

EUGENE (GENE) D. TIMMS
HARNEY, LAKE, MALHEUR, GRANT,
BAKER, CROOK & MORROW COUNTIES
DISTRICT 30

REPLY TO ADDRESS INDICATED:

- S-302
State Capitol
Salem, Oregon 97310-1347
- 1049 N. Court
Burns, Oregon 97720



OREGON STATE SENATE
SALEM, OREGON
97310-1347

Re: FYI

Susie Fletcher
3rd floor
to left

May 5, 1987

MEMO TO: SENATORS Bradbury, Chair
Cohen, Vice-Chair
Brenneman
Hamby
Kerans
Kintigh
Monroe

FROM: SENATOR Timms 378-8849

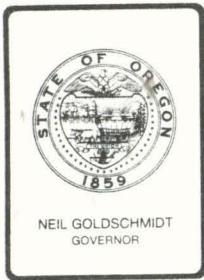
Have you ever wished for a real "gem" in your life! Well, I know where some are.

It is a real pleasure for me to extend to you a most cordial invitation to gaze at some of the most dazzling beauties in Oregon. They are on parade in the show case of the west hall way of the State Capitol Rotunda for this remaining week.

They will pulsate your heart and feet with their colorful twinkles as they perform in their various ranges of sizes and shapes.

I would appreciate it very much if you would stop by for just a peek at these Eastern Oregon beaut's. It is urgent that you make an appearance, if you haven't already, for you are one of the judges who will decide their fate of being proclaimed "The Official Oregon Gemstone".

These "gems" are presently listed in your file under HJR 4. Thank you.



Ron D

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503)229-5580

May 21, 1987

TO: Governor Goldschmidt
FROM: Don Hull, State Geologist
SUBJECT: HJR 4 - Official state gemstone

The resolution has passed the House (56-0) and Senate (28-0) to proclaim the gem quality sunstone to be Oregon's official state gemstone.

The resulting publicity should enhance tourism in Lake and Harney Counties where these stones occur and may spur mining and gem cutting.

We recommend that the resolution be signed. There is no program or fiscal impact.





NEIL GOLDSCHMIDT
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

May 6, 1987

The Honorable Eugene D. Timms
S302 State Capitol Building
Salem, Oregon 97310

Dear Senator Timms:

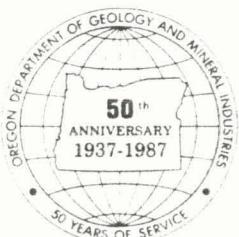
I will be available for the Senate Agriculture and Natural Resources Committee hearing on HJR 4, proclaiming sunstone as the official Oregon gemstone. At your discretion, I can either present formal testimony or simply be available to answer questions from the committee. If you would prefer testimony, please notify me a few days before the hearing so that I can prepare copies of notes and exhibits.

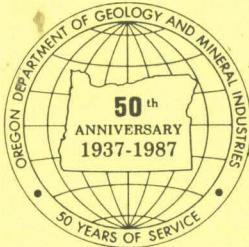
On page 23 of the enclosed issue of Oregon Geology is a brief description of Oregon sunstones. I will bring copies to the hearing or I can send them to you for earlier distribution to committee members. Please call me if you require additional information.

Sincerely,

Ronald P. Geitgey
Industrial Minerals Geologist

RPG:ab





STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
910 State Office Building, 1400 SW Fifth Avenue
Portland, Oregon 97201 phone (503) 229-5580

OREGON SUNSTONE

OFFICIAL STATE GEMSTONE

Oregon sunstone has been made the official State Gemstone by proclamation of Governor Neil Goldschmidt and by a Joint Resolution of the Oregon Legislative Assembly.

Oregon sunstones are uncommon in their composition, clarity, and range of colors, and they occur in sufficient abundance to permit sustained production of faceted gems.

Oregon sunstones, a rare gem variety of the feldspar mineral group, occur in Lake and Harney Counties where they are dug from the soil and the underlying lava flows.

Feldspars occur in a large variety of rock types, usually as small crystals that are typically opaque with rather dull colors of white or gray. Oregon sunstones, however, are large, brightly colored, transparent gem feldspars.

Feldspar crystallized in molten rock as it slowly cooled deep in the earth's crust. Slow cooling and unique composition permitted the formation of gem-grade crystals. These crystals were later erupted with the lava flow and were frozen in place as the lava cooled. Finally, disintegration of the lava by weathering freed the sunstones from the surrounding lava.

Sunstone crystals as large as 3 inches across have been found. In color, the gems range from water clear through pale yellow, soft pink, and blood red to deep blue and green. Some of the deeper colored stones have bands of varying color.

A few stones show two different colors when one looks at them from different directions. Other sunstones appear to be perfectly transparent, but when one looks at them in just the right direction, a pink to red metallic shimmer flashes from within the stone, as if from a collection of small spots or from a mirror surface. These color variations and the shimmer (often called "schiller") are caused by tiny crystals of copper metal contained in varying amounts and sizes within the stones. The darker stones contain larger amounts of copper.

For many years, collectors have prized sunstones from eastern Lake County, near Plush, Oregon, where the U.S. Bureau of Land Management has

established a free, public collecting area. Until recently, this was the only known occurrence.

Two more occurrences, in northern and southeastern Harney County, have been discovered recently, allowing the mining of more marketable gems, and the geology of the area is favorable for the discovery of more deposits.

Except for the BLM public collecting area, all these producing areas are held by mining claims and are not available for collecting without permission of the claim owners.

Sunstone collecting and mining has economic effects on Oregon's tourism and the production and sales of rough material, cut gems, and finished jewelry.

The retail value of cut sunstones currently ranges from \$15 to over \$100 per carat. Higher prices are for red, blue, or green colors, for larger or clearer stones, and for more elaborate cuts. A one-carat sunstone in a traditional round brilliant cut would be about the size of the eraser at the end of a pencil.

Some articles on sunstones

Oregon Department of Geology and Mineral Industries:

The Ore Bin, v. 34, no. 12 (Dec. 1972), p. 197-215: Oregon "sunstones" (N.V. Peterson).

Oregon Geology, v. 49, no 2 (Feb. 1987), p. 23-24: Oregon sunstones (R.P. Geitgey).

Other publications:

U.S. Bureau of Mines, Information Circular 6533 (1931): Feldspar gems (Amazon stone, moon stone, sunstone), 10 p. (I. Aitkens).

American Mineralogist, v. 51 (1966), p. 177-197: Physical properties of calcic labradorite from Lake County, Oregon (D.B. Stewart and others).

Journal of Gemmology, v. 18, no 6 (1983), p. 503-514: Heliolite, a transparent, facetable phase of calcic labradorite (F.H. Pough).

Geology, v. 13 (1985), p. 644-647: Exsolution of metallic copper from Lake County labradorite (A.M. Hofmeister and G.R. Rossman).

The Register-Guard

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EDITORIALS

LETTERS

OPINIONS

10A

Eugene, Oregon, Thursday, February 26, 1987

Gemstone? Sandwich?

The silly bug is on a rampage in the Northwest.

First, it swooped into Olympia, Wash., where — not coincidentally — the Washington Legislature is meeting. Legislators, you see, are extremely susceptible to silly bug infection.

One of the lawmakers in Olympia came down with a case so severe that he introduced a bill to designate an "official state sandwich." He wants the state sandwich to be of the Washington-smoked-salmon-on-whole-wheat variety. To be charitable, we'll assume he was unaware that the Chinook salmon is the official state fish of Oregon. It has been for more than 25 years. Perhaps the Olympia legislator can tell the difference between a Washington and an Oregon salmon. We doubt that the salmon can.

Next, the silly bug descended upon — more accurately, returned to — Salem, where (wouldn't you know it!) the Oregon Legislature is meeting. There, state Rep. Denny Jones, R-Ontario, was hit.

Jones, who at age 76 ought to be immune to silly bug infection, has introduced House Joint Resolution 4 to make the sunstone Oregon's official

state gemstone. We confess ignorance of what a sunstone looks like or feels like, but apparently it "grows" in plentiful quantities in the high desert country of southeastern Oregon, an area in Jones' oversized district.

The Oregon House, in a salute to the likable Jones and his long legislative tenure, unanimously passed HJR 4 and sent it to the Senate, where its fate is uncertain. We hope someone in the Senate will bring up the fact that Oregon already has a state motto, flower, bird, tree, fish, song, animal, dance, insect, poet and seal. It even has a state rock (the thunderegg). Respectfully, Representative Jones, isn't one rock or stone enough?

Besides, if Washington adopts a state sandwich, what's to prevent Oregon from following suit? Now there's a challenge for the daring. What could Oregon's official sandwich be? Open-faced Dungeness crab? Tillamook cheddar cheese? Oregon beefburger? Peanut butter and Oregon blackberry jam? Fircrest chicken salad? Rainbow trout on sourdough? Green beans on rye?

'Tis best to leave well enough alone. Let Washington have its sandwich. Let Oregon find a cure for the silly bug.



NEIL GOLDSCHMIDT
GOVERNOR

Department of Geology and Mineral Industries ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

Testimony prepared for the Senate Committee on
Agriculture and Natural Resources.

HJR 4 Proclaiming sunstone as official Oregon gemstone

Oregon sunstones are large, transparent, gem-quality feldspar crystals from certain lava flows in eastern Oregon. Their colors range from water clear through pale yellow, soft pink, and blood red to deep blue and green. Sunstones from eastern Lake County have been prized by collectors for many years. The recent discovery of two more occurrences in northern and southeastern Harney County has permitted mining of an increased amount of gem material, and the geology of the area is favorable for the discovery of additional deposits.

The values of cut sunstone gems range from \$15 to \$100+ per carat. In a traditional round brilliant cut, a one carat stone would be about the size of a pencil eraser. Prices at the higher end of the range are received for red, blue, or green stones, larger or clearer stones, and more elaborate cuts. This price range is comparable to other colored gems such as amethyst, citrine, blue topaz, aquamarine, and garnets.

The economic effects of sunstone mining include sales of rough material, cut gems, and finished jewelry. Some claim owners perform all of these functions themselves, but often each of the above steps involves sales to a series of different craftsmen. Visits to the free collecting site in Lake County account for a significant part of the tourism in that area, and claim owners in Harney County are considering setting up fee collecting areas on their properties.

Oregon sunstones are uncommon in their composition, clarity, and range of colors, and they occur in sufficient abundance to permit sustained production of faceted gems. Publicity as the state gemstone would increase awareness of and demand for these unique Oregon gems.

Ronald P. Geitgey
Industrial Minerals Geologist



Office of the Governor State of Oregon



PROCLAMATION

WHEREAS: A gemstone known as Oregon Sunstone, a member of the feldspar group of minerals occurs in the southeastern counties of Oregon; and

WHEREAS: Oregon Sunstones are uncommon in their composition, colors, clarity, and optical properties which enhance their beauty and value as faceted gems; and

WHEREAS: The collecting, mining, and marketing of these precious gems contributes to tourism and economic development of the high desert county of southeastern Oregon; and

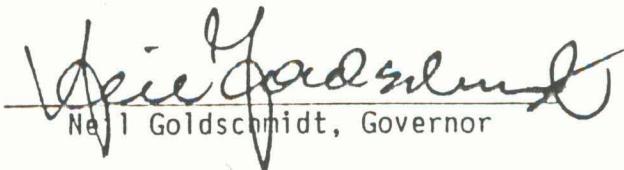
WHEREAS: The 64th Oregon Legislative Assembly proclaimed the Sunstone as the official Oregon gemstone by adopting House Joint Resolution 4.

