineral Analysis: | panned samples (9):<br>1988:<br>2B: nil in 2 pans<br>3C: 20 ? colours in 2 pans<br>5A: 1? colour in 5 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Calgary region, NTS 82I,J,O. Alberta Research Council Open File Report 1981-8, 96 p. |

| | |
|---|---|
| Name: | Calgary |
| NTS Area: | 82O1 |
| DLS Coordinates: | LSD. 11 Sec. 29 Tp. 24 Rg. 2 W. 5 M. |
| Lat./Long.: | 51-04-35; 114-15-00 |
| Elevation: | 1257? |
| Geological Formation: | preglacial (a) |
| Type of Exposure: | pit; Burnco |
| Description of Deposit: | DE88-13; behind Olympic site |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>1A: nil ppb Au |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Calgary region, NTS 82I,J,O. Alberta Research Council Open File Report 1981-8, 96 p. |

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|---|---|
| Name: | Calgary |
| NTS Area: | 82O1 |
| DLS Coordinates: | LSD. 11 Sec. 29 Tp. 24 Rg. 2 W. 5 M. |
| Lat./Long.: | 51-04-35; 114-15-00 |
| Elevation: | 1257? |
| Geological Formation: | Paskapoo Formation (a) |
| Type of Exposure: | outcrop (bedrock) |
| Description of Deposit: | DE88-13; access road to Burnco pit, behind Olympic site |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>BR: nil ppb Au |
| References: | (a) Green, R. 1972. Geological map of Alberta. Alberta Research Council map. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Canmore |
| NTS Area: | 82O3 |
| DLS Coordinates: | LSD. 4 Sec. 26 Tp. 24 Rg. 10 W. 5 M. |
| Lat./Long.: | 51-04-17: 115-17-53 |
| Elevation: | 1326 |
| Geological Formation: | outwash; terrace; Pleistocene (a) |
| Type of Exposure: | road cut |
| Description of Deposit: | E76-10; near Burnco pit |
| Chemical Analysis: | geochemical analyses (1):<br>A: nil ppb Au |
| Mineral Analysis: | panned sample (25 kg):<br>A: nil colours in 25 kg. |
| References: | (a) Edwards, W.A.D. 1979. Sand and gravel deposits in the Canmore Corridor area, Alberta. Alberta Research Council Earth Sciences Report 79-2, 30 p. |

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|---|---|
| Name: | Coleman |
| NTS Area: | 82G10 |
| DLS Coordinates: | LSD. 10 Sec. 7 Tp. 8 Rg. 4 W. 5 M. |
| Lat./Long.: | 49-38-10; 114-31-50 |
| Elevation: | 1402 |
| Geological Formation: | Blairmore Group ?; Early Cretaceous (a) |
| Type of Exposure: | road cut |
| Description of Deposit: | DE89-11, road cut between west and central Coleman access on north side Hwy #3; chert and quartz pebble conglomerate |
| Chemical Analysis: | assay (1):<br>5: .002 oz/ton Au |
| References: | (a) Price R.A. 1962. Fernie (east half). Geological Survey of Canada, map 35-1961, scale 1 inch = 4 miles, accompanies G.S.C. Paper 61-24. |

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|---|---|
| Name: | Coleman |
| NTS Area: | 82G10 |
| DLS Coordinates: | LSD. 10 Sec. 7 Tp. 8 Rg. 4 W. 5 M. |
| Lat./Long.: | 49-38-10; 114-32-12 |
| Elevation: | 1365 |
| Geological Formation: | Crowsnest Formation; Early Cretaceous (a) |
| Type of Exposure: | road cut |
| Description of Deposit: | DE89-12; road cut 1 km west Coleman; samples from east (1) to west (4); volcanics |
| Chemical Analysis: | assays (4):<br>1: trace Au<br>2: .002 oz/ton Au<br>3: .004 oz/ton Au<br>4: trace Au |
| References: | (a) Price R.A. 1962. Fernie (east half). Geological Survey of Canada, map 35-1961, scale 1 inch = 4 miles, accompanies G.S.C. Paper 61-24. |

| | |
|---|---|
| Name: | Cypress Hills |
| NTS Area: | 72E9 |
| DLS Coordinates: | LSD. 15 Sec. 7 Tp. 8 Rg. 2 W. 4 M. |
| Lat./Long.: | 49-38-25; 110-15-40 |
| Elevation: | 1440 |
| Geological Formation: | Cypress Hills Formation ; Upper Eocene to Miocene (a) |
| Type of Exposure: | section |
| Description of Deposit: | DE89-2; 6 m. of gravel (1440-1446); road cut south of Elkwater, not one of Leckie and Cheel's sites |
| Chemical Analysis: | geochemical analyses (1):<br>1B: nil ppb Au |
| Mineral Analysis: | panned samples (2):<br>1B: nil in 2 pans |
| Physical Tests: | none |
| References: | (a) Leckie D.A. and Cheel R.J. 1989. The Cypress Hills Formation (Upper Eocene to Miocene): a semi-arid braidplain deposit resulting from intrusive uplift. in prep. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | Cypress Hills |
| NTS Area: | 72E9 |
| DLS Coordinates: | LSD. 12 Sec. 24 Tp. 8 Rg. 2 W. 4 M. |
| Lat./Long.: | 49-39-50; 110-09-40 |
| Elevation: | 1392 |
| Geological Formation: | Cypress Hills Formation (a) |
| Description of Deposit: | DE89-1; 4 m. gravel (1392-1396); Leckie and Cheel site #2 |
| Chemical Analysis: | geochemical analyses (1):<br>1B: 10 ppb Au |
| Mineral Analysis: | panned samples (2):<br>1B: nil in 2 pans |
| Physical Tests: | bulk sample:<br>1C |
| References: | (a) Leckie D.A. and Cheel R.J. 1989. The Cypress Hills Formation (Upper Eocene to Miocene): a semi-arid braidplain deposit resulting from intrusive uplift. in prep. |

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|---|---|
| Name: | Del Bonita |
| NTS Area: | 82H2 |
| DLS Coordinates: | LSD. 9 Sec. 18 Tp. 1 Rg. 21 W. 4 M. |
| Lat./Long.: | 49-02-12; 112-47-20 |
| Elevation: | 1290 |
| Geological Formation: | preglacial (a to f); Pliocene to early Pleistocene (c) |
| Type of Exposure: | pit; Juhasz |
| Description of Deposit: | DE89-3; 9 m. gravel (1290-1999) |
| Chemical Analysis: | geochemical analyses (4):<br>1A: 15 ppb Au<br>1B: 20 ppb Au<br>1C: nil ppb Au<br>1D: nil ppb Au |
| Mineral Analysis: | panned samples (8):<br>1A: 1 colour in 4 pans<br>1D: 1 colour in 4 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Lethbridge area. Alberta Research Council Earth Sciences Report 81-4, 41 p.<br>(b) Shetsen I. 1984. Aggregate resources of the Shanks Lake map area. Alberta Research Council Open File Map 1981-07b.<br>(c) Vonhof J.A. 1969. Tertiary gravels and sands in the Canadian Great Plains. Univ. of Sask. Ph. D. thesis, 279 p.<br>(d) Alden W.C. 1932. Physiography and glacial geology of eastern Montana and adjacent areas. U.S. Geol. Survey Prof. Paper 174, 133 p.<br>(e) Stalker A. MacS. 1961. Buried valleys in central and southern Alberta. Geol. Survey Canada Paper 60-32, 13 p.<br>(f) Stalker A. MacS. 1962. Surficial geology Lethbridge (east half), Alberta. Geol. Survey Canada, Map 41-1962. |

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|---|---|
| Name: | Del Bonita |
| NTS Area: | 82H2 |
| DLS Coordinates: | LSD. 12 Sec. 17 Tp. 1 Rg. 21 W. 4 M. |
| Lat./Long.: | 49-02-30; 112-47-15 |
| Elevation: | 1310 |
| Geological Formation: | preglacial (a to f); Pliocene to early Pleistocene (c) |
| Type of Exposure: | pit; M.D. Cardston #95 |
| Description of Deposit: | DE88-22; gravel thickness 5 m (1310-1315) |
| Chemical Analysis: | geochemical analyses (2):<br>1989:<br>1A: nil ppb Au<br>1988:<br>1A: nil ppb Au<br>assays (1):<br>1988:<br>1A: .002 oz/ton |
| Mineral Analysis: | panned samples (5):<br>1989:<br>1A: 1? colour in 3 pans |

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| | 1988:<br>1A: 1 colour in 2 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Lethbridge area. Alberta Research Council Earth Sciences Report 81-4, 41 p.<br>(b) Shetsen I. 1984. Aggregate resources of the Shanks Lake map area. Alberta Research Council Open File Map 1981-07b.<br>(c) Vonhof J.A. 1969. Tertiary gravels and sands in the Canadian Great Plains. Univ. of Sask. Ph. D. thesis, 279 p.<br>(d) Alden W.C. 1932. Physiography and glacial geology of eastern Montana and adjacent areas. U.S. Geol. Survey Prof. Paper 174, 133 p.<br>(e) Stalker A. MacS. 1961. Buried valleys in central and southern Alberta. Geol. Survey Canada Paper 60-32, 13 p.<br>(f) Stalker A. MacS. 1962. Surficial geology Lethbridge (east half), Alberta. Geol. Survey Canada, Map 41-1962. |
| Name: | Drumheller |
| NTS Area: | 82P7 |
| DLS Coordinates: | LSD. 12 Sec. 12 Tp. 29 Rg. 20 W. 4 M. |
| Lat./Long.: | 51-28-15; 112-42-30 |
| Elevation: | 724 |
| Geological Formation: | outwash; Pleistocene |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-8 |
| Mineral Analysis: | panned sample (75 kg):<br>1A: nil colours in 75 kg. |
| Name: | Elk Point |
| NTS Area: | 73E15 |
| DLS Coordinates: | LSD. 1 Sec. 20 Tp. 56 Rg. 7 W. 4 M. |
| Lat./Long.: | 53-50-55: 110-59-45 |
| Elevation: | 596 |
| Geological Formation: | outwash; Pleistocene |
| Type of Exposure: | pit; St. Paul county pit |
| Description of Deposit: | DE77-72; gravel thickness 13.5 m. |
| Chemical Analysis: | geochemical analyses (1):<br>A: nil ppb Au |
| Mineral Analysis: | panned samples (3):<br>A: nil colours in 3 pans |
| References: | (a) Edwards W.A.D. and Fox J.C. 1980. Sand and gravel resources of the Cold Lake area, Alberta. Alberta Research Council OPen File Report 1980-8, 45 p.<br>(b) Edwards W.A.D. 1980. Sand and gravel resources of the St. Paul and Bonnyville areas, Alberta. Alberta Research Council Open File Report 1980-3, 43 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Entwhistle |
| NTS Area: | 83G10 |
| DLS Coordinates: | LSD. 9 Sec. 17 Tp. 53 Rg. 7 W. 5 M. |
| Lat./Long.: | 53-34-50; 114-59-10 |
| Elevation: | 780? |
| Geological Formation: | Sask. Sands and Gravels (a); Empress Fm. (b); Upland gravels (c) |
| Type of Exposure: | gravel pit |
| Description of Deposit: | DE88-5 |
| Chemical Analysis: | geochemical analyses (4):<br>1988:<br>5A: 10 and 60 ppb Au<br>5B: nil and nil ppb Au<br>5C: 15 ppb Au<br>5D: 10 ppb Au<br>assays (1):<br>1988:<br>5A: .002 oz/ton |
| Mineral Analysis: | panned sample (2):<br>1988:<br>5A: 100+ colours in 2 pans |
| References: | (a) Richardson R.J.H. 1984. Aggregate resources of the Isle Lake map area. Alberta Research Council Open File Map 1984-15j.<br>(b) Andriashek L.D. 1988. Quaternary stratigraphy of the Edmonton map area, NTS 83H. Alberta Research Council Open File Report #198804 , 27 p.<br>(c) Edwards, W.A.Dixon 1984. Geology of some gravel deposits in the Edmonton region, Alberta in The geology of industrial minerals in Canada, CIM Special Vol. 29, p. 219-222. |