NOW, THEREFORE, I, Neil Goldschmidt, Governor of the State of Oregon, hereby proclaim

OREGON SUNSTONE AS THE OFFICIAL STATE GEMSTONE

in Oregon and encourage all citizens to join in this observance.

IN WITNESS WHEREOF, I hereunto set my hand and cause the Great Seal of the State of Oregon to be affixed. Done at the Capitol in the City of Salem and the State of Oregon, on this day, August 4, in the Year of our Lord, One Thousand Nine Hundred Eighty Seven.



Neil Goldschmidt, Governor





NEIL GOLDSCHMIDT
GOVERNOR

Jerry dt

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

May 21, 1987

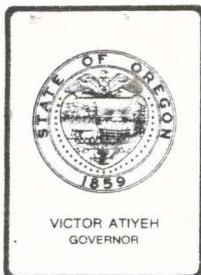
TO: Governor Goldschmidt
FROM: Don Hull, State Geologist
SUBJECT: HJR 4 - Official state gemstone

The resolution has passed the House (56-0) and Senate (28-0) to proclaim the gem quality sunstone to be Oregon's official state gemstone.

The resulting publicity should enhance tourism in Lake and Harney Counties where these stones occur and may spur mining and gem cutting.

We recommend that the resolution be signed. There is no program or fiscal impact.





Department of Geology and Mineral Industries ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

SUNSTONE - OREGON'S NATIVE GEMSTONE

Oregon sunstone is a beautifully colored gemstone that has been valued by collectors for many years. It is mined in the remote desert country of southeastern Oregon and cut by Oregon craftsmen. In the past, production of the gemstone has been limited; and, as a result relatively few people are aware of its beauty. Now sunstone mining and cutting have increased, and this unique Oregon gemstone is available in some retail stores as well as from the gem cutters themselves.

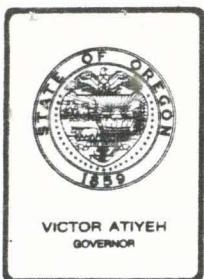
Sunstones are transparent, with colors ranging from water clear through champagne yellow, soft blushing pinks, blood reds, and extremely rare deep blues and greens. A few rare stones show two different colors when viewed from different directions. Some stones appear to be completely transparent at first, but when they are held in just the right position, they flash a pink metallic shimmer from within the stone. Gem cutters carefully match facet shapes and patterns with the stone's crystal structure to produce a gem with maximum color and brilliance. Several cuts are used, including the familiar circular brilliant cut; but one of the most distinctive is the "old mine" cut, a modified square shape with 85 facets.

Oregon sunstone is also known by the gem name "heliolite" and the mineral name "labradorite feldspar." Although feldspar is a common mineral found in many different types of rocks, it is usually opaque and dull colored. Sunstones, however, are clear, gem-quality feldspar crystals that form under a unique set of conditions as molten rock slowly cools deep in the earth's crust. When the molten rock reaches the surface, the large transparent crystals are erupted in a lava flow and frozen in place as the lava cools. As weathering slowly disintegrates the lava to gravel and soil, the sunstones are freed from the hard surrounding rock. Sunstone are mined by hand from this weathered material and from the lava itself. Most of the producing areas are private mining claims, but one collecting area is open to the public. A description of sunstones and this collecting area is given by N.V. Peterson, in the December 1972 Ore Bin, published by the Oregon Department of Geology and Mineral Industries. Sunstones occur in a few other places in the world, but only Oregon has a sufficient supply of faceting quality stones to support a gem industry.

Governor Victor Atiyeh uses mounted sunstones as presentation gifts to visiting dignitaries. These stones are faceted by members of the Columbia-Willamette Faceters Guild, and the mounts are designed and prepared by members of the Oregon Retail Jewelers Association.

Oregon sunstones are displayed in the Oregon pavillion at Expo 86 in Vancouver, British Columbia. The display includes rough stones, 24 faceted stones of various cuts and colors, and a 10 carat yellow triangular-cut sunstone pendant set in gold on a gold necklace.

For further information contact Jerry Gray, Oregon Department of Geology and Mineral Industries (503/229-5580); Sid L. Stevens, President, Oregon Retail Jewelers Association (503/926-8855); or Sid Word, member of the Columbia-Willamette Faceters Guild (503/246-8684).



Department of Geology and Mineral Industries

ADMINISTRATIVE OFFICE

1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

OREGON SUNSTONE FACT SHEET

Description

rare gem form of the mineral labradorite feldspar
also known by gem name heliolite
occurs as large, transparent crystals in lava flows
crystals over three inches long have been found
colors range from water clear through pale yellow, pink, red, and
dark green and blue
some stones exhibit different colors when viewed from different
directions
from certain directions a pink metallic shimmer is visible inside of
some stones
composed of calcium, sodium, aluminum, silicon, and oxygen
colors apparently due to variations in minute amounts of copper
in crystals
colorless and pale yellows have about 40 parts per million (0.004%)
copper
dark reds have up to 200 parts per million (0.02%) copper

Origin

crystallized in molten rock as it slowly cooled deep in earth's crust
slow cooling and unique composition permitted formation of gem
grade crystals
crystals were erupted with lava flow and were frozen in place as
lava cooled
disintegration of lava by weathering frees sunstones from surrounding
lava

Location

see attached map
private mining claims in Lake and Harney Counties, southeastern
Oregon
free public collecting area in Lake County about 20 miles north of
Plush and about 50 miles northeast of Lakeview

Further information

Contact: Jerry Gray, Oregon Department of Geology and Mineral
Industries

Popular Publications:

N.V. Peterson (1972), Oregon Sunstones, Ore Bin; v. 34, no. 12,
pp. 197-215, December, Oregon Department of Geology and Mineral
Industries

F.H. Pough (1983), Heliolite, a transparent, facetable phase of calcic
labradorite; The Journal of Gemmology, v. 18, no. 6, pp. 503-514,
April.

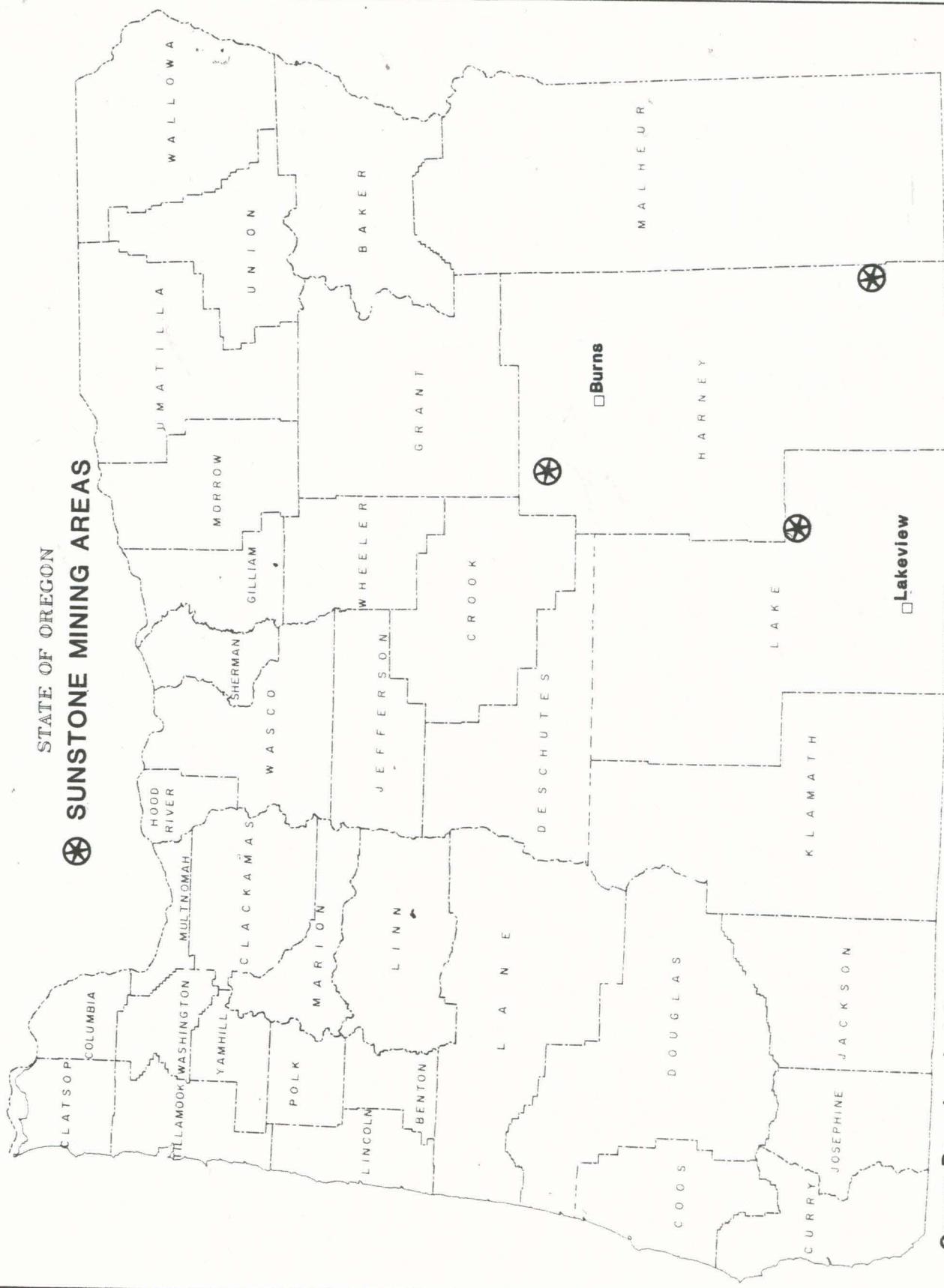
Technical Publications:

D.B. Stewart, G.W. Walker, T.L. Wright and J.J. Fahey (1966),
Physical properties of calcic labradorite from Lake County, Oregon;
The American Mineralogist, v. 51, pp. 177-197, January-February.

A.M. Hofmeister and G.R. Rossman (1985), Exsolution of metallic copper
from Lake County labradorite; Geology, v. 13, pp. 644-647, September.

STATE OF OREGON

© SUNSTONE MINING AREAS



Members of the Columbia-Willamette Faceters Guild that can supply Oregon Sunstone rough and faceted material.

Martin H. Bliefernich
315 N. Meridian Street
Newberg, Oregon 97132
(503) 538-2879

Helen Bree
11224 SW Riverwood Road
Portland, Oregon 97219
(503) 636-4755

Roger Carter
1360 NW 94th Avenue
Portland, Oregon 97229
(403) 292-5257

Al Gerdig
546 N. Stafford Street
Portland, Oregon 97217
(503) 285-3386

Mailand L. King
1824 NE 56th
Portland, Oregon 97213
(503) 282-6284

William H. Mackie
Red Hills Gallery
575 SE Hwy 99W
Dundee, Oregon 97115
(503) 538-3859

Milo and Aloha Medlock
River Bend Rock & Gem
P.O. Box 205
Spray, Oregon 97874 (503) 468-2243

Donald A. Olsen
2255 NE 79th
Portland, Oregon 97213
(503) 252-6342

Merle Reinikka
3407 SE 120th
Portland, Oregon 97266
(503) 761-7346

John E. Rieks
1704 N. Meridian
Newberg, Oregon 97132
(503) 538-8852

Louise Schwier
1535 NW 136th Avenue
Portland, Oregon 97229
(503) 646-0778

Charles and Virginia Weightman
Snow Mountain Gems
P.O. Box 831
Hines, Oregon 97738
(503) 573-7067

Sid Word
8760 SW Birch Street
Portland, Oregon 97223
(503) 246-8684

Oregon sunstones 'treasure'

By JOHN ELIOT ALLEN

Sunstones or "heliolites" are unusual and little-known but spectacular feldspar gemstones, mined in Lake and Harney counties. They vary in color from pale yellow to green to ruby-red.

The three known Oregon deposits were noted in an article by Ronald Geitgey, industrial minerals geologist for the Oregon Department of Geology and Mineral Industries. It appeared recently in Oregon Geology magazine.

One would scarcely expect that feldspar, the most abundant mineral in the crust of the Earth, could sometimes be a gemstone.

Feldspars, like most other rock-forming minerals, are silicates.

Quartz is pure silica or silicon dioxide. Orthoclase feldspar is a compound of silica with aluminum and potassium oxide.

Sunstones are plagioclase feldspar, in which sodium and calcium oxides take the place of potassium.

There are actually six mineral names applied to the members of the plagioclase feldspar group, which ranges in composition from sodium-rich albite through oligoclase, andesine, labradorite, bytownite to calcium-rich anorthite.

Between the two end-members of the plagioclase group the other four are mixtures of albite and anorthite.

Oregon sunstones are gem-quality labradorite, whose composition may vary from 30 percent to 50 percent albite and from 50 to 70 percent anorthite.

Most igneous rocks are classified and named from their feldspar content, which usually amounts to two-thirds of the rock.

For instance, granite contains orthoclase and little plagioclase; basalt is mostly made up of labradorite plagioclase.

The tiny white crystals or "phenocrysts" which occasionally speckle Oregon basalts are labradorite.

An igneous rock containing many such crystals is called a "porphyry," and has a "porphyritic" texture.

Sometimes, the liquid magma coming to the surface where it will pour out as a lava flow, cools slowly enough on its way for these crystals to have time to grow larger than normal, so that when the lava solidifies it has a "bubbly" texture.

**Time
travel**

plagioclase feldspar group, which ranges in composition from sodium-rich albite through oligoclase, andesine, labradorite, bytownite to calcium-rich anorthite.

Between the two end-members of the plagioclase group the other four are mixtures of albite and anorthite.

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An igneous rock containing many such crystals is called a "porphyry," and has a "porphyritic" texture.

Sometimes, the liquid magma coming to the surface where it will pour out as a lava flow, cools slowly enough on its way for these crystals to have time to grow larger than normal, so that when the lava solidifies it may be full of tabular crystals or phenocrysts of labradorite up to an inch across.

Such "megacrysts" in porphyritic lavas are not common, and when they are found they usually are cloudy to opaque, only rarely being clear and glassy.

Still more rarely, small amounts of copper may lend color to clear and glassy labradorite phenocrysts, and they are called sunstones.

Pale yellow sunstones contain 20 parts per million copper; green sunstones, 100 ppm; and red sunstones, 200 ppm.

They have been found in three places in Oregon: in Steens Mountain, northwest of Burns and northeast of Lakeview.

Even less frequently, enough copper is present so that the metal crystallizes in tiny parallel-oriented metallic plates within the labradorite crystals, giving it a "schiller" or reflectance of light from the flakes of metal.

All this means that sunstones, technically called "heliolites" from the Greek "helios" for sun and "lithos" for stone, make rare and attractive colored gems when they are cut and polished.

Sunstone is 5 or 6 on Moh's scale of hardness which runs from 1 for talc to 10 for diamond.

This means that sunstones can be easily scratched by ubiquitous quartz, which has a hardness of 7.

Much of the value of diamond is due to its hardness of 10; ruby and sapphire have a hardness of 9.

John Eliot Allen is emeritus professor of geology at Portland State University. Letters to Allen should be addressed to the PSU Geology Department, P.O. Box 751, Portland 97207. Bound photocopies of the first 100 Time Travel columns can be ordered from Allen for \$10, postpaid.

Goldschmidt takes act to Lakeview

5018

BY LEE JUILLERAT

LAKEVIEW — Like a traveling talk show host, Gov. Neil Goldschmidt breezed into Lakeview this morning, discussing almost anything but politics.

Performing like David Letterman to an appreciative audience of more than 100 Lake County people, Goldschmidt was at times like a child at Christmas and fortune teller envisioning Lake County's future.

"This is going to look terrific on me," said Goldschmidt when presented with a rare ruby red necklace made from sunstones, a variety of feldspar found in Lake County, which earlier this year was named the Oregon gemstone.

"There's a first lady in the state who you're not going to have to flatter very much to wear this," Goldschmidt said.

Sunstones have been collected in northern Lake County for many years. The value of the transparent sunstone currently ranges from \$15 to \$100 per caret, with higher prices

for colored and more elaborately cut stones. Don Hull, department of geology and mineral industry director, and Ron Geitgey, industrial minerals geologist, were among those participating in the sunstone dedication ceremony.

Goldschmidt, obviously delighted with the necklace, used a volcanic spear from Lakeview's Don Tracy as an opening to resume his talk show demeanor and tell stories of his time as a fortune teller during a carnival in Portland.

To complete his Lake County booty, Goldschmidt was presented with a petroglyph rubbing by Lakeview's Glenn Bogart, a high school friend of Goldschmidt.

When finally tied down to business matters, Goldschmidt was given an update on Lake County's economic development plan.

Dr. Louis Wildman, retiring Lake County Chamber of Commerce manager, stressed a desire to develop state highways 140, 31 and 395 as corridors to encourage tourism travel in Lake County and through southern

Oregon. Wildman also advocated the need for water and sewer service in northern Lake County to develop the Hunters Hot Springs Resort area, permit residential development and service Goose Lake Lumber Co.

Orval Layton, Lake County postmaster, told Goldschmidt about the county's extensive volunteer efforts. He said 51 volunteer projects involved more than 200 people in 40,000 hours of volunteer work.

"If you give us the tools, we'll do the building," Layton told Goldschmidt. Goldschmidt also discussed school finance measures and was quizzed on the 911 emergency telephone system.

Following his Lakeview stay Goldschmidt and a small group toured the proposed Quartz Mountain gold mine site west of Lakeview. If developed, the mine could employ up to 1,000 people during its development and employ 500 or more people for a 10-year life span.

MEMO

DATE: March 11, 1988

TO: Don H.

FROM: Jerry J. Gray

SUBJECT: Sunstone and Placer Gold Loses at OMSI

We have gotten a check from OMSI for the total amount of our loses;
~~2,000.00~~
\$1,955.00 for the bracelet and \$1,000.00 for Baker's gold nuggets.

The owners of the other sunstones have also gotten their checks.

JJG:ab

Office of the Governor State of Oregon



PROCLAMATION

WHEREAS: A gemstone known as Oregon Sunstone, a member of the feldspar group of minerals occurs in the southeastern counties of Oregon; and

WHEREAS: Oregon Sunstones are uncommon in their composition, colors, clarity, and optical properties which enhance their beauty and value as faceted gems; and

WHEREAS: The collecting, mining, and marketing of these precious gems contributes to tourism and economic development of the high desert county of southeastern Oregon; and

WHEREAS: The 64th Oregon Legislative Assembly proclaimed the Sunstone as the official Oregon gemstone by adopting House Joint Resolution 4.

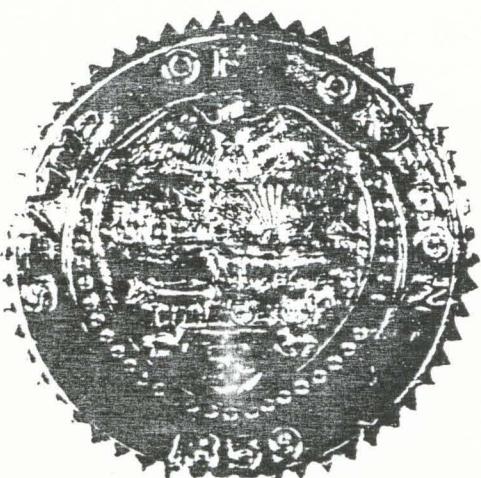
NOW, THEREFORE, I, Neil Goldschmidt, Governor of the State of Oregon, hereby proclaim

OREGON SUNSTONE AS THE OFFICIAL STATE GEMSTONE

in Oregon and encourage all citizens to join in this observance.

IN WITNESS WHEREOF, I hereunto set my hand and cause the Great Seal of the State of Oregon to be affixed. Done at the Capitol in the City of Salem and the State of Oregon, on this day, August 4, in the Year of our Lord, One Thousand Nine Hundred Eighty Seven.

A handwritten signature in black ink that reads "Neil Goldschmidt". Below the signature, the name "Neil Goldschmidt, Governor" is printed in a smaller, sans-serif font.



Memo:

To: John N

From: JSG

Subject: Insurance need to cover sunstone jewelry.

The following jewelry has been ~~borrowed~~
from Sid Stevens Jewelers borrowed through 9/16/87:

Type	Sunstone	ct	Price
Ring	# Y-1097	.75	\$ 249.00
Ring	# V-1217	.47	173.00
Ring	# V-1238	.18 (1.05 ct Dia.)	325.00
Ring (man)	# V-445	1.42	506.00
Ear Rings	# V-219	.25 ct	
	# V-286	.25 ct	86.00
Ring	# V-828	.53	236.00
Ring	C-6412	.48 (2.02 ct Dia.)	298.00
Necklace	# C-63	1.32	224.00
Necklace chain	(QFG 418 - 18")		90.00
			<hr/> \$ 2187.00
	Total		



SID & SUSAN STEVENS
DIAMONDS - JEWELRY - GLASSWARE - GIFTS
208 W. 1ST
ALBANY, OR 97321

(503) 967-8140

Jerry J Gray
9/11/87



Jerry
ED

NEW DISPLAY IN THE OREGON COUNCIL'S CASE AT THE STATE CAPITOL

Mt. Hood Rock Club of Gresham installed their first display in the Council Case at the State Capitol Building in Salem on May 21st. Lapidary materials (loaned by 18 members) representing 9 Oregon counties were arranged in the case by Bernard and Marjorie Davis and Ray and Betty Williams.