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|---|---|
| Name: | Freeman River-1 |
| NTS Area: | 83J7 |
| DLS Coordinates: | LSD 10 Sec. 35 Tp. 61 Rg. 6 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #9 |
| Mineral Analysis: | no gold (few shovelfuls panned) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | Ft. McLeod |
| NTS Area: | 82H11 |
| DLS Coordinates: | LSD. 15 Sec. 10 Tp. 7 Rg. 26 W. 4 M. |
| Lat./Long.: | 49-33-12; 113-26-30 |
| Elevation: | 1122 |
| Geological Formation: | preglacial (a, b) |
| Type of Exposure: | pit |
| Description of Deposit: | DE89-5 and DE88-18; 3.5 m. gravel (1122-1125.5) |
| Chemical Analysis: | geochemical analyses (1):<br>1B: nil ppb Au |
| Mineral Analysis: | panned samples (4):<br>1B: 2? colours in 4 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Lethbridge area. Alberta Research Council Earth Sciences Report 81-4, 41 p.<br>(b) Shetsen I. 1984. Aggregate resources of the Ft. McLeod map area. Alberta Research Council Open File Map 1981-07k. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Ft. McLeod |
| NTS Area: | 82H11 |
| DLS Coordinates: | LSD. 16 Sec. 9 Tp. 9 Rg. 26 W. 4 M. |
| Lat./Long.: | 49-43-30; 113-27-30 |
| Elevation: | 960? |
| Geological Formation: | outwash; Pleistocene (a) |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-17 |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (2):<br>1988:<br>1A: nil colours in 2 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Lethbridge area. Alberta Research Council Earth Sciences Report 81-4, 41 p.<br>(b) Shetsen I. 1984. Aggregate resources of the Ft. McLeod map area. Alberta Research Council Open File Map 1981-07k. |

| | |
|---|---|
| Name: | Ft. McLeod |
| NTS Area: | 82H11 |
| DLS Coordinates: | LSD. 9 Sec. 4 Tp. 7 Rg. 26 W. 4 M. |
| Lat./Long.: | 49-31-55; 113-27-25 |
| Elevation: | 1145 |
| Geological Formation: | preglacial (a) |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-19; gravel thickness 4 m. (1145-1149) |
| Chemical Analysis: | geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (4):<br>1A: 3? colours in 4 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Lethbridge area. Alberta Research Council Earth Sciences Report 81-4, 41 p.<br>(b) Shetsen I. 1984. Aggregate resources of the Ft. McLeod map area. Alberta Research Council Open File Map 1981-07k. |

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|---|---|
| Name: | Ft. McLeod |
| NTS Area: | 82H11 |
| DLS Coordinates: | LSD. 13 Sec. 15 Tp. 7 Rg. 26 W. 4 M. |
| Lat./Long.: | 49-34-00; 113-27-10 |
| Elevation: | 1128? |
| Geological Formation: | preglacial (a) |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-20 |
| Chemical Analysis: | geochemical analyses (2):<br>1988:<br>1A: 10 and 10 ppb Au<br>assays (1):<br>1988:<br>1A: .001 oz/ton Au |
| Mineral Analysis: | panned samples (2):<br>1988:<br>1A: 2 colours in 2 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Lethbridge area. Alberta Research Council Earth Sciences Report 81-4, 41 p.<br>(b) Shetsen I. 1984. Aggregate resources of the Ft. McLeod map area. Alberta Research Council Open File Map 1981-07k. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Grimshaw |
| NTS Area: | 84C4 |
| DLS Coordinates: | LSD. 4 Sec. 32 Tp. 83 Rg. 23 W. 5 M. |
| Lat./Long.: | 56-14-08; 117-36-15 |
| Elevation: | 658 |
| Geological Formation: | preglacial; Grimshaw Gravels (a,b) |
| Type of Exposure: | pit; Wald Brothers pit formerly KTL |
| Description of Deposit: | CM84-9; gravel thickness 10 m. |
| Chemical Analysis: | geochemical analyses (6):<br>1989:<br>1A: 15 ppb Au<br>3E: 15 ppb Au<br>1988:<br>1C: nil ppb Au<br>2D: 5 ppb Au<br>3B: 20 ppb Au<br>4A: 10 ppb Au<br>assays (1):<br>1988:<br>2D: .016 oz/ton |
| Mineral Analysis: | panned samples (11):<br>1989:<br>1A: nil colours in 3 pans<br>3E: nil colours in 3 pans<br>1988:<br>1C: nil colours in 1 pan<br>2D: 3 colours in 2 pans<br>3B: nil colours in 1 pan<br>4A: nil colours in 1 pan |
| References: | (a) Richardson R.J.H. and Sham P.1984. Aggregate resources of the Peace River map area. Alberta Research Council Open File Map 1985-11<br>(b) Fox J.C., Richardson R.J.H. and Sham P. 1987. Aggregate resources of the Peace River/High Level area. Alberta Research Council Map 210. |

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|---|---|
| Name: | Halverson Ridge |
| NTS Area: | 84E7 |
| DLS Coordinates: | LSD. 6 Sec. 7 Tp. 96 Rg. 4 W. 6 M. |
| Lat./Long.: | 57-18-12; 118-39-05 |
| Elevation: | 914? |
| Geological Formation: | preglacial; (a) |
| Type of Exposure: | pit; A.T.&U. |
| Description of Deposit: | DB88-02; northwest of Manning on Forestry/petroleum trunk road |
| Chemical Analysis: | geochemical analyses (3):<br>1988:<br>2B: 10 ppb Au<br>2C: 5 ppb Au<br>3D: nil ppb Au<br>assays (1):<br>1988:<br>3D: .002 oz/ton |
| Mineral Analysis: | panned samples (2):<br>1988:<br>3D: 1? colour in 2 pans |
| References: | (a) Scafe D.W., Edwards W.A.D. and Boisvert D.R. 1988. Sand and gravel resources of the Chinchaga River map area, NTS 84E. Alberta Research Council Open File Report 1988-15, 28 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Hand Hills |
| NTS Area: | 82P9 |
| DLS Coordinates: | LSD. 4 Sec. 14 Tp. 30 Rg. 17 W. 4 M. |
| Lat./Long.: | 51-33-40; 112-18-40 |
| Geological Formation: | Hand Hills Formation; Pliocene (a) |
| Type of Exposure: | road cut |
| Description of Deposit: | DE89-16; gravel thickness 2 m. |
| Mineral Analysis: | panned sample (50 kg):<br>A: nil colours in 50 kg. |
| References: | (a) Green, R. 1972. Geological map of Alberta. Alberta Research Council map. |

| | |
|---|---|
| Name: | Hand Hills |
| NTS Area: | 82P9 |
| DLS Coordinates: | LSD. 3 Sec. 5 Tp. 30 Rg. 17 W. 4 M. |
| Lat./Long.: | 51-32-40; 112-21-55 |
| Elevation: | 1067? |
| Geological Formation: | Hand Hills Formation; Pliocene (a,b) |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-6 |
| Chemical Analysis: | geochemical analyses (3):<br>1988:<br>1D (SF): 10 ppb Au<br>1D (C): 10 ppb Au<br>2B: nil ppb Au |
| References: | (a) Green, R. 1972. Geological map of Alberta. Alberta Research Council map.<br>(b) Vonhof J.A. 1969. Tertiary gravels and sands in the Canadian Great Plains. Univ. of Sask. Ph. D. thesis, 279 p. |

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|---|---|
| Name: | Hangingstone River-1 |
| NTS Area: | 74D6 |
| DLS Coordinates: | LSD 16 Sec. 32 Tp. 85 Rg. 9 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #11 |
| Mineral Analysis: | few colours (1 cu ft, sand, gravel and clay) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | Hay River-1 |
| NTS Area: | 84N4 |
| DLS Coordinates: | LSD 12 Sec. 11 Tp. 117 Rg. 22 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #10 |
| Mineral Analysis: | no gold (1 cu ft, clay, minor sand and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Heatherdown |
| NTS Area: | 83G9 |
| DLS Coordinates: | LSD. 8 Sec. 12 Tp. 54 Rg. 2 W. 5 M. |
| Lat./Long.: | 53-39-00; 114-09-00 |
| Elevation: | 738 (2400) |
| Geological Formation: | Sask. Sands and Gravels (a); Empress Fm. (b); Upland preglacial (c) |
| Type of Exposure: | pit; TBG formerly Steel Brothers |
| Description of Deposit: | DE88-2 and MP79-18 |
| Chemical Analysis: | geochemical analyses (3):<br>1988:<br>2B: 140 ppb Au<br>2C: 10 ppb Au<br>2D: 40 ppb Au<br>assay (1):<br>1988:<br>2D: .002 oz/ton |

# Placer gold occurrences in Alberta

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|---|---|
| Mineral Analysis: | panned samples (2):<br>1988:<br>2D: 25 colours in 2 pans |
| References: | (a) Edwards W.A.D. 1984. Aggregate resources of the Onoway map area. Alberta Research Council Open File Map 1984-15i.<br>(b) Andriashek L.D. 1988. Quaternary stratigraphy of the Edmonton map area, NTS 83H. Alberta Research Council Open File Report #198804 , 27 p.<br>(c) Edwards, W.A.Dixon 1984. Geology of some gravel deposits in the Edmonton region, Alberta in The geology of industrial minerals in Canada, CIM Special Vol. 29, p. 219-222. |
| Name: | Hinton |
| NTS Area: | 83F6 |
| DLS Coordinates: | LSD. 6 Sec. 23 Tp. 51 Rg. 24 W. 5 M. |
| Lat./Long.: | 53-25-00; 117-25-55 |
| Elevation: | 1402? |
| Geological Formation: | High Ridge conglomerate or Entrance conglomerate? (a) |
| Type of Exposure: | quarry (bedrock); St. Regis |
| Description of Deposit: | JF82-27 |
| Chemical Analysis: | geochemical analyses (2):<br>1988:<br>A: nil ppb Au<br>B: nil ppb Au |
| Physical Tests: | |
| References: | (a) Fox J.C. 1984. Aggregate resources of the Pedley map area. Alberta Research Council Open File Map 1984-14f. |
| Name: | Hinton |
| NTS Area: | 83F4 |
| DLS Coordinates: | LSD. 11 Sec. 21 Tp. 50 Rg. 25 W. 5 M. |
| Lat./Long.: | 53-19-40; 117-35-50 |
| Elevation: | 1067? |
| Geological Formation: | Entrance Formation |
| Type of Exposure: | outcrop; (bedrock) |
| Description of Deposit: | DE88-4 |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>C: nil ppb Au |
| Name: | Kipp |
| NTS Area: | 82H10 |
| DLS Coordinates: | LSD. 10 Sec. 18 Tp. 9 Rg. 22 W. 4 M. |
| Lat./Long.: | 49-44-10; 112-57-53 |
| Elevation: | 887 |
| Geological Formation: | Saskatchewan Sands and Gravels (a, b); early Pleistocene |
| Type of Exposure: | river cut; Kipp section on Oldman R. |
| Description of Deposit: | DE89-4; 4 m. gravel (887-891) |
| Chemical Analysis: | geochemical analysis (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (4):<br>1A: nil in 4 pans |
| Physical Tests: | bulk sample:<br>1B |
| References: | (a) Stalker A. Mac S. 1963. Quaternary stratigraphy in southern Alberta. Geological Survey of Canada Paper 62-34, 52 p.<br>(b) Allong A.F. 1967. Sedimentation and stratigraphy of the Saskatchewan Gravels and Sands in central and southern Alberta. Univ. of Wisconsin M. Sc. thesis, 130 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | Lake Wabamun |
| NTS Area: | 83G10 |
| DLS Coordinates: | LSD. 9 Sec. 10 Tp. 53 Rg. 5 W. 5 M. |
| Lat./Long.: | 53-33-40; 114-38-40 |
| Elevation: | 708 |
| Geological Formation: | Paskapoo Formation; Paleocene (a) |
| Type of Exposure: | outcrop (bedrock) |
| Description of Deposit: | DE89-10; pebbly sandstone, section height 708-720 (12 m.) |
| Chemical Analysis: | geochemical analyses (2):<br>1B: nil ppb Au<br>1C: nil ppb Au |
| References: | (a) Green, R. 1972. Geological map of Alberta. Alberta Research Council map. |

| | |
|---|---|
| Name: | Little Smoky River-1 |
| NTS Area: | 83K11 |
| DLS Coordinates: | LSD 8 Sec. 25 Tp. 66 Rg. 22 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #12 |
| Mineral Analysis: | some very fine-grained gold (2 cu ft, clay, sand and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Little Smoky River-2 |
| NTS Area: | 83N6 |
| DLS Coordinates: | LSD 4 Sec. 2 Tp. 75 Rg. 21 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #13 |
| Mineral Analysis: | few very fine grains (2 cu ft, sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis |

| | |
|---|---|
| Name: | Magnolia |
| NTS Area: | 83G10 |
| DLS Coordinates: | LSD. 7 Sec. 30 Tp. 53 Rg. 6 W. 5 M. |
| Lat./Long.: | 53-36-15; 114-52-15 |
| Elevation: | 762? |
| Geological Formation: | Upland preglacial (a,b) |
| Type of Exposure: | pit; county |
| Description of Deposit: | RR82-29 |
| Chemical Analysis: | geochemical analyses (2):<br>1988:<br>1: nil ppb Au<br>SF: nil ppb Au<br>assays (1):<br>1988:<br>1: .001 oz/ton Au |
| Mineral Analysis: | panned samples (2):<br>1988:<br>1: 8 colours in 2 pans |
| References: | (a) Richardson R.J.H. 1984. Aggregate resources of the Isle Lake map area. Alberta Research Council Open File Map 1984-15j.<br>(b) Edwards, W.A.Dixon 1984. Geology of some gravel deposits in the Edmonton region, Alberta in The geology of industrial minerals in Canada, CIM Special Vol. 29, p. 219-222. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | Magrath |
| NTS Area: | 82H7 |
| DLS Coordinates: | LSD. 12 Sec. 6 Tp. 5 Rg. 21 W. 4 M. |
| Lat./Long.: | 49-21-25; 112-49-45 |
| Elevation: | 1097? |
| Geological Formation: | preglacial (a,b) |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-21; pit #54 (a) |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>1A: nil ppb Au<br>assays (1):<br>1988:<br>1A: .002 oz/ton |
| Mineral Analysis: | panned samples (2):<br>1988:<br>1A: nil colours in 2 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Lethbridge area. Alberta Research Council Earth Sciences Report 81-4, 41 p.<br>(b) Shetsen I. 1984. Aggregate resources of the Raymond map area. Alberta Research Council Open File Map 1981-07g. |

| | |
|---|---|
| Name: | McLeod River-1 |
| NTS Area: | 83C14 |
| DLS Coordinates: | LSD 4 Sec. 30 Tp. 46 Rg. 23 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #1; (b) sample #220 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 0.015 mg/cu yd (17.0 cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | McLeod River-2 |
| NTS Area: | 83F6 |
| DLS Coordinates: | LSD 9 Sec. 26 Tp. 50 Rg. 23 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #2; (b) sample #175 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 0.111 mg/cu yd (17.0 cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | McLeod River-3 |
| NTS Area: | 83F10 |
| DLS Coordinates: | LSD 14 Sec. 27 Tp. 52 Rg. 20 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #3; (b) sample #147B |
| Chemical Analysis: | assays (b) (3):<br>35-60 mesh: 0.811 mg/cu yd (5.0 cu ft)<br>60-120 mesh: 2.863 mg/cu yd (5.0 cu ft)<br>-120 mesh: 2.053 mg/cu yd (5.0 cu ft); platinum noted<br>total: 5.727 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | McLeod River-4 |
| NTS Area: | 83F7 |
| DLS Coordinates: | LSD 12 Sec. 14 Tp. 52 Rg. 19 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #5; (b) sample #135 & 135A |
| Chemical Analysis: | assays (b) (6):<br>135:<br>18-35 mesh: nil mg/cu yd (1.2 cu ft)<br>35-60 mesh: 3.150 mg/cu yd (1.2 cu ft)<br>60-120+(-120) mesh: 6.910 mg/cu yd (22.5 cu ft)<br>total: 10.060 mg/cu yd<br>135A:<br>35-60 mesh: 0.240 mg/cu yd (9.0 cu ft)<br>60-120 mesh: 7.650 mg/cu yd (9.0 cu ft); platinum noted<br>-120 mesh: 7.650 mg/cu yd (9.0 cu ft); platinum noted<br>total: 15.540 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | McLeod River-5 |
| NTS Area: | 83F9 |
| DLS Coordinates: | LSD 9 Sec. 20 Tp. 53 Rg. 16 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #6; (b) sample #91 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (1.2 cu ft)<br>35-60 mesh: nil mg/cu yd (1.2 cu ft)<br>-60 mesh: 1.068 mg/cu yd (18.2 cu ft)<br>total: 1.068 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | McLeod River-6 |
| NTS Area: | 83F9 |
| DLS Coordinates: | LSD 16 Sec. 22 Tp. 54 Rg. 15 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #7; (b) sample #73 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 1.013 mg/cu yd (20.0 cu ft)<br>total: 1.013 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | McLeod River-7 |
| NTS Area: | 83F9 |
| DLS Coordinates: | LSD 14 Sec. 33 Tp. 54 Rg. 14 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #8; (b) sample #65 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 1.255 mg/cu yd (20.0 cu ft)<br>total: 1.255 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | McLeod River-8 |
| NTS Area: | 83G13 |
| DLS Coordinates: | LSD 12 Sec. 8 Tp. 56 Rg. 13 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #9; (b) sample #47 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (1.2 cu ft)<br>35-60 mesh: 0.022 mg/cu yd (1.2 cu ft)<br>-60 mesh: 1.493 mg/cu yd (16.1 cu ft)<br>total: 1.515 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | McLeod River-9 |
| NTS Area: | 83J4 |
| DLS Coordinates: | LSD 5 Sec. 35 Tp. 59 Rg. 12 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #10; (b) sample #1 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (1.2 cu ft)<br>35-60 mesh: nil mg/cu yd (1.2 cu ft)<br>-60 mesh: 0.089 mg/cu yd (18.2 cu ft)<br>total: 0.089 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Medicine Hat |
| NTS Area: | 72E15 |
| DLS Coordinates: | LSD. 10 Sec. 3 Tp. 12 Rg. 5 W. 4 M. |
| Lat./Long.: | 49-58-15; 110-36-15 |
| Elevation: | 708 |
| Geological Formation: | outwash; Pleistocene (a) |
| Type of Exposure: | pit |
| Description of Deposit: | RR81-7; gravel thickness 3 m. |
| Chemical Analysis: | Geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned sample (3):<br>1A: 1? colour in 3 pans |
| References: | (a) Richardson R.J.H. 1984. Aggregate resources of the Seven Persons map area. Alberta Research Council Open File Map 1984-08o. |

| | |
|---|---|
| Name: | Medicine Hat |
| NTS Area: | 72E15 |
| DLS Coordinates: | LSD. 8 Sec. 3 Tp. 12 Rg. 5 W. 4 M. |
| Lat./Long.: | 49-58-00; 110-35-55 |
| Elevation: | 740 |
| Geological Formation: | outwash; Pleistocene (a) |
| Type of Exposure: | pit; A.T.&U. |
| Description of Deposit: | RR81-8; gravel thickness 3 m. |
| Chemical Analysis: | gechemical analyses (2):<br>1A: nil ppb Au<br>1C: nil ppb Au |
| Mineral Analysis: | panned sample (6):<br>1A: nil in 3 pans<br>1C: nil in 3 pans |
| References: | (a) Richardson R.J.H. 1984. Aggregate resources of the Seven Persons map area. Alberta Research Council Open File Map 1984-08o. |

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|---|---|
| Name: | Milk River-1 |
| NTS Area: | 82H2 |
| DLS Coordinates: | LSD 2 Sec. 18 Tp. 1 Rg. 19 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #1; (b) sample #170 |
| Chemical Analysis: | assays (b) (2):<br>18-35 mesh: nil mg/cu yd<br>35-60 mesh: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

Name: Milk River-2
NTS Area: 82H1
DLS Coordinates: LSD 8 Sec. 18 Tp. 2 Rg. 18 W. 4 M.
Geological Formation: alluvium; Recent
Type of Exposure: river ; bed
Description of Deposit: (a) sample #2; (b) sample #152
Chemical Analysis: assays (b) (3):
18-35 mesh: nil mg/cu yd (8.0 cu ft)
35-60 mesh: 0.027 mg/cu yd (20.0 cu ft)
-60 mesh: 0.243 mg/cu yd
total: 0.270 mg/cu yd
Physical Tests: grain size; gravel lithology (a)
References: (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.
(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p.

Name: Milk River-3
NTS Area: 82H1
DLS Coordinates: LSD 15 Sec. 21 Tp. 2 Rg. 16 W. 4 M.
Geological Formation: alluvium; Recent
Type of Exposure: river; bar
Description of Deposit: (a) sample #3; (b) sample #127
Chemical Analysis: assays (b) (3):
35-60 mesh: nil mg/cu yd (9.0 cu ft)
60-120 mesh: 0.150 mg/cu yd (9.0 cu ft)
-120 mesh: 0.810 mg/cu yd (9.0 cu ft)
total: 0.960 mg/cu yd
Physical Tests: grain size; gravel lithology (a)
References: (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.
(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p.

Name: Milk River-4
NTS Area: 72E4
DLS Coordinates: LSD 13 Sec. 5 Tp. 2 Rg. 15 W. 4 M.
Geological Formation: alluvium; Recent
Type of Exposure: river; island bar
Description of Deposit: (a) sample #4; (b) sample #117 & 117E
Chemical Analysis: assays (b) (5):
117:
18-35 mesh: nil mg/cu yd
35-60 mesh: nil mg/cu yd
117E:
35-60 mesh: 0.210 mg/cu yd (9.0 cu ft)
60-120 mesh: 3.300 mg/cu yd (9.0 cu ft)
-120 mesh: 12.390 mg/cu yd (9.0 cu ft); platinum noted
total: 15.900 mg/cu yd
Physical Tests: grain size; gravel lithology (a)
References: (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.
(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p.