One glass shelf featured Graveyard Point and Eagle Rock Plume agate slabs and a petite sphere of Malheur County jasper; another shelf showed obsidian slabs, cabs, spheres and two miniature monuments; center shelves held two frames of Clackamas County sagenite, limb casts, petrified wood, thundereggs, Polka Dot jasper sheres, pendants, faceted sunstones and Morrow County opal; also featured was a small Mt. Hood Club logo etched in obsidian.

Many appreciative comments were made on the display of the Oregon Department of Geology and Mineral Industries (DOGAMI) which preceded the Mt. Hood Club's case. Titled "Minerals and Metals in Oregon's Economy" the DOGAMI display featured gold, industrial minerals, and rare metals (Titanium.) A unique feature was a large block of ~~sunstone~~ ^{Soapstone} - for feeling and touching - which was mounted on a wooden stand underneath the eleven foot display case. A lighted arrangement of faceted and unpolished sunstones and sunstone jewelry provided a beautiful centerpiece for the exhibit.

Lyle N. Riggs, Agent for the Council Case
715 Dian Ave. NW, Salem, OR 97304

PROMOTION PRODUCTS INC.

50 S.E. Yamhill Street
PORTLAND, OREGON 97214Portland (503) 234-0901 Seattle (206) 464-0600
San Francisco (415) 864-0600

LETTER OF TRANSMITTAL

1940

DATE	5/20/86	JOB NO.	5200
ATTENTION	6 JERRY GRAY		
RE:	OREGON PAVILION AT EXPO '86		

TO DEPT. OF GEOLOGY & MINERAL INDUSTRIES
1005 STATE OFFICE BUILDING
PORTLAND, OREGON 97201

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION
	5/20/86	1	Jar Ni ore - Soft Saprolite 1.5% Ni
"	"	1	Jar ferronickel shot 50% nickel 50% iron
"	"	3	rolled maps
"	"	1	folded map

THESE ARE TRANSMITTED as checked below:

For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS Thank you for sending these for the Oregon Pavilion at EXPO '86. These are items we weren't able to use or were left over.

COPY TO _____

SIGNED: Phyllis Auger

All Entries MUST be in Ball Point or Typed

REGISTERED NO.		POSTMARK OF	
Post Office Completion		R 289 089 880	
Customer Completion (Please Print)		1981 JUN 10 OREGON	
Reg. Fee \$	460	Special Delivery \$	
Handling Charge \$		Return Receipt \$	
Postage \$	73	Restricted Delivery \$	
Received by		<input type="checkbox"/>	Intl
Customer must declare Full value \$		<input type="checkbox"/> With Postal Insurance <input type="checkbox"/> Without Postal Insurance	
		\$25,000 Domestic Ins. Limit	
FROM	Oregon Dept of Geology & Minerals 910 State Office Building Portland, OR 97321 Milo and Aloha Medlock		
TO	P.O. Box 205 Spray, OR 97874		

PS Form 3806, RECEIPT FOR REGISTERED MAIL (Customer Copy)
June 1986
(See Information on Reverse)

JOHN H. PUGH
President

STEVE F. PUGH
Vice-President

STEATITE of SOUTHERN OREGON, INC

2891 ELK LANE • GRANTS PASS, OREGON 97526

(503) 479-3646

12-11-86

Steatite of Southern Oregon Inc. is lending this carving of a Grizzly Bear, done in green soapstone, to the Department of Geology & Mineral Industries, for exhibit in the World's Fair. This carving was done by Gene Brink of Cave Junction, Oregon, and is valued at \$750.00 wholesale. The carving was taken by Jerry Gray on December 11, 1985.

Beverly Pugh
Beverly Pugh

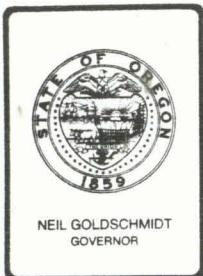
Jerry J Gray

The carving of the bear was returned and traded for a carved eagle and a large block of soapstone.

1/13/87

Jerry J Gray

John H. Pugh



**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

December 28, 1987

Ed Nelson, Marketing Manager
Oregon Metallurgical Corp.
530 - 34th Avenue Southwest
Albany, Oregon 97321

Dear Ed:

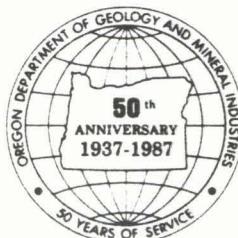
The Department would like to thank you for the loan of the titanium materials. Approximately three million people viewed the materials while displayed at Expo '86, Baker (library), Grants Pass (library), Portland, (OMSI), and the State Capital Building. The feedback that was received was very positive.

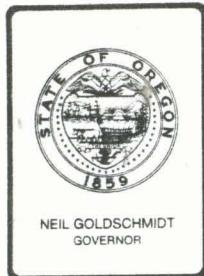
Again, we would like to thank you.

Sincerely,

Donald A. Hull
State Geologist

DAH:dg
NEL1224





**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

December 28, 1987

Beverly, John and Steve Pugh
Steatite of Southern Oregon, Inc.
2891 Elk Lane
Grants Pass, Oregon 97527

Dear Beverly, John and Steve:

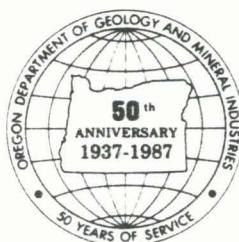
The Department would like to thank you for the loan of the beautiful soapstone sculptures and the soapstone blocks. Approximately three million people viewed the materials while displayed at Expo '86, Baker (library), Grants Pass (library), Portland, (OMSI), and the State Capital Building. The feedback that was received was very positive.

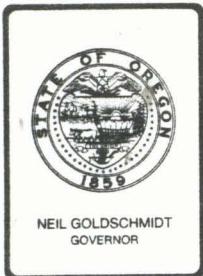
Again, we would like to thank you.

Sincerely,

Donald A. Hull
State Geologist

DAH:dg
PUG1224





**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

December 28, 1987

Charles and Virginia Weightman
Snow Mountain Gems
P.O. Box 831
Hines, Oregon 97738

Dear Charles and Virginia:

The Department would like to thank you for the loan of four beautifully faceted sunstones. Two of the stones (C-26 and C-146) are being returned.

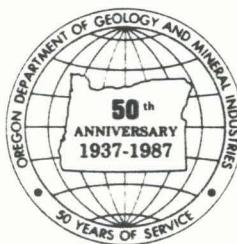
Approximately three million people viewed the sunstones while displayed at EXPO '86, Baker (library), Grants Pass (library), Portland (OMSI) and the State Capital Building. The feedback that was received was very positive.

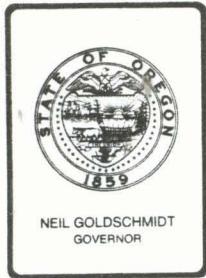
Again, we would like to thank you.

Sincerely,

Donald A. Hull
State Geologist

DAH:dg
GRAY/MOO1217





Department of Geology and Mineral Industries ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

December 28, 1987

Milo and Aloha Medlock
River Bend Rock and Gems
P.O. Box 205
Spray, Oregon 97874

Dear Milo and Aloha:

The Department would like to thank you for the loan of six beautifully faceted sunstones. Four of the stones (1,5,7 and 10) are being returned.

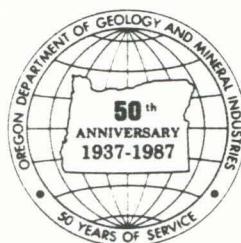
Approximately three million people viewed the sunstones while displayed at EXPO '86, Baker (library), Grants Pass (library), Portland (OMSI) and the State Capital Building. The feedback that was received was very positive.

Again, we would like to thank you.

Sincerely,

Donald A. Hull
State Geologist

DAH:dg
GRAY/MOO1217





NEIL GOLDSCHMIDT
GOVERNOR

**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

December 18, 1987

Mrs. Gayle Moore/Ryan
1431 Southwest 28th
Hillsboro, Oregon 97123

Dear Gayle:

The Department would like to thank the Columbia Willamette Faceter's Guild for the loan of nine beautifully faceted sunstones. Three of the stones are being returned to Louise Schwier along with a check for \$300.00. The check is for the triangular stone which was mounted in the necklace.

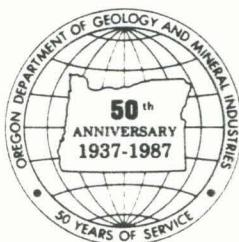
Approximately three million people viewed the sunstones while displayed at EXPO '86, Baker (library), Grants Pass (library), Portland (OMSI) and the State Capital Building. The feedback that was received was very positive.

Again, we would like to thank the Guild.

Sincerely,

Donald A. Hull
State Geologist

DAH:dg
GRAY/MOO1217



Sunstone

What a shame! The governor should have done some research before naming the sunstone as our state official gem. If possible it may be "spot" located in approximately three areas of Oregon and private claims may be put on it, if found.

On the other hand, our state is known for wood. What would be more appropriate than to have as our state gem, petrified, agatized wood?

Jeweler-quality agatized wood is found from our beaches to the Snake River and Columbia River to the California border. Any federal or state lands with petrified wood on them may not be put under claim. You cannot use any kind of power tools for collecting. Picks, shovels and physical labor plus limited poundage is allowed. It's for the public. Rockhounds from all over our United States come here to collect samples of our choice selection of different kinds of petrified wood.

**Jan Dery
Turner**

Oregonian 11/19/07

Sunstone bracelet worth \$2,700 stolen from OMSI display case

Designed and fashioned by volunteers, the jewelry boasts a variety of colors

By ROLLA J. CRICK
of The Oregonian staff

the Retail Jewelers Association furnished the gold set for the stones.

Disappearance of the bracelet, featuring 16 one-carat sunstones, plus a watch glass containing Placer gold nuggets valued at \$1,000, was discovered Friday after an OMSI staff member noted that two signs in the case had fallen.

Gray checked items in the case against a detailed inventory sheet and discovered the bracelet and nuggets were gone.

Detective Kenneth E. Lawitzke of the Portland Police Bureau determined that the case lock had been jimmied.

The sunstones and various minerals were part of a display at OMSI between Oct. 14 and Nov. 15 in celebration of the 50th anniversary of the Oregon Department of Geology and Mineral Industries.

Gray said sunstone was a feldspar and that there are three recognized minable deposits for sunstone in Oregon. One is near Plush northeast of Lakeview and two are in Harney County.

"It is hard work to get the stones," Gray said.

said. "One woman mined all summer on her knees with an ice pick."

The bracelet incorporated sunstones from all three deposits. The colors range from clear to champagne yellow, pink and bright red. There also are greens and blues, according to Gray.

Michelle Marquart, spokeswoman for OMSI, said the case containing the gems was in the main lobby area. "The lock had been opened to gain entry, and the items in the case had been rearranged so the gems wouldn't be missed," she added.

She also said it was not known when the theft occurred. The lobby is usually crowded during the daytime, and there are evening classes at OMSI when the area would be less crowded.