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Milk River-5 |
| NTS Area: | 72E3 |
| DLS Coordinates: | LSD 6 Sec. 30 Tp. 2 Rg. 9 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #8; (b) sample #57 |
| Chemical Analysis: | assays (b) (2):<br>18-35 mesh: nil mg/cu yd<br>35-60 mesh: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Milk River-6 |
| NTS Area: | 72E3 |
| DLS Coordinates: | LSD 6 Sec. 3 Tp. 1 Rg. 5 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #9; (b) sample #5 |
| Chemical Analysis: | assays (b) (1):<br>35-60 mesh: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Nanton |
| NTS Area: | 82I5 |
| DLS Coordinates: | LSD. 2 Sec. 36 Tp. 17 Rg. 30 W. 4 M. |
| Lat./Long.: | 50-28-15; 113-59-50 |
| Elevation: | 1143? |
| Geological Formation: | preglacial (a) |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-16 |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>1A: nil ppb Au<br>assay (1):<br>1988:<br>1A: .001 oz/ton |
| Mineral Analysis: | panned sample (2):<br>1988:<br>1A: 1 colour in 2 pans |
| References: | (a) Shetsen I. 1981. Sand and gravel resources of the Calgary region, NTS 82I,J,O. Alberta Research Council Open File Report 1981-8, 96 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-1 |
| NTS Area: | 83C2 |
| DLS Coordinates: | LSD 12 Sec. 20 Tp. 36 Rg. 21 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #1; (b) sample #540 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd<br>35-60 mesh: nil mg/cu yd<br>-60 mesh: nil mg/cu yd<br>total: 0.000 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-2 |
| NTS Area: | 83C1 |
| DLS Coordinates: | LSD. 3 Sec. 14 Tp. 35 Rg. 18 W. 5 M. |
| Lat./Long.: | 52-00-10; 116-28-00 |
| Elevation: | 1348 |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | DE89-7 |
| Chemical Analysis: | geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | sluiced samples (4 * 2.5 gal. pails):<br>1A: nil colours |

| | |
|---|---|
| Name: | North Saskatchewan River-3 |
| NTS Area: | 83C1 |
| DLS Coordinates: | LSD. 12 Sec. 8 Tp. 36 Rg. 17 W. 5 M. |
| Lat./Long.: | 52-05-00; 116-24-10 |
| Elevation: | 1335 |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | DE89-6 |
| Chemical Analysis: | geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (4):<br>1A: nil in 4 pans |

| | |
|---|---|
| Name: | North Saskatchewan River-4 |
| NTS Area: | 83C8 |
| DLS Coordinates: | LSD 3 Sec. 34 Tp. 38 Rg. 17 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #2; (b) sample #484 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.014 mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.054 mg/cu yd (20.0 cu ft)<br>total: 0.068 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

Name: North Saskatchewan River-5
NTS Area: 83B6
DLS Coordinates: LSD 3 Sec. 4 Tp. 40 Rg. 9 W. 5 M.
Geological Formation: alluvium; Recent
Type of Exposure: river; island bar
Description of Deposit: (a) sample #4; (b) sample #421
Chemical Analysis: assays (b) (3):
18-35 mesh: nil mg/cu yd (8.0 cu ft)
35-60 mesh: nil mg/cu yd (20.0 cu ft)
-60 mesh: 0.297 mg/cu yd (20.0 cu ft)
total: 0.297 mg/cu yd
Physical Tests: grain size; gravel lithology (a)
References: (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.
(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p.

Name: North Saskatchewan River-6
NTS Area: 83B7
DLS Coordinates: LSD 16 Sec. 21 Tp. 39 Rg. 7 W. 5 M.
Geological Formation: alluvium; Recent
Type of Exposure: river bank
Description of Deposit: (a) sample #19; (b) sample #5
Mineral Analysis: very little fine gold (2 cu ft, clay and sand plus some gravel)
References: (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.
(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672.

Name: North Saskatchewan River-7
NTS Area: 83B7
DLS Coordinates: LSD 9 Sec. 28 Tp. 39 Rg. 7 W. 5 M.
Geological Formation: alluvium; Recent
Type of Exposure: river, island bar
Description of Deposit: (a) sample #20; (b) sample #6
Mineral Analysis: some gold (2 cu ft, sand)
References: (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.
(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672.

Name: North Saskatchewan River-8
NTS Area: 83B7
DLS Coordinates: LSD 15 Sec. 33 Tp. 39 Rg. 7 W. 5 M.
Geological Formation: alluvium; Recent
Type of Exposure: river; point bar
Description of Deposit: (a) sample #5; (b) sample #401
Chemical Analysis: assays (b) (4):
18-35 mesh: nil mg/cu yd (8.0 cu ft)
35-60 mesh: 0.135 mg/cu yd (20.0 cu ft)
60-120 mesh: 2.052 mg/cu yd (20.0 cu ft)
-120 mesh: 1.485 mg/cu yd (20.0 cu ft)
total: 3.672 mg/cu yd
Physical Tests: grain size; gravel lithology (a)
References: (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.
(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p.

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | North Saskatchewan River-9 |
| NTS Area: | 83B14 |
| DLS Coordinates: | LSD 11 Sec. 13 Tp. 45 Rg. 9 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #6; (b) sample #358 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.068 mg/cu yd (20.0 cu ft)<br>-60 mesh: 2.065 mg/cu yd (20.0 cu ft)<br>total: 2.133 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-10 |
| NTS Area: | 83G2 |
| DLS Coordinates: | LSD 13 Sec. 35 Tp. 48 Rg. 7 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #7; (b) sample #322 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.230 mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.878 mg/cu yd (20.0 cu ft)<br>total: 1.108 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-11 |
| NTS Area: | 83G2 |
| DLS Coordinates: | LSD 16 Sec. 3 Tp. 49 Rg. 7 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #21 |
| Mineral Analysis: | no gold (1 cu ft, sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | North Saskatchewan River-12 |
| NTS Area: | 83G ? |
| DLS Coordinates: | LSD 8 Sec. 14 Tp. 50 Rg. 6 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #8; (b) sample #305 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.297 mg/cu yd (20.0 cu ft)<br>-60 mesh: 5.265 mg/cu yd (20.0 cu ft)<br>total: 5.562 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-13 |
| NTS Area: | 83G7 |
| DLS Coordinates: | LSD 12 Sec. 13 Tp. 50 Rg. 6 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #9; (b) sample #304 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (3.1 cu ft)<br>-60 mesh: 2.382 mg/cu yd (20.4 cu ft)<br>total: 2.382 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-14 |
| NTS Area: | 83G7 |
| DLS Coordinates: | LSD 10 Sec. 13 Tp. 50 Rg. 6 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank and bed |
| Description of Deposit: | (a) sample #22 |
| Mineral Analysis: | some gold (2 cu ft, from 3 separate sites) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | North Saskatchewan River-15 |
| NTS Area: | 83G8 |
| DLS Coordinates: | LSD 4 Sec. 15 Tp. 51 Rg. 3 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #10; (b) sample #276 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.081 mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.446 mg/cu yd (20.0 cu ft); platinum noted<br>total: 0.527 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-16 |
| NTS Area: | 83G8 |
| DLS Coordinates: | LSD 15 Sec. 27 Tp. 50 Rg. 1 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #12; (b) sample #253 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.635 mg/cu yd (20.0 cu ft)<br>-60 mesh: 5.238 mg/cu yd (20.0 cu ft)<br>total: 5.873 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-17 |
| NTS Area: | 83H5 |
| DLS Coordinates: | LSD 13 Sec. 33 Tp. 50 Rg. 26 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #14; (b) sample #237 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.770 mg/cu yd (20.0 cu ft)<br>-60 mesh: 53.950 mg/cu yd (20.0 cu ft)<br>total: 54.720 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-18 |
| NTS Area: | 83H5 |
| DLS Coordinates: | LSD 3 Sec. 3 Tp. 51 Rg. 26 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #24; (b) sample #7 |
| Mineral Analysis: | good colours of gold, a few platinum grains |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

| | |
|---|---|
| Name: | North Saskatchewan River-19 |
| NTS Area: | 83H5 |
| DLS Coordinates: | LSD 7 Sec. 3 Tp. 51 Rg. 26 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #15; (b) sample #236 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 14.070 mg/cu yd (14.9 cu ft); platinum noted |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-20 |
| NTS Area: | 83H5 |
| DLS Coordinates: | LSD 7 Sec. 3 Tp. 51 Rg. 26 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #23 |
| Mineral Analysis: | some gold, especially moss gold (1 cu ft, sand and clay plus gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-21 |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD 8 Sec. 30 Tp. 52 Rg. 24 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #17; (b) sample #212 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 1.842 mg/cu yd (22.0 cu ft)<br>60-120 mesh: 10.680 mg/cu yd ; platinum noted<br>-120 mesh: 10.580 mg/cu yd; platinum noted<br>total: 23.102 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-22 |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD 12 Sec. 31 Tp. 52 Rg. 24 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #26; (b) sample #9; |
| Mineral Analysis: | very good colours (18 cu ft, sand and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

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|---|---|
| Name: | North Saskatchewan River-23 |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD 12 Sec. 31 Tp. 52 Rg. 24 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #27; (b) sample #10 |
| Mineral Analysis: | same bar as North Saskatchewan River-22; sample donated by La Casse |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

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|---|---|
| Name: | North Saskatchewan River-24 |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD 12 Sec. 31 Tp. 52 Rg. 24 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #28; (b) sample #11 |
| Mineral Analysis: | gold grains separated from sample from North Saskatchewan River-22 |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-25 |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD 3 Sec. 32 Tp. 52 Rg. 24 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #25; (b) sample #8 |
| Mineral Analysis: | some gold |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

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|---|---|
| Name: | North Saskatchewan River-26 |
| NTS Area: | 83H11 |
| DLS Coordinates: | LSD 12 Sec. 14 Tp. 55 Rg. 22 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #19; (b) sample #182 & 182A |
| Chemical Analysis: | assays (b) (6):<br>182:<br>35-60 mesh: nil mg/cu yd (1.5 cu ft)<br>-60 mesh: 16.250 mg/cu yd (16.4 cu ft); platinum noted<br>total: 16.250 mg/cu yd<br>182A:<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.074 mg/cu yd (20.0 cu ft)<br>60-120 mesh: 9.220 mg/cu yd (20.0 cu ft)<br>-120 mesh: 7.105 mg/cu yd (20.0 cu ft)<br>total: 16.399 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-27 |
| NTS Area: | 83I2 |
| DLS Coordinates: | LSD 4 Sec. 12 Tp. 58 Rg. 20 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #20; (b) sample #158 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: lost (20.0 cu ft)<br>60-120 mesh: 16.440 mg/cu yd (20.0 cu ft)<br>-120 mesh: 18.770 mg/cu yd (20.0 cu ft)<br>total: 35.210 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-28 |
| NTS Area: | 83I2 |
| DLS Coordinates: | LSD 9 Sec. 32 Tp. 58 Rg. 19 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar and bench |
| Description of Deposit: | (a) sample #14 |
| Mineral Analysis: | gold present (4 cu ft) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | North Saskatchewan River-29 |
| NTS Area: | 83H15 |
| DLS Coordinates: | LSD 5 Sec. 12 Tp. 58 Rg. 18 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar and bench |
| Description of Deposit: | (a) sample #15 |
| Mineral Analysis: | gold present (4 cu ft) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-30 |
| NTS Area: | 83H15 |
| DLS Coordinates: | LSD 2 Sec. 12 Tp. 58 Rg. 18 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #21; (b) sample #141 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 1.823 mg/cu yd (20.0 cu ft)<br>60-120 mesh: 19.100 mg/cu yd (20.0 cu ft); platinum noted<br>-120 mesh: 21.520 mg/cu yd (20.0 cu ft); platinum noted<br>total: 42.443 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-31 |
| NTS Area: | 83H16 |
| DLS Coordinates: | LSD 14 Sec. 34 Tp. 57 Rg. 15 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #22; (b) sample #118 & 118A |
| Chemical Analysis: | assays (b) (6):<br>118:<br>35-60 mesh: nil mg/cu yd (2.0 cu ft)<br>-60 mesh: 247.200 mg/cu yd (16.9 cu ft); platinum noted<br>-120 mesh: platinum noted<br>total: 247.200 mg/cu yd<br>118A:<br>18-35 mesh: nil mg/cu yd (4.0 cu ft)<br>35-60 mesh: 0.502 mg/cu yd (14.0 cu ft)<br>60-120 mesh: 25.250 mg/cu yd (14.0 cu ft); platinum noted<br>-120 mesh: 114.800 mg/cu yd (14.0 cu ft); platinum noted<br>total: 140.552 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-32 |
| NTS Area: | 83H16 |
| DLS Coordinates: | LSD 10 Sec. 34 Tp. 57 Rg. 15 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #16; (b) sample #12 |
| Mineral Analysis: | gold present (2 cu ft, sand and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-33 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 7 Sec. 18 Tp. 57 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #23; (b) sample #99 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (4.0 cu ft)<br>35-60 mesh: 1.132 mg/cu yd (16.0 cu ft)<br>60-120 mesh: 11.390 mg/cu yd (16.0 cu ft); platinum noted<br>-120 mesh: 38.340 mg/cu yd (16.0 cu ft); platinum noted<br>total: 50.862 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-34 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 4 Sec. 17 Tp. 57 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #1 |
| Chemical Analysis: | assays (fire assay, a) (1):<br>1: 0.005 g/tonne |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

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|---|---|
| Name: | North Saskatchewan River-35 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 4 Sec. 17 Tp. 57 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #2 |
| Chemical Analysis: | assays (AA a) (1):<br>2: 0.016 g/tonne<br>assays (fire assay; a) (1):<br>2: 0.002 g/tonne |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