"It makes one sick for someone to rip these items off like that," Gray said. "People donated the stones and the work to facet them and put them into a bracelet. That bracelet was very beautiful because it had all of the colors." Two sunstone necklaces that were in the display were not taken. One of them, with 10

yellow triangular stones, was on display at Expo 86 in Vancouver, British Columbia, and an estimated 6 million people who visited the Oregon Pavilion saw the stones.

OMSI had sunstones for sale during the local display. OMSI was one of four locales where the minerals and gems were put on display by the Oregon Department of Geology and Mineral Industries. The other locations were in Baker, Grants Pass and the Capitol in Salem.

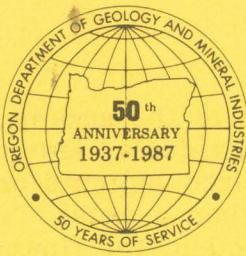
The sunstone was declared the official state gem Aug. 4 by Gov. Neil Goldschmidt. Gray said there were enough sunstones in Oregon "to provide a world market for years, and we see a great possibility of getting into world trade," Gray added. "It could open up work for faceters in Eastern Oregon, and that makes it important because there would be new jobs."

Columbia Willamette Faceters Guild earlier

provided a number of clear sunstones for Oregon governors to give to visiting dignitaries.

Gov. Vic Atiyeh gave away several, and Gold-

schmidt has a supply, Gray said.



STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
910 State Office Building, 1400 SW Fifth Avenue
Portland, Oregon 97201 phone (503) 229-5580

OREGON RECREATIONAL GOLD MINING

Answers to questions most frequently asked by "weekend miners"

Does gold occur in Oregon?

Lode and placer gold has been mined from many parts of the State. The southwestern and northeastern corners of the State have the highest production of both lode and placer gold. Minor output has come from the other parts of the State.

Where can I obtain information about past gold mines and mining, including maps?

The following can be purchased from the Portland, Grants Pass, and Baker offices of the Department of Geology and Mineral Industries (see next page):

- (1) Gold and Silver in Oregon (Bulletin 61), 1968, 337 p., \$17.50.
- (2) Oregon's Gold Placers (Misc. Paper 5), 1954, 14 p., \$1.00.
- (3) Skin Diving for Gold in Oregon (Ore Bin, Apr. 1961), 8 p., \$1.00.
- (4) Golden Years of Eastern Oregon (Ore Bin, Apr. 1978), 14 p., \$1.00.
- (5) Special Gold Issue (Ore Bin, April 1973), 16 p., \$1.00.
- (6) Geology, Mineralization, and Mining Field Guides--Cascade Range (Ore Bin, June '77, Dec.'77, May '78, June '78), \$1.00 per issue.
- (7) Recreational Gold Packet (items 2, 3, 4, 5, and 6 above plus one 8½x11-inch mineral-localities map and a list of Department publications), \$5.00.

Where can I obtain information about prospecting for gold?

The U.S. Geological Survey has three leaflets on the subject available. They are entitled Gold, Prospecting for Gold, and Suggestions for Prospecting. Copies (any number) may be obtained without charge from the U.S. Geological Survey, Books and Open-File Reports, Federal Center Building 41, Box 25425, Denver, CO 80225. Single copies may also be requested from the Public Inquiries Office, U.S. Geological Survey, 678 U.S. Courthouse, West 920 Riverside Ave., Spokane, WA 99201, phone (509) 456-2524.

What lands are open for prospecting and mining?

Land ownership for the surface and for the mineral rights can be determined from the local County Assessor's maps. Patented mining claims are treated the same as any other privately owned land. Most U.S. Forest Service and U.S. Bureau of Land Management lands, shown on their published maps, are open for prospecting; however, much of the better lode and placer ground will have been staked.

Do I need permission to prospect and stake a claim on public lands?

On federal lands that have not been withdrawn from mineral entry, permission is not needed to prospect or stake a mining claim. State-owned lands, however, fall under different rules and may require a prospecting permit. For information, contact the Oregon Division of State Lands, 1600 State Street, Salem, OR 97310, phone (503) 378-3805.

How can I tell if an area has been staked?

All unpatented mining claims are recorded in the local County Courthouse and with the U.S. Bureau of Land Management, 825 N.E. Multnomah Street (P.O. Box 2965), Portland, OR 97208, phone (503) 231-6281. The BLM records may be easier to work with than the county's.

Suppose I find some gold, what then?

The gold is yours to keep, give away, or sell. There is no limit to the amount. The U.S. Government no longer buys gold. Gold may be sold to individuals, jewelry manufacturers, or gold buyers. Best prices are received for good-sized nuggets or visible gold mineral specimens which have a collector's value rather than a metal value. There is no fixed price for gold. The current price published in the financial sections of many newspapers should serve as a guide.

What are the rules and regulations for gold mining?

The U.S. Bureau of Land Management has printed Staking a Mining Claim on Federal Lands for free distribution. For sale at most office-supply stores are two forms used to record either a lode or a placer claim. Each form has a brief synopsis of the mining law. The forms are Form No. 830 (Notice of Mining Location--Vein or Lode Claim), and Form No. 897 (Notice of Location of Placer Claim). The forms are 45 cents each. If prospecting or mining is to go beyond the hand-tool stage, then the U.S. Forest Service and the U.S. Bureau of Land Management may require a notice of intent or a plan of operation, and the Department of Geology and Mineral Industries may require a surface mining permit, depending on the size of the proposed mining development.

Most gold panners and those with small dredges, however, are not interested in locating a mining claim and desire only to do some recreational placer mining. Such people do not need any permits, and unless they unduly muddy the waters in a stream, there will be no problems. A report, which gives the best time to work in a stream, entitled Recreational Mining Can Be Compatible with Other Resources, may be obtained from the Environmental Management Section of the Oregon Department of Fish and Wildlife, 506 SW Mill Street, P.O. Box 3503, Portland, OR 97208, phone (503) 229-5408. The Quartzville Corridor near Sweet Home, Linn County, is open for recreational gold mining.

Care must be taken not to trespass on valid mining claims or privately owned land. Good outdoor manners and a concern for the environment are essential.

Where can I have my samples assayed for gold?

The Department does not provide in-house assaying services. The public is encouraged to send samples directly to private labs--a list of these is available from the Department upon request. The labs were selected for the ability to provide high-quality results at reasonable cost.

Rocks and minerals also may be identified at the U.S. Bureau of Mines, 1450 Queen Street SW, P.O. Box 70, Albany, Oregon 97321, phone (503) 967-5809.

The Oregon Department of Geology and Mineral Industries has its main office at 910 State Office Building, 1400 SW Fifth Avenue, Portland, OR 97201, phone (503) 229-5580; and field offices at 312 SE "H" Street, Grants Pass, OR 97526, phone (503) 476-2496; and 1831 First Street, Baker, OR 97814, phone (503) 523-3133. You are invited to visit the field offices to obtain detailed information on local gold diggings. Geologic maps and a wide variety of bulletins are available at all three of the Department's offices.

Publication Mail Orders: Allow 1 month for delivery. Payment must accompany orders under \$50. Foreign orders: Please remit in U.S. dollars. All sales are final.

12-20-85

Columbia W. Faceters Guild Sunstone

- ✓ #4-11mm 5.1cts. Zircon Cut \$50 clear yellow (straw)
- ✓ #10-14mm 8.8cts Pomm Pomm \$85 clear yellow ..
- ✓ #17-11.7mm 6cts Square Mod. Cardinal \$55 clear yellow
- ✓ #23-18x12mm 14.2cts Rectangle Spiral \$120 clear yellow
- ✓ #31-10.5mm 4.25cts Xefagon 6 Ray Star \$48 clear yellow
- ✓ #41-13.2mm 9.75cts Square Old Mine \$90 clear straw
- ✓ #42-13.7x7.2mm 4.2cts Bullet Step Cut \$48 clear straw
- ✓ #65-8.7x7.7mm 2.2cts. Rectangle Base \$20 clear straw

To Be mounted:

- ✓ #68-14.2mm 18.25cts. Triangf Tri. Trap \$100 clear straw

~~deco~~

- Louise Schwier 646-0778-643-1942
- ✓ #10-12x8mm 2.85cts Original Rect. cut. \$94 pk. Shiller
- ✓ #101-5.75mm .65cts. Mod. Round Br. Bounce \$43 lt. violet
- ✓ #107-9.5mm 3.2cts. 469 Triangle \$240 Red w/green corners
- ✓ #108-8.5mm 2.15cts. S. B. Raeline Cut Mod. \$397 Red
- ✓ #116-9mm 2.65cts. Sunflower \$175 lt. red/orange
- ✓ #122 6.5mm 1.6cts. Tri-Step Cut. #819 \$106 Pink/or.

Address:

1535 NW 136th

Portland, Oregon 97229

Jerry & Jerry 12/20/85

15 Total Stones

Total Value \$1655

Louise Schwier 12-20-85



NEIL GOLDSCHMIDT
GOVERNOR

**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

December 18, 1987

Ms. Louise Schwier
6164 Southwest Lombard
Beaverton, Oregon 97005

Dear Louise:

The Department would like to thank you for the loan of the six beautiful faceted sunstones, the specimen of basalt with the large sunstone with schiller, and the large triangular yellow sunstones which was mounted in a gold necklace.

Three of the stones, the basalt specimen, and a check for \$300.00 (from French's Jewelers) are being returned.

During the time the materials were being displayed 3 million people saw them. All the feedback that was received was very positive.

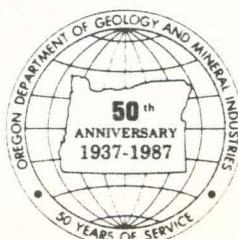
Again we thank you.

Sincerely,

Donald A. Hull
State Geologist

DAH:dg
GRAY/SCH1217

Enclosure





NEIL GOLDSCHMIDT
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

November 4, 1987

Gil Soyster
Box 47628
2605 State Street
Salem, Oregon 97310

Dear Gil:

Grover Sparkman of the Columbia-Willamette Faceter's Guild would be interested in setting up a talk on gem faceting. His address is 4927 SE Haig, Portland, Oregon 97205, phone 775-6725.

Enclosed is an early report on minerals in Tillamook County.

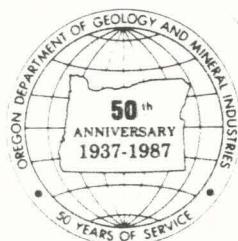
Sincerely,

Jerry J. Gray
Economic Geologist

JJG:ab

Enclosure

xm:soy11-4



Lake County sunstone featured in magazine

5018

Lake County and its sunstones received some publicity in the October edition of Oregon Geology, published by the Oregon Department of Geology and Mineral Industries.

The magazine contains a brief write-up about the sunstone and its recent designation as the official state gemstone. It

discusses the characteristics of the sunstone as well as the availability of the stone near Plush.

Another article in the magazine describes how a three-ton boulder of Lake County basalt which contained sunstones was selected from a site in Lake County and transported to Philadelphia where it will be

placed with rocks from the other 49 states in Constitution Wall in Philadelphia's Independence National Historic Park.