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|---|---|
| Name: | North Saskatchewan River-36 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 4 Sec. 17 Tp. 57 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #3 |
| Chemical Analysis: | assays (AA; a) (1):<br>3: 0.009 g/tonne<br>assays (fire assay; a) (1):<br>3: 0.002 g/tonne |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-37 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 13 Sec. 28 Tp. 56 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #4 |
| Chemical Analysis: | assays (AA, a) (1):<br>4: 0.005 g/tonne<br>assays (fire assay, a) (1):<br>4: 0.006 g/tonne |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

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|---|---|
| Name: | North Saskatchewan River-38 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 16 Sec. 21 Tp. 56 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #5 |
| Chemical Analysis: | assays (AA; a) (1):<br>0.021 g/tonne |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-39 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 7 Sec. 17 Tp. 56 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #7 |
| Chemical Analysis: | assays (AA; a) (1):<br>7: 0.011 g/tonne |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-40 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 14 Sec. 8 Tp. 56 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; |
| Description of Deposit: | (a) sample #14 |
| Chemical Analysis: | assays (AA; a) (1):<br>14: 0.038 g/tonne<br>assays (fire assay; a) (1):<br>14: 0.022 g/tonne |
| Physical Tests: | grain size (a) |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | North Saskatchewan River-41 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 2 Sec. 8 Tp. 56 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #15 |
| Chemical Analysis: | assays (AA; a) (1):<br>15: 0.005 g/tonne<br>assays (fire assay; a) (1):<br>15: 0.020 g/tonne |
| Physical Tests: | grain size (a) |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

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|---|---|
| Name: | North Saskatchewan River-42 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 15 Sec. 5 Tp. 56 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #16 |
| Chemical Analysis: | assays (AA; a) (1):<br>16: 0.053 g/tonne<br>assays (fire assay; a) (1):<br>16: 0.035 g/tonne |
| Physical Tests: | grain size (a) |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

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|---|---|
| Name: | North Saskatchewan River-43 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 4 Sec. 4 Tp. 56 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #17 |
| Chemical Analysis: | assays (AA; a) (1):<br>17: 0.067 g/tonne<br>assays (fire assay; a) (1):<br>17: 0.052 g/tonne |
| Physical Tests: | grain size (a) |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-44 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 11 Sec. 33 Tp. 55 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #19 |
| Chemical Analysis: | assays (AA; a) (1):<br>19: 0.029 g/tonne |
| Physical Tests: | grain size (a) |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-45 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 4 Sec. 34 Tp. 55 Rg. 12 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river |
| Description of Deposit: | (a) sample #20 |
| Chemical Analysis: | assays (AA; a) (1):<br>20: 0.0001 g/tonne<br>assays (fire assay; a) (1):<br>20: 0.0007 g/tonne |
| References: | (a)MacGillivray J.R., Sham P.C. and Boisvert D.R. 1984. Alluvial gold project, North Saskatchewan River, Alberta. Alberta Research Council Open File Report 1984-29, 37 p. |

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|---|---|
| Name: | North Saskatchewan River-46 |
| NTS Area: | 73E13 |
| DLS Coordinates: | LSD 4 Sec. 32 Tp. 55 Rg. 11 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #24; (b) sample #84 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (4.0 cu ft)<br>35-60 mesh: 4.035 mg/cu yd (16.0 cu ft)<br>60-120 mesh: 63.900 mg/cu yd (16.0 cu ft); platinum noted<br>-120 mesh: 140.200 mg/cu yd (16.0 cu ft); platinum noted<br>total: 208.135 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-47 |
| NTS Area: | 73E14 |
| DLS Coordinates: | LSD 14 Sec. 13 Tp. 55 Rg. 9 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #17 |
| Mineral Analysis: | some gold (3 cu ft, sand and gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | North Saskatchewan River-48 |
| NTS Area: | 73E14 |
| DLS Coordinates: | LSD 14 Sec. 16 Tp. 55 Rg. 8 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #25; (b) sample #62 & 62A |
| Chemical Analysis: | assays (b) (6):<br>62:<br>35-60 mesh: nil mg/cu yd (1.7 cu ft)<br>-60 mesh: 61.000 mg/cu yd (16.6 cu ft)<br>-120 mesh: platinum noted<br>total: 61.000 mg/cu yd<br>62A:<br>18-35 mesh: nil mg/cu yd (4.0 cu ft)<br>35-60 mesh: 3.180 mg/cu yd (16.0 cu ft)<br>60-120 mesh: 31.100 mg/cu yd (16.0 cu ft); platinum noted<br>-120 mesh: 134.500 mg/cu yd (16.0 cu ft); platinum noted<br>total: 168.780 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | North Saskatchewan River-49 |
| NTS Area: | 73E15 |
| DLS Coordinates: | LSD 14 Sec. 19 Tp. 56 Rg. 6 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #26; (b) sample #49 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (4.5 cu ft)<br>35-60 mesh: 0.100 mg/cu yd (13.5 cu ft)<br>60-120 mesh: 14.740 mg/cu yd (13.5 cu ft); platinum noted<br>-120 mesh: 30.400 mg/cu yd (13.5 cu ft)<br>total: 45.240 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-50 |
| NTS Area: | 73E15 |
| DLS Coordinates: | LSD 8 Sec. 22 Tp. 56 Rg. 5 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #27; (b) sample #37 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (3.0 cu ft)<br>35-60 mesh: 0.014 mg/cu yd (20.0 cu ft)<br>60-120 mesh: 7.040 mg/cu yd<br>-120 mesh: 2.050 mg/cu yd ; platinum noted<br>total: 9.104 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Saskatchewan River-51 |
| NTS Area: | 73E9 |
| DLS Coordinates: | LSD 11 Sec. 5 Tp. 56 Rg. 4 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island |
| Description of Deposit: | (a) sample #28; (b) sample #33 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (4.5 cu ft)<br>35-60 mesh: 0.100 mg/cu yd (13.5 cu ft)<br>60-120 mesh: 21.360 mg/cu yd (13.5 cu ft); platinum noted<br>-120 mesh: 71.600 mg/cu yd (13.5 cu ft); platinum noted<br>total: 93.060 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-52 |
| NTS Area: | 73E9 |
| DLS Coordinates: | LSD 6 Sec. 14 Tp. 54 Rg. 3 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #29; (b) sample #18 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (4.5 cu ft)<br>35-60 mesh: 0.340 mg/cu yd (13.5 cu ft)<br>60-120 mesh: 13.320 mg/cu yd (13.5 cu ft); platinum noted<br>-120 mesh:57.240 mg/cu yd (13.5 cu ft); platinum noted<br>total: 70.900 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Saskatchewan River-53 |
| NTS Area: | 73E9 |
| DLS Coordinates: | LSD 3 Sec. 14 Tp. 54 Rg. 3 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #18; (b) sample #13 |
| Mineral Analysis: | some gold (2 cu ft, sand, clay and pebbles) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p.<br>(b)Giusti L. 1986. The morphology, mineralogy, and behavior of "fine-grained" gold from placer deposits of Alberta: sampling and implications for mineral exploration. Can. J. Earth Sci. Vol. 23, No. 11, p. 1662-1672. |

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|---|---|
| Name: | North Saskatchewan River-54 |
| NTS Area: | 73E9 |
| DLS Coordinates: | LSD 12 Sec. 4 Tp. 54 Rg. 1 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #30; (b) sample #5 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (5.1 cu ft)<br>-60 mesh: 0.689 mg/cu yd (5.1 cu ft)<br>total: 0.689 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | North Milk River-1 |
| NTS Area: | 82H2 |
| DLS Coordinates: | LSD 4 Sec. 13 Tp. 1 Rg. 34 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bank |
| Description of Deposit: | (a) sample #1; (b) sample #201 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.230 mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.365 mg/cu yd (20.0 cu ft)<br>total: 0.595 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Milk River-2 |
| NTS Area: | 82H2 |
| DLS Coordinates: | LSD 16 Sec. 10 Tp. 2 Rg. 21 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bank |
| Description of Deposit: | (a) sample #2; (b) sample #180 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.852 mg/cu yd (20.0 cu ft)<br>total: 0.852 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | North Milk River-3 |
| NTS Area: | 82H1 |
| DLS Coordinates: | LSD 8 Sec. 19 Tp. 2 Rg. 18 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #3; (b) sample #151 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (4.0 cu ft)<br>35-60 mesh: nil mg/cu yd (16.0 cu ft)<br>-60 mesh: 1.248 mg/cu yd (16.0 cu ft)<br>total: 1.248 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Oldman River-1 |
| NTS Area: | 82G16 |
| DLS Coordinates: | LSD 3 Sec. 35 Tp. 11 Rg. 4 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #1; (b) sample #256 |
| Chemical Analysis: | assays (b) ():<br>18-35 mesh: nil mg/cu yd<br>35-60 mesh: nil mg/cu yd<br>60-230 +(-230)mesh: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Oldman River-2 |
| NTS Area: | 82G9 |
| DLS Coordinates: | LSD. 6 Sec. 35 Tp. 7 Rg. 1 W. 5 M. |
| Lat./Long.: | 49-36-10: 114-02-20 |
| Elevation: | 1097 |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | DE89-14; near Crowsnest River junction |
| Chemical Analysis: | geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (3):<br>1A: nil colours in 3 pans |