A series of five photographs accompanies the latter article and details the boulder's trip from Lake County and its preparation for the trip to Philadelphia.

Bracelet stolen from museum

PORTLAND (AP) — An unusual bracelet fashioned from Oregon sunstones, the official state gem, has been stolen from a locked display case at the Oregon Museum of Science and Industry.

The bracelet, with an approximate value of \$2,700, featured 16 one-carat sunstones in a gold setting.

Part of a month-long display honoring the 50th anniversary of the Oregon Department of Geology and Mineral Industries, the bracelet had been on its way to the permanent collection of the Smithsonian Institution in Washington, D.C.

The theft was discovered Nov. 13 when a museum staff member noticed two signs in the

display case had fallen. An inventory determined that a watch glass containing Placer gold nuggets, worth \$1,000, was also missing.

A Portland Police Bureau detective later found that the case lock had been jimmied.

OMSI spokeswoman Michelle Marquart said the case containing the gems was in the museum's main lobby area. "The lock had been opened to gain entry, and the items in the case had been rearranged so the gems wouldn't be missed," she said.

She added it was not known when the theft occurred.

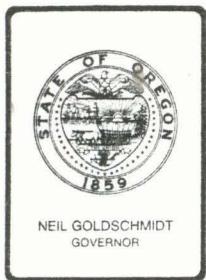
Department geologist Jerry Gray said, "It's a serious loss, particularly from the standpoint of all of the volunteer work done in design and fashioning of the bracelet."

He said the gems had been donated by the Columbia Willamette Faceters Guild and the setting had been furnished by the Retail Jewelers Association.

The sunstone was declared Oregon's official state gem on Aug. 4 by Gov. Neil Goldschmidt. Gray explained that the sunstone is a feldspar, and there are just three deposits of the mineral in Oregon, one northeast of Lakeview near Plush, and two in Harney County.

The colorful bracelet incorporated sunstones from all three deposits, with shades ranging from clear to champagne yellow, pink, bright red, green and blue.

"It is hard work to get the stones," Gray said. "One woman mined all summer on her knees with an ice pick."



Department of Geology and Mineral Industries ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

October 20, 1987

The Honorable Mark O. Hatfield
711 Hart Senate Office Building
Washington D.C. 20510

Dear Senator Hatfield:

The 1987 legislature passed a resolution naming the Oregon sunstone as our official state gemstone. Governor Goldschmidt has recently issued the enclosed proclamation.

The Oregon Retail Jewelers Association has worked with us to prepare several striking pieces of jewelry. We would appreciate your help in encouraging the Smithsonian Museum of Natural History to permanently display these large mountings.

Can you suggest an individual to contact at the Museum to discuss such an arrangement? I will be in Washington, D.C. from November 16th to 19th.

Sincerely,

Donald A. Hull
State Geologist

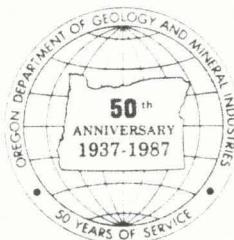
DAH:ab

Enclosure

CC: Tom Imeson
Gail Achterman
Dianne Perry

xm:hat10-20

becc: Jerry G



SNOW MOUNTAIN GEMS
Box 831
HINES, ORE 97738

INVOICE NO.

1014

INVOICE

SOLD TO <i>DEPT OF GEOLOGY & MINERAL</i>			SHIPPED TO <i>INDUSTRIES</i>		
STREET & NO.			STREET & NO.		
CITY	STATE	ZIP	CITY	STATE	ZIP
CUSTOMER'S ORDER		SALESMAN	TERMS	F.O.B.	DATE 4-10-86
0-588	CLEAR HELIOLITE		BARION OLD MINE 1.35 CT		13 50
V-1088	CLEAR HELIOLITE	"	" "	1.32 CT	13 20
C-585	" "	" "	" "	1.32 CT	13 20
					13 50
					TOTAL 39 90
DONATED FOR GOVERNOR TO GIVE AWAY					
<i>Jerry J. Gray</i>					

REDIFORM
7H 722

**GOVERNOR'S
SUNSTONES**
TO JERRY GRAY
Date 4-17-1986
Name _____

9162

Address _____

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RETD.	PAID OUT
---------	------	--------	--------	----------	-------------	----------

QUAN.	DESCRIPTION	AMOUNT
1	PREVIOUS	
2	8 STONES	
3		
4	TODAY	
5		
6	23 STONES	
7		
8	7mm Ø APPROX 1.25 EA	
9		
10		
11		
12		

Jerry J. Gray

Customer's
Order No.

Rec'd
By

KEEP THIS SLIP FOR REFERENCE
5H 240 Rediform

THE LAST WORD
246-8684
Date JAN 30 1986

Name TO JERRY GRAY
Address ORE DEPT GEOLOGY
\$ MINERAL INDUSTRY

QUAN.	DESCRIPTION	AMOUNT
1	ON LOAN TO SHOW GOVERNOR'S	
3	ASSISTANT	
4	1-FRAME OF COLORED	
5	SUNSTONES (12)	
6	#285 OLD MINE 1.3 CT PINK	
7		
8	#737 CASH REC. 3.9 CT	
9		
10	#107 PEAR 7.7 CT	
11		
12	<i>Jerry J. Gray</i>	

Customer's
Order No.

Rec'd
By

KEEP THIS SLIP FOR REFERENCE
5H 240 Rediform

Ron & Sally Freed, ~~Bob~~

602 NW 18th, Avenue Loop
Lamont, WA 98607

(206) 834 - 2753

Ron is the ~~president~~ ^{president} of
Columbia - Willamette Faceters Guild
he and his wife
and I will be at the
President Ball on July 12, 1986

Members of the Columbia-Willamette
Faceters Guild ~~are helping~~
along with faceters from California,
Florida, Louisiana, Pennsylvania,
Texas, and Washington ~~are~~
are producing the cut
sunstone for mounting by
the Oregon State Jewelers
Association for the Oregon
Sunstone gifts.



VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries

ADMINISTRATIVE OFFICE

1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

OREGON SUNSTONE FACT SHEET

Description

rare gem form of the mineral labradorite feldspar
also known by gem name heliolite
occurs as large, transparent crystals in lava flows
crystals over three inches long have been found
colors range from water clear through pale yellow, pink, red, and
dark green and blue
some stones exhibit different colors when viewed from different
directions
from certain directions a pink metallic shimmer is visible inside of
some stones
composed of calcium, sodium, aluminum, silicon, and oxygen
colors apparently due to variations in minute amounts of copper
in crystals
colorless and pale yellows have about 40 parts per million (0.004%)
copper
dark reds have up to 200 parts per million (0.02%) copper

Origin

crystallized in molten rock as it slowly cooled deep in earth's crust
slow cooling and unique composition permitted formation of gem
grade crystals
crystals were erupted with lava flow and were frozen in place as
lava cooled
disintegration of lava by weathering frees sunstones from surrounding
lava

Location

see attached map
private mining claims in Lake and Harney Counties, southeastern
Oregon
free public collecting area in Lake County about 20 miles north of
Plush and about 50 miles northeast of Lakeview

Further information

Contact: Jerry Gray, Oregon Department of Geology and Mineral
Industries

Popular Publications:

N.V. Peterson (1972), Oregon Sunstones, Ore Bin; v. 34, no. 12,
pp. 197-215, December, Oregon Department of Geology and Mineral
Industries

F.H. Pough (1983), Heliolite, a transparent, facetable phase of calcic
labradorite; The Journal of Gemmology, v. 18, no. 6, pp. 503-514,
April.

Technical Publications:

D.B. Stewart, G.W. Walker, T.L. Wright and J.J. Fahey (1966),
Physical properties of calcic labradorite from Lake County, Oregon;
The American Mineralogist, v. 51, pp. 177-197, January-February.

A.M. Hofmeister and G.R. Rossman (1985), Exsolution of metallic copper
from Lake County labradorite; Geology, v. 13, pp. 644-647, September.



STATE OF OREGON

INTEROFFICE MEMO

TO:

Jerry -
Bew

DATE:

FROM:

SUBJECT:

who is advertising Sunstone
jewelry.

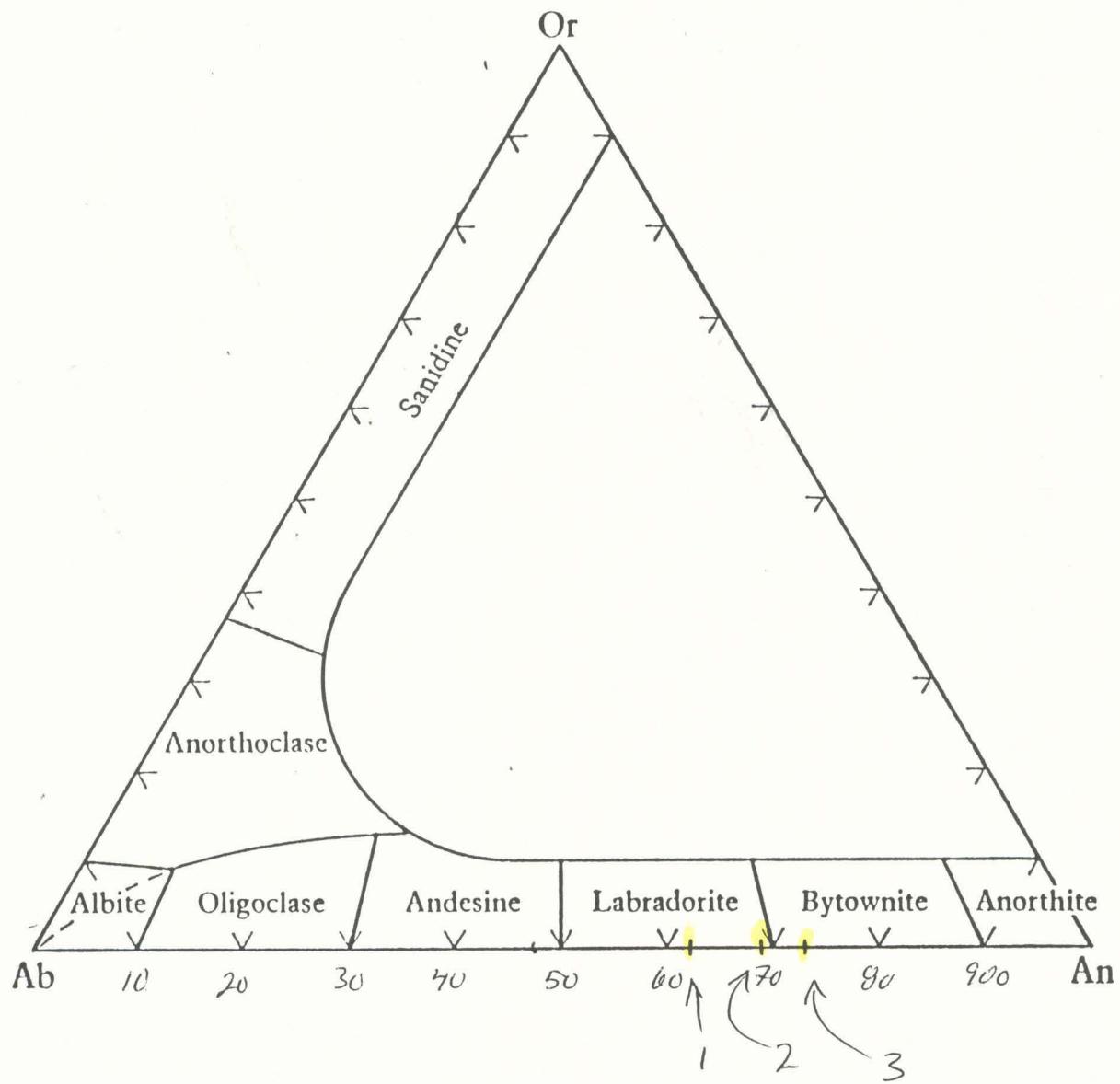
Virginia Christie (479-4338), who made
arrangement for the display in Grant Pass,
wants to know what jewelers handle
sunstone jewelry - and how local
Grant Pass jewelers can get
started handling it. Jewelers have asked her

so call her and tell her who
to contact. I told her about Sid
in Albany, but I don't know who
else sells the stone commercially.
Maybe we have to take the
display other places!!!

Bew (i)

Oregon Sunstones

XRF analyses



1	Matlock	$An_{62} Ab_{38}$
2	Rabbit Hill	$An_{69} Ab_{31}$
3	Weightman	$An_{73} Ab_{27}$

Lake County Examiner

NUMBER 28

THURSDAY, August 13, 1987

25 CENTS

Goldschmidt discovers the "ore" in Oregon

By SHARON LIDDYCOAT

Lake County Examiner
There's gold in them thar
hills. Enough says the Quartz
Mountain Gold Corporation rep-
resentatives, to probably make
this the single biggest economic
boon to eastern Oregon.

Last week's visit by Oregon
Governor Neil Goldschmidt was
highlighted by the recognition of
two different mining operations,
sunstones and gold.
Goldschmidt signed a pro-
clamation making the Oregon
Sunstone or Plush Diamond, the
state's official gemstone.
Sunstones mined from the Plush
area were given to the governor
to commemorate his visit. He
then traveled to Quartz Moun-
tain to tour the Crone Hill mine

says it could easily become one
of the top 10 mines in the United
States, possibly in the top five.
The mine is a joint venture be-
tween Quartz Mountain Gold
Corporation and Galactic
Resources Inc. Operator is
Wavecrest Resources Inc. a
wholly owned subsidiary of
Quartz Mountain Gold Corpora-
tion.

The days of finding a solid
vein of gold appear to have faded
into history. Gold found on
the company's 10,000 acres or so
are visible sometimes only to
a lab technician. Tests have
shown one ton of rock at the site
will produce one-tenth of an
ounce of gold.

Sounds like a pretty poor yield
but that dime sized piece of gold
is pretty exciting in an industry
that considers three or four
hundredths of an ounce a major
find.

(Continued on Page 6)



Quartz Mountain is consid-
ered the largest modern gold
strike in Oregon. Will Rohtert,
vice president of exploration,

Discover the “ore” in Oregon



Sunstones for Goldschmidt

Don Tracy gives Governor Neil Goldschmidt a collection of sunstones in the rough during his Tuesday, Aug. 4 visit to Lakeview and Lake County. Following the presentation in the Community Center, the governor saw another example

of the county's treasures when he visited the Quartz Mountain gold exploration project. (Examiner photo by Sharon Liddycoat)

Oregon's Industrial Minerals on Display

2018



Geologist Gerry Gray and department employee Beverly Vogt installed display in the County Library.

Wonder about some of the industrial uses of the mineral mined in Oregon?

Well, that they range all the way from the titanium from which airplanes and jet engines are made to the gold from Baker that goes into coinage and jewelry. And the brilliant beauty of sunstones is somewhat surprising.

But the Oregon Department of Geology and Mineral Industry makes it visual in a display that is

of the veteran Baker attorney and Senator, William H. Strayer. He was one of the first to recognize the state's minerals as a asset. A "no-see-em" specimen is of the latest gold ore being mined—near Lakeview, low grade volcanic-thermal ore.

A series of commodities important to the economy is the message of the display. Titanium is well represented in raw-created

product form as well as in airplane metal and artifical human joints.

Nine industrial minerals are shown.

The state geologist noted that the sunstone industry is developing big enough for the world gemstone market.

Soapstone sculpture from Southern Oregon is also present.

The display contains about fifty items with descriptive material.



Geologist Gerry Gray and department employee Beverly Vogt installed display in the County Library.

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Well, that they range all the way from the titanium from which airplanes and jet engines are made to the gold from Baker that goes into coinage and jewelry. And the brilliant beauty of sunstones is somewhat surprising.

But the Oregon Department of Geology and Mineral Industry makes it visual in a display that is in the two lobby windows of Baker County Library this summer.

Installing the display in Baker, after it had been in the Oregon State Capitol first, were Geologist Gerry Gray and Public Relations/editor Beverly F. Vogt, assisted by Secretary Mrs. J. Durflinger of the Baker Eastern Oregon Field office of the Department.

"Minerals and Metals in Oregon's Economy," the theme of the display, was created originally for Expo 86, so it is a quality display.

Over Jubilee

The display will be open at the Library Lobby during the Miner's Jubilee and is quite educational. It will be on display several weeks into August.

There are three mines in Oregon that commercially produce sunstones, explained Mr. Gray, and Oregon Facetor's Guild donated the craftsmanship going into the display. The surface mines yielding the gems are in Lake and Harney counties.

The gems, which are too soft for the wear and tear of a ring, are most beautiful for broaches and earrings. The sparkling color comes from the magic of trace metals such as copper in crystals.

Several specimens of gold ore are also educational in this display which, incidentally, helps to commemorate the 50th anniversary of the Department, which appropriately was the legislative work on behalf of Eastern Oregon

of the veteran Baker attorney and Senator, William H. Strayer. He was one of the first to recognize the state's minerals as an asset. A "no-see-em" specimen is of the latest gold ore being mined—near Lakeview, low grade volcanic-thermal ore.

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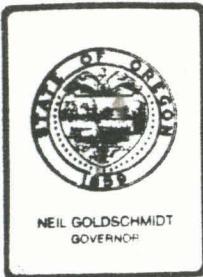
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The display contains about fifty items with descriptive material.



Department of Geology and Mineral Industries

ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

TO: Carol Splettstaszer
FROM: Ron Geitgey
SUBJECT: Sunstone Proclamation

July 20, 1987

Whereas, there occurs in the southeastern Counties of the great and sovereign State of Oregon a gemstone known as Oregon Sunstone, a member of the feldspar group of minerals; and

Whereas, Oregon Sunstones are uncommon in their composition, colors, clarity, and other optical properties which enhance their beauty and value as faceted gems; and

Whereas, the collecting, mining, and marketing of these precious gems contributes to the tourism and economic development of the high desert country of eastern Oregon; now, therefore,

Be it Resolved by the House Joint Resolution, and the Governor's Proclamation, that the Oregon Sunstone be proclaimed as the Official State Gemstone.

Signed in Aug. 9, 1987

Carol:

I think this answers the questions of what?, where?, and why?, with a minimum of technical jargon. Since I am not familiar with the protocol and punctuation of such documents, please make any necessary modifications, especially in the final paragraph.

Post-it "routing request pad 7664
BRAND

ROUTING - REQUEST

Please

- READ
- HANDLE
- APPROVE
- and
- FORWARD
- RETURN
- KEEP OR DISCARD
- REVIEW WITH ME

To 7/18

Jerry G.

I need the
final proclamation to
send to Cong. telegr.

Date _____

From Q



STATE OF OREGON

INTEROFFICE MEMO

TO: Ron G.

DATE: July 17, 1986

FROM: John B.

SUBJECT: Sunstone Article

In Oregon Geology next year we will probably have two sunstone articles. The first article will appear probably in January or February will describe sunstones in general and provide background information. A second article following the close of the legislature will hopefully describe once again the sunstone but also will describe elevation of the sunstone to the status of the State Gemstone.

We are asking you to prepare the first of these two articles. It should not involve a significant amount of time and should not be very long, something on the order of several hundred words to a thousand words would be appropriate. I have attached material that can be used in cutting and pasting such an article. You will probably recognize most of the material since you prepared it originally.

JDB:ab

Attachments

CC: Don H.

Bev.

Jerry G. ✓



Jerry A

**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

May 21, 1987

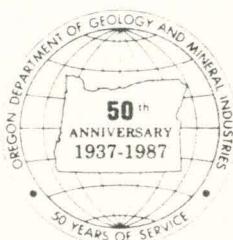
TO: Gail Achterman
FROM: Don Hull
SUBJECT: HJR 4 Oregon Sunstone

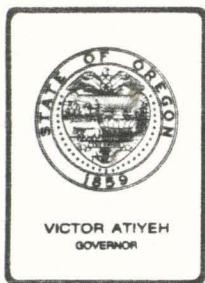
The resolution creating an official state gemstone has passed the House (56-0) and Senate (20-0).

We suggest a brief signing ceremony if the Governor's time schedule allows.

Alternatively, a ceremony in Burns might be appropriate after the session. In either case we have an invitation list of appropriate individuals.

We have also had a beautiful sunstone mounted for presentation to the Governor at the appropriate time.





Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE
1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

March 20, 1986

Gerry Thompson
Executive Assistant
to the Governor
Office of the Governor
254 State Capitol
Salem, Oregon 97310

Dear Gerry,

Attached is a packet of descriptive material that can be used in press kits at a kickoff for Oregon sunstones. How many sets will you need?

I am leaving 3 samples of the mounted sunstones. We are proceeding with the faceting of 100 stones for use by the Governor as presentation gifts. Please let us know how he would like these stones mounted. The gift boxes will include a card which describes the origin and uniqueness of these gems.

Sincerely,

Donald A. Hull
State Geologist

DAH:ab

CC: Pat Amedeo



First California Box Corp.
(Warehouse) 7031 Marcelle, Paramount, CA 90723 (213) 531-4470

PACKING SLIP

Oregon Department of Geology & Mineral Indu.
910 State Office Bldg.
Portland, OR. 97201

INVOICE NO.	43737
DATE	3-25-86
ORDERED BY	Gray Grey
YOUR P. O. NUMBER	46169
TERMS	Net 30
SHIP VIA	UPS
FOB	Paramount
SALESMAN	House
NO. OF CARTONS	1

QTY.	STYLE	COLOR	DESCRIPTION		
144	33401-444	Black	Pendant		

Summary of sunstones as of
4/18/06

Received from S. & W.	31 stones
" Weightmen's	3 stones
Total	34 stones

Delivered to French's	34 stones
" " "	35 boxes

Received from French's (mount stones & boxes)	9
---	---

Received Received from S. & W. 6/13	11 stones
	42 stones ^{ton}

Delivered to French's 6/14	11 stones
" " "	24 boxes

MEMO

DATE: January 10, 1986

TO: John B.
FROM: Don H.
SUBJECT: Sunstones

At cabinet on January 10, 1986 I described the opportunity to enhance gemstone production through the promotion of sunstones. Gerry Thompson was particularly excited about this opportunity and we should move quickly to implement the publicity.