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|---|---|
| Name: | Oldman River-3 |
| NTS Area: | 82H12 |
| DLS Coordinates: | LSD 5 Sec. 30 Tp. 7 Rg. 29 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #2; (b) sample #205 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd<br>60-120+(-230) mesh: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Oldman River-4 |
| NTS Area: | 82H11 |
| DLS Coordinates: | LSD 7 Sec. 13 Tp. 9 Rg. 26 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed beside riffle |
| Description of Deposit: | (a) sample #3; (b) sample #159 |
| Chemical Analysis: | assays (b) (3):<br>35-60 mesh: nil mg/cu yd (10.0 cu ft)<br>60-120 mesh: 0.810 mg/cu yd (10.0 cu ft)<br>120-230+(-230) mesh: 0.405 mg/cu yd (10.0 cu ft)<br>total: 1.215 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Oldman River-5 |
| NTS Area: | 82H11 |
| DLS Coordinates: | LSD 5 Sec. 19 Tp. 9 Rg. 25 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar, upstream end |
| Description of Deposit: | (a) sample #4; (b) sample #158 |
| Chemical Analysis: | assays (b) (1):<br>35-60 mesh: nil mg/cu yd (cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Oldman River-6 |
| NTS Area: | 82H15 |
| DLS Coordinates: | LSD 13 Sec. 1 Tp. 9 Rg. 22 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #5; (b) sample #100 |
| Chemical Analysis: | assays (b) (1):<br>18-35 mesh: nil mg/cu yd (cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Oldman River-7 |
| NTS Area: | 82H16 |
| DLS Coordinates: | LSD 13 Sec. 7 Tp. 10 Rg. 17 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #6; (b) sample #43D |
| Chemical Analysis: | assays (b) (3):<br>35-60 mesh: 0.108 mg/cu yd (10.0 cu ft)<br>60-120 mesh: 0.189 mg/cu yd (10.0 cu ft)<br>120-230+(-230) mesh: 0.432 mg/cu yd (10.0 cu ft)<br>total: 0.729 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Oldman River-8 |
| NTS Area: | 82H16 |
| DLS Coordinates: | LSD 13 Sec. 7 Tp. 10 Rg. 17 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #6; (b) sample #43 |
| Chemical Analysis: | assays (b) (1):<br>35-60 mesh: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Oldman River-9 |
| NTS Area: | 72E13 |
| DLS Coordinates: | LSD 6 Sec. 21 Tp. 11 Rg. 13 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #7; (b) sample #3 |
| Chemical Analysis: | assays (b):<br>total: very little |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Oldman River-10 |
| NTS Area: | 72E13 |
| DLS Coordinates: | LSD 1 Sec. 28 Tp. 11 Rg. 13 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #8; (b) sample #1 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: 0.010 mg/cu yd (20.0 cu ft)<br>60-120+(-230) mesh: 0.162 mg/cu yd (20.0 cu ft)<br>total: 0.172 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Peace River-1 |
| NTS Area: | 84D4 |
| DLS Coordinates: | LSD 10 Sec. 27 Tp. 82 Rg. 13 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #1; (b) sample #667 |
| Chemical Analysis: | assays (b) (1):<br>60-120+(-120) mesh: 0.193 mg/cu yd (16.8 cu ft)<br>total: 0.193 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Peace River-2 |
| NTS Area: | 84D2 |
| DLS Coordinates: | LSD 13 Sec. 20 Tp. 81 Rg. 6 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near upstream end |
| Description of Deposit: | (a) sample #2; (b) sample #604 |
| Chemical Analysis: | assays (b) (1):<br>60-120+(-120) mesh: 2.475 mg/cu yd (16.8 cu ft)<br>total: 2.475 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Peace River-3 |
| NTS Area: | 84D2 |
| DLS Coordinates: | LSD 11 Sec. 20 Tp. 81 Rg. 6 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near middle |
| Description of Deposit: | (a) sample #3; (b) sample #604A |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: 0.338 mg/cu yd (20.0 cu ft)<br>60-120+(-120) mesh: 1.242 mg/cu yd (20.0 cu ft)<br>total: 1.680 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Peace River-4 |
| NTS Area: | 83M15 |
| DLS Coordinates: | LSD 14 Sec. 7 Tp. 80 Rg. 4 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar and bed |
| Description of Deposit: | (a) sample #32 |
| Mineral Analysis: | no gold (1.5 cu ft, sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Peace River-5 |
| NTS Area: | 84C4 |
| DLS Coordinates: | LSD 9 Sec. 8 Tp. 82 Rg. 23 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #5; (b) sample #539 |
| Chemical Analysis: | assays (b) (1):<br>60-120+(-120) mesh: 1.323mg/cu yd (14.9 cu ft)<br>total: 1.323 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Peace River-6 |
| NTS Area: | 84C4 |
| DLS Coordinates: | LSD 3 Sec. 16 Tp. 82 Rg. 23 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near ypstream end |
| Description of Deposit: | (a) sample #6; (b) sample #538 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: 0.014 mg/cu yd (20.0 cu ft)<br>60-120+(-120) mesh: 0.891 mg/cu yd (20.0 cu ft)<br>total: 0.905 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Peace River-7 |
| NTS Area: | 84C4 |
| DLS Coordinates: | LSD 6 Sec. 16 Tp. 82 Rg. 23 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #31 |
| Mineral Analysis: | no gold (2 cu ft, sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Peace River-8 |
| NTS Area: | 84C3 |
| DLS Coordinates: | LSD 8 Sec. 36 Tp. 82 Rg. 23 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar |
| Description of Deposit: | (a) sample #29 |
| Mineral Analysis: | no gold |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | Peace River-9 |
| NTS Area: | 84C11 |
| DLS Coordinates: | LSD 13 Sec. 32 Tp. 89 Rg. 21 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near upstream end |
| Description of Deposit: | (a) sample #7; (b) sample #476 |
| Chemical Analysis: | assays (b) (1):<br>60-120+(-120) mesh: 1.125 mg/cu yd (16.8 cu ft)<br>total: 1.125 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Peace River-10 |
| NTS Area: | 84F6 |
| DLS Coordinates: | LSD 3 Sec. 1 Tp. 97 Rg. 20 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near upstream end |
| Description of Deposit: | (a) sample #8; (b) sample #412 |
| Chemical Analysis: | assays (b) (1):<br>60-120+(-120) mesh: 0.236 mg/cu yd (14.9 cu ft)<br>total: 0.236 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Peace River-11 |
| NTS Area: | 84F14 |
| DLS Coordinates: | LSD 16 Sec. 20 Tp. 102 Rg. 19 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near upstream end |
| Description of Deposit: | (a) sample #9; (b) sample #349 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd 1.7 cu ft)<br>60-120+(-120) mesh: 7.075 mg/cu yd (16.6 cu ft)<br>total: 7.075 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Peace River-12 |
| NTS Area: | 84K7 |
| DLS Coordinates: | LSD 11 Sec. 11 Tp. 107 Rg.16 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near upstream end |
| Description of Deposit: | (a) sample #10; (b) sample #288 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (4.2 cu ft)<br>-60 mesh: 0.060 mg/cu yd (4.2 cu ft)<br>total: 0.060 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Peace River-13 |
| NTS Area: | 84K8 |
| DLS Coordinates: | LSD 7 Sec. 29 Tp. 108 Rg. 13 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar and bank |
| Description of Deposit: | (a) sample #30 |
| Mineral Analysis: | no gold (2 cu ft, sand and clay) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | Peace River-14 |
| NTS Area: | 84J6 |
| DLS Coordinates: | LSD 14 Sec. 16 Tp. 108 Rg. 9 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near upstream end |
| Description of Deposit: | (a) sample #11; (b) sample #228 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (4.2 cu ft)<br>-60 mesh: 0.060 mg/cu yd (4.2 cu ft)<br>total: 0.060 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Peace River-15 |
| NTS Area: | 84J9 |
| DLS Coordinates: | LSD 9 Sec. 12 Tp. 111 Rg. 1 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #12; (b) sample #165 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (4.2 cu ft)<br>-60 mesh: nil mg/cu yd (4.2 cu ft)<br>total: 0.000 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Peace River-16 |
| NTS Area: | 84I14 |
| DLS Coordinates: | LSD 4 Sec. 35 Tp. 113 Rg. 19 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #13; (b) sample #113 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (4.2 cu ft)<br>-60 mesh: 0.386 mg/cu yd (4.2 cu ft)<br>total: 0.386 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Peace River-17 |
| NTS Area: | 84P1 |
| DLS Coordinates: | LSD 12 Sec. 19 Tp. 116 Rg. 13 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island upstream end |
| Description of Deposit: | (a) sample #14; (b) sample #60 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (4.2 cu ft)<br>-60 mesh: 0.060 mg/cu yd (4.2 cu ft)<br>total: 0.060 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Peace River-18 |
| NTS Area: | 74L13 |
| DLS Coordinates: | LSD 9 Sec. 35 Tp. 114 Rg. 10 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island upstream end |
| Description of Deposit: | (a) sample #15; (b) sample #7 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd ( 4.2 cu ft)<br>-60 mesh: 0.514 mg/cu yd (4.2 cu ft)<br>total: 0.514 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Pembina River-1 |
| NTS Area: | 83I5 |
| DLS Coordinates: | LSD 14 Sec. 4 Tp. 62 Rg. 27 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #36 |
| Mineral Analysis: | a few very fine grained gold particles (1 cu ft, clay and about 5% sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | Ponton River-1 |
| NTS Area: | 84K9 |
| DLS Coordinates: | LSD 2 Sec. 1 Tp. 110 Rg. 15 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank and bed |
| Description of Deposit: | (a) sample #37 |
| Mineral Analysis: | some gold (?) (1 cu ft) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | Red Deer River-1 |
| NTS Area: | 82O12 |
| DLS Coordinates: | LSD 7 Sec. 12 Tp. 32 Rg. 12 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bar near upstream end |
| Description of Deposit: | (a) sample #1; (b) sample #446A |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd<br>35-60 mesh: nil mg/cu yd<br>-60 mesh: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Red Deer River-2 |
| NTS Area: | 82O11 |
| DLS Coordinates: | LSD 12 Sec. 13 Tp. 31 Rg. 10 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bar |
| Description of Deposit: | (a) sample #2; (b) sample #429 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 0.025 mg/cu yd (17.0 cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Red Deer River-3 |
| NTS Area: | 82O15 |
| DLS Coordinates: | LSD 13 Sec. 11 Tp. 33 Rg. 5 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #4; (b) sample #386 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 0.013 mg/cu yd (21.3 cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Red Deer River-4 |
| NTS Area: | 83A4 |
| DLS Coordinates: | LSD 15 Sec. 6 Tp. 36 Rg. 28 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #6; (b) sample #335 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 2.390 mg/cu yd (20.0 cu ft)<br>total: 2.390 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Red Deer River-5 |
| NTS Area: | 83A5 |
| DLS Coordinates: | LSD 16 Sec. 33 Tp. 38 Rg. 27 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #8; (b) sample #309 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.230 mg/cu yd<br>total: 0.230 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Red Deer River-6 |
| NTS Area: | 83A5 |
| DLS Coordinates: | LSD 11 Sec. 13 Tp. 38 Rg. 26 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #10; (b) sample #290 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 1.242 mg/cu yd (20.0 cu ft)<br>total: 1.242 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Red Deer River-7 |
| NTS Area: | 83A6 |
| DLS Coordinates: | LSD 4 Sec. 34 Tp. 38 Rg. 22 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #11; (b) sample #260B & 260D |
| Chemical Analysis: | assays (b) (4):<br>260B:<br>35-60 mesh: nil mg/cu yd<br>260D:<br>35-60 mesh: 0.135 mg/cu yd 20.0 cu ft)<br>60-120 mesh: 1.067 mg/cu yd (20.0 cu ft)<br>-120 mesh: 1.418 mg/cu yd (20.0 cu ft)<br>total: 2.620 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Red Deer River-8 |
| NTS Area: | 82P15 |
| DLS Coordinates: | LSD 1 Sec. 3 Tp. 35 Rg. 21 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island |
| Description of Deposit: | (a) sample #12; (b) sample #233 |
| Chemical Analysis: | assays (b) (3):<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>60-120 mesh: 0.607 mg/cu yd (20.0 cu ft)<br>-120 mesh: 1.323 mg/cu yd (20.0 cu ft)<br>total: 1.930 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Red Deer River-9 |
| NTS Area: | 82P15 |
| DLS Coordinates: | LSD 3 Sec. 13 Tp. 33 Rg. 22 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #13; (b) sample #220 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 3.132 mg/cu yd (20.0 cu ft)<br>total: 3.132 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Red Deer River-10 |
| NTS Area: | 82P15 |
| DLS Coordinates: | LSD 16 Sec.30 Tp. 32 Rg. 21 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #14; (b) sample #214 |
| Chemical Analysis: | assays (b) (3):<br>35-60 mesh: 0.162 mg/cu yd (20.0 cu ft)<br>60-120 mesh: 0.675 mg/cu yd (20.0 cu ft)<br>-120 mesh: 1.647 mg/cu yd (20.0 cu ft)<br>total: 2.484 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Red Deer River-11 |
| NTS Area: | 82P10 |
| DLS Coordinates: | LSD 15 Sec. 27 Tp. 30 Rg. 21 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #14A; (b) sample #201 |
| Chemical Analysis: | assays (b) (3):<br>35-60 mesh: nil mg/cu yd (5.0 cu ft)<br>60-120 mesh: 0.432 mg/cu yd (5.0 cu ft)<br>-120 mesh: 1.080 mg/cu yd (5.0 cu ft)<br>total: 1.512 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Red Deer River-12 |
| NTS Area: | 82P7 |
| DLS Coordinates: | LSD 2 Sec. 18 Tp. 29 Rg. 20 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #15; (b) sample #189 |
| Chemical Analysis: | assays (b) (3):<br>35-60 mesh: 0.378 mg/cu yd (20.0 cu ft)<br>60-120 mesh: 5.630 mg/cu yd (20.0 cu ft)<br>-120 mesh: 9.950 mg/cu yd (20.0 cu ft); platinum noted<br>total: 15.958 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Red Deer River-13 |
| NTS Area: | 82P8 |
| DLS Coordinates: | LSD 11 Sec. 22 Tp. 27 Rg. 18 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island near upstream end |
| Description of Deposit: | (a) sample #16; (b) sample #168 |
| Chemical Analysis: | assays (b) (4):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>60-120 mesh: 0.648 mg/cu yd (20.0 cu ft)<br>-120 mesh: 2.052 mg/cu yd (20.0 cu ft)<br>total: 2.700 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Red Deer River-14 |
| NTS Area: | 82P8 |
| DLS Coordinates: | LSD 4 Sec. 3 Tp. 27 Rg. 17 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #17; (b) sample #161 & 161D |
| Chemical Analysis: | assays (b) (3):<br>161:<br>35-60 mesh: nil mg/cu yd<br>161D:<br>35-60 mesh: 0.169 mg/cu yd (16.0 cu ft)<br>-60 mesh: 6.598 mg/cu yd (16.0 cu ft)<br>total: 6.767 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Red Deer River-15 |
| NTS Area: | 82P1 |
| DLS Coordinates: | LSD 3 Sec. 18 Tp. 25 Rg. 15 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #18; (b) sample #145 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (5.0 cu ft)<br>-60 mesh: 0.108 mg/cu yd (5.0 cu ft)<br>total: 0.108 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Red Deer River-16 |
| NTS Area: | 72L13 |
| DLS Coordinates: | LSD 8 Sec. 32 Tp. 22 Rg. 14 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bar and bed |
| Description of Deposit: | (a) sample #38 |
| Mineral Analysis: | not much gold (1 cu ft, sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Red Deer River-17 |
| NTS Area: | 72L15 |
| DLS Coordinates: | LSD 5 Sec. 36 Tp. 22 Rg. 7 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; bed |
| Description of Deposit: | (a) sample #23; (b) sample #54 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (5.0 cu ft)<br>-60 mesh: 2.754 mg/cu yd (5.0 cu ft); platinum noted<br>total: 2.754 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Red Deer River-18 |
| NTS Area: | 72L16 |
| DLS Coordinates: | LSD 11 Sec. 15 Tp. 23 Rg. 1 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #26; (b) sample #3 |
| Chemical Analysis: | assays (b) (2):<br>35-60 mesh: nil mg/cu yd (5.0 cu ft)<br>-60 mesh: 0.054 mg/cu yd (5.0 cu ft)<br>total: 0.054 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Redwater River-1 |
| NTS Area: | 83H15 |
| DLS Coordinates: | LSD 13 Sec. 31 Tp. 56 Rg. 20 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #33 |
| Mineral Analysis: | gold present (2 cu ft, sand and clay) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

| | |
|---|---|
| Name: | Simonette River |
| NTS Area: | 83M1 |
| DLS Coordinates: | LSD. 14 Sec. 12 Tp. 71 Rg. 2 W. 6 M. |
| Lat./Long.: | 55-08-20; 118-10-20 |
| Elevation: | 501 |
| Geological Formation: | preglacial; Late Wisconsinan (a) |
| Type of Exposure: | river cut on Simonette River |
| Description of Deposit: | DE88-101; gravel thickness 7 m. |
| Chemical Analysis: | geochemical analyses (2):<br>1989:<br>1B: nil ppb Au<br>1988:<br>1: nil ppb Au |
| Mineral Analysis: | panned sample (2):<br>1989:<br>1B: 2? colours in 2 pans |
| References: | (a) Liverman D.G.E., Catto N.R. and Rutter N.W. 1989. Laurentide glaciation in west-central Alberta: a single (Late Wisconsian) event. Can. J. Earth Sci. vol. 26, no. 2, pp. 266-274. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Smoky River-1 |
| NTS Area: | 83E14 |
| DLS Coordinates: | LSD 13 Sec. 20 Tp. 57 Rg. 8 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river ; bed |
| Description of Deposit: | (a) sample #1; (b) sample #273 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: nil mg/cu yd (20.0 cu ft)<br>total: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Smoky River-2 |
| NTS Area: | 83L15 |
| DLS Coordinates: | LSD 7 Sec. 31 Tp. 67 Rg. 4 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island upstream end |
| Description of Deposit: | (a) sample #3; (b) sample #168 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.014 mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.095 mg/cu yd (20.0 cu ft)<br>total: 0.109 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Smoky River-3 |
| NTS Area: | 83M1 |
| DLS Coordinates: | LSD 1 Sec. 27 Tp. 71 Rg. 2 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island upstream end |
| Description of Deposit: | (a) sample #4; (b) sample #130 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.878 mg/cu yd (20.0 cu ft)<br>total: 0.878 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Smoky River-4 |
| NTS Area: | 83M1 |
| DLS Coordinates: | LSD 13 Sec. 16 Tp. 72 Rg. 2 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bed |
| Description of Deposit: | (a) sample #34 |
| Mineral Analysis: | no gold (1 cu ft, sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Smoky River-5 |
| NTS Area: | 83M8 |
| DLS Coordinates: | LSD 11 Sec. 1 Tp. 75 Rg. 2 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #5; (b) sample #93 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.149 mg/cu yd (20.0 cu ft)<br>-60 mesh: 1.931 mg/cu yd (20.0 cu ft)<br>total: 2.080 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Smoky River-6 |
| NTS Area: | 83N12 |
| DLS Coordinates: | LSD 13 Sec. 35 Tp. 76 Rg. 24 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #6; (b) sample #54 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.027 mg/cu yd (20.0 cu ft)<br>-60 mesh: 1.107 mg/cu yd (20.0 cu ft)<br>total: 1.134 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Smoky River-7 |
| NTS Area: | 84C3 |
| DLS Coordinates: | LSD 2 Sec. 1 Tp. 82 Rg. 23 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar, upstream end |
| Description of Deposit: | (a) sample #7; (b) sample #12 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.014 mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.756 mg/cu yd (20.0 cu ft)<br>total: 0.770 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

| | |
|---|---|
| Name: | Smoky River-8 |
| NTS Area: | 84C3 |
| DLS Coordinates: | LSD 4 Sec. 1 Tp. 83 Rg. 22 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #8; (b) sample #3 |
| Chemical Analysis: | assays (b) (1):<br>-60 mesh: 1.359 mg/cu yd (14.9 cu ft) |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Smoky Tower |
| NTS Area: | 83L8 |
| DLS Coordinates: | LSD. 3 Sec. 31 Tp. 62 Rg. 2 W. 6 M. |
| Lat./Long.: | 54-24-00; 118-17-15 |
| Elevation: | 1189? |
| Geological Formation: | preglacial (a) |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-100 |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>1: 40 ppb Au<br>assay (1):<br>1988:<br>1: .002 oz/ton Au |
| Mineral Analysis: | panned sample (4):<br>1988:<br>1: 1 colour in 4 pans |
| References: | (a) Richardson R.J.H. 1984. Aggregate resources of the Wapiti map area, NTS 83L. Alberta Research Council Open File Map 1983-17. |

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|---|---|
| Name: | South Saskatchewan River-1 |
| NTS Area: | 72E14 |
| DLS Coordinates: | LSD 2 Sec. 11 Tp. 12 Rg. 11 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #14 ; (b) sample #162 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 1.148 mg/cu yd (20.0 cu ft)<br>total: 1.148 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | South Saskatchewan River-2 |
| NTS Area: | 72L2 |
| DLS Coordinates: | LSD 12 Sec. 35 Tp. 12 Rg. 6 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar, upstream end point bar |
| Description of Deposit: | (a) sample #15; (b) sample #122 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.446 mg/cu yd (20.0 cu ft)<br>total: 0.446 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

| | |
|---|---|
| Name: | South Saskatchewan River-3 |
| NTS Area: | 72L2 |
| DLS Coordinates: | LSD 3 Sec. 10 Tp. 15 Rg. 5 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #16; (b) sample #87 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.014 mg/cu yd 20.0 cu ft)<br>-60 mesh: 0.716 mg/cu yd (20.0 cu ft)<br>total: 0.730 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | South Saskatchewan River-4 |
| NTS Area: | 72L9 |
| DLS Coordinates: | LSD 5 Sec. 26 Tp. 19 Rg. 2 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #17; (b) sample #28 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: nil mg/cu yd (20.0 cu ft)<br>-60 mesh: 5.981 mg/cu yd (20.0 cu ft); platinum noted ?<br>total: 5.981 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | South Saskatchewan River-5 |
| NTS Area: | 72L16 |
| DLS Coordinates: | LSD 9 Sec. 23 Tp. 22 Rg. 1 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #18; (b) sample #2 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.176 mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.756 mg/cu yd (20.0 cu ft)<br>total: 0.932 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Swan Hills |
| NTS Area: | 83J12 |
| DLS Coordinates: | LSD. 12 Sec. 29 Tp. 66 Rg. 12 W. 5 M. |
| Lat./Long.: | 54-44-40; 115-47-15 |
| Elevation: | 1326? |
| Geological Formation: | preglacial (a) |
| Type of Exposure: | road cut |
| Description of Deposit: | DE88-23 |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>1A: 25 ppb Au |
| References: | (a) Vonhof J.A. 1969. Tertiary gravels and sands in the Canadian Great Plains. Univ. of Sask. Ph. D. thesis, 279 p.<br>(b) GSC map |

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|---|---|
| Name: | Vermilion River-1 |
| NTS Area: | 73E9 |
| DLS Coordinates: | LSD 2 Sec. 14 Tp. 54 Rg. 3 W. 4 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #35 |
| Mineral Analysis: | gold present (2 cu ft, clay and sand plus some gravel) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Villeneuve |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD. 7 Sec. 20 Tp. 54 Rg. 26 W.4 M. |
| Lat./Long.: | 53-40-45; 113-48-00 |
| Elevation: | 674 (2212) |
| Geological Formation: | Sask. Sands and Gravels (a,c); Empress Fm. (b), mid-Wisconsinan (e) |
| Type of Exposure: | pit; Consolidated Concrete Ltd. |
| Description of Deposit: | MP79-6; dep. #6218 |
| Chemical Analysis: | geochemical analyses (5):<br>1988:<br>1A: 5 ppb Au<br>1B: 15 ppb Au<br>1C: 15 and nil ppb Au<br>2B: 10 ppb Au<br>assays (2):<br>1988:<br>1C: .001 oz/ton Au<br>2B: .002 oz/ton Au |
| Mineral Analysis: | panned samples (2):<br>1C: 19 colours in 2 pans<br>2B: 6 colours in 2 pans<br>microscope analyses (d):<br>C (reject sand): 1696 colours in 194 lbs.; 0.00276 oz/ton<br>D (masonry sand): 1250 colours in 61 lbs.; 0.0012 oz/ton<br>E (#11 sand): 345 colours in 55 lbs.; 0.0017 oz/ton<br>F (tailings): 545 colours in 65 lbs.; 0.0021 oz/ton |
| Physical Tests: | bulk grain-size (2):<br>1C and 2B<br>pebble petrology:<br>5b: see table, qtzite (85%), chert (5%), ls (2%) (c) |
| References: | (a) Edwards W.A.D. 1984. Aggregate resources of the St. Albert map area. Alberta Research Council Open File Map 1984-16l.<br>(b) Andriashek L.D. 1988. Quaternary stratigraphy of the Edmonton map area, NTS 83H. Alberta Research Council open file report 198804 , 27 p.<br>(c) Edwards, W.A.Dixon 1984. Geology of some gravel deposits in the Edmonton region, Alberta in The geology of industrial minerals in Canada, CIM Special Vol. 29, p. 219-222.<br>(d) Romaniuk O. 1981. Gold of the Saskatchewan Sands and Gravels. Univ. of Alta., Min. Eng. Dept., essay, 46p.<br>(e) Young R.R., Burns J.A. and Rains R.B. 1989. A re-evaluation of the age of Empress Formation gravels and sands in the Beverly Valley, central Alberta. CANQUA 1989 Program and Abstracts, p. 50. |

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|---|---|
| Name: | Villeneuve |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD. 15 Sec. 26 Tp. 54 Rg. 27 W.4 M. |
| Lat./Long.: | 53-41-55; 113-52-15 |
| Elevation: | 640 |
| Geological Formation: | Sask. Sands and Gravels (a,c); Empress Fm. (b); mid-Wisconsinan (d) |
| Type of Exposure: | pit; Consolidated Concrete Ltd. |
| Description of Deposit: | MP79-5; gravel thichness 8m. |
| Chemical Analysis: | geocemical analyses (12):<br>1A: nil ppb Au<br>1B: nil ppb Au<br>1C: nil ppb Au<br>1D: nil ppb Au<br>1E: nil ppb Au<br>1F: nil ppb Au<br>1G: nil ppb Au<br>1H: nil and nil ppb Au<br>1I: nil ppb Au<br>1J: nil ppb Au<br>1K: 130 ppb Au<br>2A: nil ppb Au |

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| | assays (2):<br>1K: .006 oz/ton<br>2A: trace |
| Mineral Analysis: | panned samples (2):<br>1H: 11 colours in 2 pans |
| Physical Tests: | bulk grain-size |
| References: | (a) Edwards W.A.D. 1984. Aggregate resources of the St. Albert map area. Alberta Research Council open file map 1984-16l.<br>(b) Andriashek L.D. 1988. Quaternary stratigraphy of the Edmonton map area, NTS 83H. Alberta Research Council open file report 198804 , 27 p.<br>(c) Edwards, W.A.Dixon 1984. Geology of some gravel deposits in the Edmonton region, Alberta in The geology of industrial minerals in Canada, CIM Special Vol. 29, p. 219-222.<br>(d) Young R.R., Burns J.A. and Rains R.B. 1989. A re-evaluation of the age of Empress Formation gravels and sands in the Beverly Valley, central Alberta. CANQUA 1989 Program and Abstracts, p. 50. |

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|---|---|
| Name: | Villeneuve |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD. 9 Sec. 25 Tp. 54 Rg. 27 W.4 M. |
| Lat./Long.: | 53-41-40; 113-50-20 |
| Elevation: | 674? |
| Geological Formation: | Sask. Sands and Gravels (a,c); Empress Fm. (b); mid-Wisconsinan (d) |
| Type of Exposure: | pit; Canadian Concrete Ltd. |
| Description of Deposit: | DE88-1; Canadian Concrete Ltd. |
| Chemical Analysis: | geochemical analyses (6):<br>1989:<br>1A: 10 ppb Au<br>1B: 10 ppb Au<br>1988:<br>2A: 575 and 220 ppb Au<br>2B: 180 ppb Au<br>2C: 10 ppb Au<br>3A: 20 ppb Au<br>assays (3):<br>1989:<br>1A: trace<br>1B: trace<br>1988:<br>2C: .002 oz/ton |
| Mineral Analysis: | panned samples (2):<br>1988:<br>2C: 21 colours in 2 pans |
| Physical Tests: | bulk grain-size |
| References: | (a) Edwards W.A.D. 1984. Aggregate resources of the St. Albert map area. Alberta Research Council open file map 1984-16l.<br>(b) Andriashek L.D. 1988. Quaternary stratigraphy of the Edmonton map area, NTS 83H. Alberta Research Council open file report 198804 , 27 p.<br>(c) Edwards, W.A.Dixon 1984. Geology of some gravel deposits in the Edmonton region, Alberta in The geology of industrial minerals in Canada, CIM Special Vol. 29, p. 219-222.<br>(d) Young R.R., Burns J.A. and Rains R.B. 1989. A re-evaluation of the age of Empress Formation gravels and sands in the Beverly Valley, central Alberta. CANQUA 1989 Program and Abstracts, p. 50. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Villeneuve |
| NTS Area: | 83H12 |
| DLS Coordinates: | LSD. 11 Sec. 16 Tp. 54 Rg. 26 W. 4 M. |
| Lat./Long.: | 53-40-10; 113-47-20 |
| Geological Formation: | Sask.Sands and Gravels (a,c); Empress Fm. (b); mid-Wisconsinan (d) |
| Type of Exposure: | pit; O.K. Construction Ltd. |
| Description of Deposit: | DE79-26 |
| Chemical Analysis: | geochemical analyses (1):<br>1A: 25 ppb Au<br>assays (1):<br>1A: .001 oz/ton Au |
| References: | (a) Edwards W.A.D. 1984. Aggregate resources of the St. Albert map area. Alberta Research Council open file map 1984-16l.<br>(b) Andriashek L.D. 1988. Quaternary stratigraphy of the Edmonton map area, NTS 83H. Alberta Research Council open file report 198804 , 27 p.<br>(c) Edwards, W.A.Dixon 1984. Geology of some gravel deposits in the Edmonton region, Alberta in The geology of industrial minerals in Canada, CIM Special Vol. 29, p. 219-222.<br>(d) Young R.R., Burns J.A. and Rains R.B. 1989. A re-evaluation of the age of Empress Formation gravels and sands in the Beverly Valley, central Alberta. CANQUA 1989 Program and Abstracts, p. 50. |

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|---|---|
| Name: | Wapiti River-1 |
| NTS Area: | 83L13 |
| DLS Coordinates: | LSD 13 Sec. 18 Tp. 68 Rg. 12 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #1; (b) sample #73 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (6.0 cu ft)<br>35-60 mesh: 0.495 mg/cu yd (18.0 cu ft)<br>-60 mesh: 0.030 mg/cu yd (18.0 cu ft)<br>total: 0.525 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Wapiti River-2 |
| NTS Area: | 83M3 |
| DLS Coordinates: | LSD 7 Sec. 11 Tp. 70 Rg. 8 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; island bar |
| Description of Deposit: | (a) sample #2; (b) sample #42 |
| Chemical Analysis: | assays (b) (1):<br>35-60 mesh: nil mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Wapiti River-3 |
| NTS Area: | 83M2 |
| DLS Coordinates: | LSD 8 Sec. 23 Tp. 70 Rg. 6 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river, island bar |
| Description of Deposit: | (a) sample #39 |
| Mineral Analysis: | no gold (1 cu ft, sand ?) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Wapiti River-4 |
| NTS Area: | 83M1 |
| DLS Coordinates: | LSD 6 Sec. 13 Tp. 71 Rg. 3 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river; point bar |
| Description of Deposit: | (a) sample #4; (b) sample #1 |
| Chemical Analysis: | assays (b) (3):<br>18-35 mesh: nil mg/cu yd (8.0 cu ft)<br>35-60 mesh: 0.378 mg/cu yd (20.0 cu ft)<br>-60 mesh: 0.905 mg/cu yd (20.0 cu ft)<br>total: 1.283 mg/cu yd |
| Physical Tests: | grain size; gravel lithology (a) |
| References: | (a) Shaw J. and Kellerhals R. 1982. The composition of Recent alluvial gravels in Alberta river beds. Alberta Research Council Bulletin 41, 151 p.<br>(b) Halferdahl L.B. 1965. The occurrence of gold in Alberta rivers. Alberta Research Council Open File Report 1965-11, 22 p. |

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|---|---|
| Name: | Watino |
| NTS Area: | 83N12 |
| DLS Coordinates: | LSD. 10 Sec. 34 Tp. 77 Rg. 24 W. 5 M. |
| Lat./Long.: | 55-43-05; 117-38-00 |
| Elevation: | 379 |
| Geological Formation: | preglacial; Middle Wisconsinan (late Pleistocene) (a) |
| Type of Exposure: | river cut; section on Smoky River |
| Description of Deposit: | DE89-9; gravel thickness 5 m. |
| Chemical Analysis: | geochemical analyses (1):<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (2):<br>1A: 2? colours in 2 pans |
| References: | (a) Liverman D.G.E., Catto N.R. and Rutter N.W. 1989. Laurentide glaciation in west-central Alberta: a single (Late Wisconsian) event. Can. J. Earth Sci. vol. 26, no. 2, pp. 266-274. |

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| Name: | Wetaskiwin |
| NTS Area: | 83A14 |
| DLS Coordinates: | LSD. 5 Sec. 29 Tp. 45 Rg. 23 W. 4 M. |
| Lat./Long.: | 52-54-30; 113-18-50 |
| Elevation: | 770? |
| Geological Formation: | Saskatchewan Sands and Gravels (a, b) |
| Type of Exposure: | pit; county pit |
| Description of Deposit: | CM80-41 |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>1A: 10 ppb Au |
| References: | (a) Sham, P. 1984. Aggregate resources of the Wetaskiwin map area. Alberta Research Council Open File Map 1984-13n.<br>(b) Stalker |

# Placer gold occurrences in Alberta

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| Name: | Whitecourt Mountain |
| NTS Area: | 83J4 |
| DLS Coordinates: | LSD. 2 Sec. 28 Tp. 58 Rg. 12 W. 5 M. |
| Lat./Long.: | 54-02-10; 115-43-20 |
| Elevation: | 1137 |
| Geological Formation: | preglacial (a,b) |
| Type of Exposure: | ski hill construction |
| Description of Deposit: | DE88-24; gravel thickness +6 m. |
| Chemical Analysis: | assays (1):<br>1988:<br>1A: .002 oz/ton |
| Mineral Analysis: | panned samples (2):<br>1988:<br>1A: 6 colours in 2 pans |
| References: | (a) Peterson B.N. 1980. Sand and Gravel resources of the Whitecourt area. Alberta Research Council Open File Report 1980-4, 40 p.<br>(b)Peterson B.N. 1984. Aggregate resources of the Whitecourt area. Alberta Research council Open File Map 1984-18d. |

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|---|---|
| Name: | Whitecourt Mountain |
| NTS Area: | 83J4 |
| DLS Coordinates: | LSD. 3 Sec. 21 Tp. 58 Rg. 12 W. 5 M. |
| Lat./Long.: | 54-01-25; 115-43-30 |
| Elevation: | 1097? |
| Geological Formation: | Paskapoo Formation (a) |
| Type of Exposure: | outcrop |
| Description of Deposit: | DE88-25; |
| Chemical Analysis: | geochemical analyses (1):<br>1989:<br>1A: nil ppb Au |
| Mineral Analysis: | panned samples (2):<br>1989:<br>1A: nil colours in 2 pans |
| References: | (a) Green, R. 1972. Geological map of Alberta. Alberta Research Council map. |

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|---|---|
| Name: | Whitemud River-1 |
| NTS Area: | 84C11 |
| DLS Coordinates: | LSD 13 Sec. 1 Tp. 88 Rg. 21 W. 5 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river, island bar |
| Description of Deposit: | (a) sample #40 |
| Mineral Analysis: | no gold (some panfuls of sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

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|---|---|
| Name: | Wildhay River-1 |
| NTS Area: | 83E9 |
| DLS Coordinates: | Sec. 21 Tp. 52 Rg. 1 W. 6 M. |
| Geological Formation: | alluvium; Recent |
| Type of Exposure: | river bank |
| Description of Deposit: | (a) sample #41 |
| Mineral Analysis: | no gold (1 cu ft, sand) |
| References: | (a)Giusti L. 1983. The distribution, grades and mineralogical composition of gold-bearing placers in Alberta. University of Alberta, M. Sc. thesis, 397 p. |

# Placer gold occurrences in Alberta

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|---|---|
| Name: | Wintering Hills |
| NTS Area: | 82P1 |
| DLS Coordinates: | LSD. 2 Sec. 28 Tp. 26 Rg. 18 W. 4 M. |
| Lat./Long.: | 51-14-30; 112-27-30 |
| Elevation: | (3375) |
| Geological Formation: | preglacial; Hand Hills Formation; Pliocene (a,b) |
| Type of Exposure: | pit |
| Description of Deposit: | DE88-9 |
| Chemical Analysis: | geochemical analyses (1):<br>1988:<br>1A: 50 ppb Au |
| References: | (a) Green, R. 1972. Geological map of Alberta. Alberta Research Council map.<br>(b) Vonhof J.A. 1969. Tertiary gravels and sands in the Canadian Great Plains. Univ. of Sask. Ph. D. thesis, 279 p. |

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|---|---|
| Name: | Wintering Hills |
| NTS Area: | 82P8 |
| DLS Coordinates: | LSD. 12 Sec. 27 Tp. 26 Rg. 18 W. 4 M. |
| Lat./Long.: | 51-15-01; 112-26-45 |
| Elevation: | (3375) |
| Geological Formation: | Paskapoo Formation (a) |
| Type of Exposure: | road cut (bedrock) |
| Description of Deposit: | DE88-10; sample DE88-WH-BR |
| Chemical Analysis: | geochemical analyses (1):<br>1: nil ppb Au |
| References: | (a) Green, R. 1972. Geological map of Alberta. Alberta Research Council map. |