I described our plans to incorporate sunstones in the Expo 86 in Vancouver, British Columbia later this year and promotion by the Department through media articles. I also indicated that we would like to have the Governor use presentation sets of sunstones as gifts for visiting dignitaries.

We should move to promote sunstones while interest is high in the following manner.

We should develop presentation kits by February 15, 1986. I will invite the Governor to view sunstones at the February 21 meeting of our Governing Board and we will try to have media present on this occasion. I have indicated to Gerry that the sunstone producers and facetors are willing to make available these presentation kits at no cost to the State.

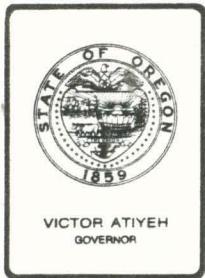
We should incorporate a proposal to the name the sunstone as "Oregon's State gem" in our legislative package for consideration at the staff, a later Governing Board meeting and the Governor's office. We should schedule a sunstone display in the Capitol Building to coincide with the opening of the 1987 regular session so that these gems will be on display with the concurrent consideration of the legislation. Mary ~~Sherman~~ ^{display} in the Capitol Building should be contacted in this regard.

Gerry indicated a desire to keep Tom Kennedy at EDD informed and it may be possible to enlist their help in the promotional campaign.

DAH:ab

CC: Jerry G. 





Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE
1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

January 10, 1986

Gerry Thompson
Office of the Governor
254 State Capitol
Salem, Oregon 97310

Dear Gerry,

We are excited about the opportunity to promote a gemstone industry in Oregon with the help of your office by publicizing sunstones which are mined in southeastern Oregon and faceted by local jewelers.

In order to begin this activity we will secure presentation sets of the sunstones for use by the Governor as gifts to visiting dignitaries. We would like to kick off this effort with an appearance by the Governor and representatives of this "cottage industry" at the forthcoming meeting of our Governing Board in Portland on Friday, February 21st. This type of event with media participation would be especially useful.

We will continue to work on a display of these gemstones at Expo 86. We will also appreciate any assistance that the Economic Development Department can provide.

Sincerely,

Donald A. Hull
State Geologist

DAH:ab

CC: Pat Amedeo
Tom Kennedy

bcc: *Jerry Gray*

Senate Joint Resolution 18

Introduced by Senator STADLER, Representative DETERING, Senators AHRENS, VERNON COOK, WARD COOK, CORBETT, ELFSTROM, HUSTON, IRELAND, MONAGHAN, POTTS, RAYMOND, THIEL, WILLNER, YTURRI, Representatives BESSONETTE, DAY, GALLAGHER, SAM JOHNSON, LANG, McKINNIS and read February 19, 1965

1 Whereas the great and sovereign State of Oregon has a state flag, a
2 state animal (the beaver), a state flower (the Oregon grape), a state bird
3 (the western meadow lark), a state seal, a state tree (Douglas fir) and a
4 state fish (the Chinook salmon); and

5 Whereas the State of Oregon, being of unbounded international im-
6 portance as a "rockhound's paradise"; and

7 Whereas the State of Oregon needs a designated state rock; and

8 Whereas a number of rock and gem clubs representing all areas of
9 Oregon and the Oregon Museum of Science and Industry have conducted
10 a popular vote to select a state rock; and

11 Whereas this vote favored the thunderegg two to one; and

12 Whereas the thunderegg is described as a "remarkable and colorful
13 agate-filled spherical mass of silicified claystone, and rhyolite found
14 throughout the State of Oregon" ranging in size up to four feet in di-
15 ameter; and

16 Whereas an old legend of the Warm Springs Indians tells us that these
17 spherical masses were once hurled from the craters of Mt. Hood and
18 Mt. Jefferson when the "spirits of the mountains" were angry and that the
19 "thunder spirits" who lived in the craters hurled the nodules to the ac-
20 companiment of much lightning and thunder and therefore the agate-filled
21 nodules became known as "thundereggs"; now, therefore,

22

23 *Be It Resolved by the Legislative Assembly of the State of Oregon:*

24

25

26

27

28 That this ancient symbol of geological significance and absorbing native
29 legend, the thunderegg, be acclaimed the Oregon state rock.

1 Standard Brilliant
Light red
9½ M. approx 3K. Value \$ 200⁰⁰

2 Delta Cut - Light Red
9½ M. approx 3K. Value \$ 200⁰⁰

3 Modified Brilliant. Horizontal Split mains
Straw color
11 M. approx 4K. Value \$ 213⁰⁰

4 Diamond Step cut - Straw color
10½ M. approx 3¾ K. Value \$ 200⁰⁰

5 Brilliant Oval Figar Red
12 M. approx 5K. Value \$ 266⁰⁰

6 Modified Brilliant #4 Vertical Split
mains. Straw color
11 M. approx 4K. Value \$ 210⁰⁰

7 Modified Swiss Cut - Red
8 M. approx 2K Value \$ 133⁰⁰

8 French cut Straw color
7 M. approx 1½ K. Value \$ 80⁰⁰

9 Marquis Box cut - Straw color
flat charge - Value \$ 400⁰⁰

10 Standard Brilliant Red & Green
Rare -
10½ M. approx 3¾ K. Value \$ 1,000⁰⁰

Jerry

Sorry this took
so long to get done.
Too many irons in
the fire down here
Bew

TOP QUALITY MULTI-COLORED
SCULPTURING GRADE SOAPSTONE

(503) 479-3646

MINED, PROCESSED AND MARKETED BY

STEATITE of SOUTHERN OREGON, INC.
(DOING BUSINESS SINCE 1967)

2891 ELK LANE • GRANTS PASS, OREGON 97527

JOHN H. PUGH
President

STEVE F. PUGH
Vice-President

JOHN H. PUGH
President

STEVE F. PUGH
Vice-President

STEATITE of SOUTHERN OREGON, INC

2891 ELK LANE • GRANTS PASS, OREGON 97526
(503) 479-3646

12-11-85

Steatite Of Southern Oregon Inc. is lending this carving of a Grizzly Bear, done in green Soapstone, to the Department of Geology & Mineral Industries, for exhibit in the World's Fair. This carving was done by Gene Drake of Cave Junction, Oregon, and is valued at \$750.00, wholesale. The carving was taken by Jerry Gray on December 11, 1985.

Beverly Pugh
Beverly Pugh

Jerry J Gray



VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE
1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

March 6, 1986

MacKenzie Freeman
Special Events Coordinator
Oregon Economic Development Department
595 Cottage Street, N.E.
Salem, OR 97310

Dear Mr. Freeman:

The Department has been deeply involved in Expo 86 for several months. We obtained all the materials being used in the mineral-mining section of the Oregon Pavilion. The most striking object in the Pavilion is a custom designed and executed gold pendant and chain with a 10 carat yellow sun stone, total value \$2,000; that we persuaded a jewelry firm to make and loan to the Expo 86.

Sincerely,

Jerry J. Gray

JJG:rm

January 9, 1986

OREGON

ECONOMIC
DEVELOPMENT
DEPARTMENT

595 Cottage Street, NE
Salem, Oregon 97310, U.S.A.
Telephone: (503) 373-1200

Telex: 821481
Cable: ORECONDEV
FAX: (503) 581-5115

Mr. Donald A. Hull
State Geologist
Dept. of Geology & Mineral
Industries
910 State Office Building
Salem, OR 97201

RECEIVED-PTLD
JAN 13 1986
DEPT. OF GEOLOGY
1986

Dear Mr. Hull:

The excitement is mounting! Never again in this century will your organization have an opportunity like the one in front of you now. Your department can be a part of the action at Expo 86.

This world exposition, to be held in Vancouver, B.C., Canada, will run from May 2 through October 13, 1986. (Some 7 million visits have already been sold!) Oregon's presence at Expo 86 signals our belief in working to strengthen Oregon's statewide quest for economic development. The Oregon Pavilion will reinforce that effort while we showcase our state's culture, heritage, tourist attractions, products, and people.

The run of Expo 86 is 165 days, during which time the Oregon Pavilion will be open 12 hours every day. We are inviting communities, counties, select organizations, State of Oregon departments, and you to participate in the Oregon welcome experience. This is an opportunity for you to become directly involved in the "action" of our state's Pavilion at Expo with exhibits, demonstrations, audio-visual presentations and/or lectures. The events and possibilities to promote your department and its activities are only limited by imagination.

As soon as you have assigned a committee or individual to mastermind your efforts, please let our Special Events Coordinator, MacKenzie Freeman, know how you would like to be involved in the Oregon Pavilion.



Victor Atiyeh
Governor



VICTOR ATIYEH
GOVERNOR

Department of General Services

1225 FERRY STREET SE, SALEM, OREGON 97310 PHONE (503) 378-4642

Copy

C E R T I F I C A T E O F S E L F - I N S U R A N C E

This is to certify that the State of Oregon is duly qualified under the laws of the State of Oregon to act as a self-insurer for its liability and property damage exposures according to the provisions of Chapter 731, 85 Laws.

Dated this 1st day of January, 1986.



Gene Snyder
Administrator
Risk Management Division

LD:de
0155i
1-13-86

PROMOTION PRODUCTS INC.

50 S.E. Yamhill Street
PORTLAND, OREGON 97214

Portland (503) 234-0901 Seattle (206) 464-0600
San Francisco (415) 864-0600

LETTER OF TRANSMITTAL

TO OREGON DEPT. OF GEOLOGY & MINERAL INDUSTRIES
910 STATE OFFICE BUILDING
PORTLAND, OREGON 97201

DATE	11/25/86	JOB NO.	5200
ATTENTION	MR. JERRY GRAY		
RE:	OREGON PAVILION AT EXPO '86		

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order _____

COPIES	DATE	NO.	DESCRIPTION	
11/25/86	1	28 LB. INGOT (PIG) FERRONICKEL		✓
11	1	ORE SAMPLE - GARNIERITE		✓
11	1	DRILL BIT USED IN DRILLING MIST GAS FIELD		✓
11	8	MOUNTED COLOR PHOTOS		✓
11	1	FERRONICKEL NUGGETS		✓
11	1	CARVING OF GRIZZLY BEAR (SOAPSTONE)		✓
11		FERRONICKEL SHOT		✓
11		SOFT SAPROLITE		✓

THESE ARE TRANSMITTED as checked below:

For approval Approved as submitted Resubmit _____ copies for approval
 For your use Approved as noted Submit _____ copies for distribution
 As requested Returned for corrections Return _____ corrected prints
 For review and comment _____
 FOR BIDS DUE _____ 19 _____ PRINTS RETURNED AFTER LOAN TO US

REMARKS THANK YOU FOR LETTING US USE THESE FOR DISPLAY IN THE OREGON PAVILION AT EXPO '86. THEY WERE VIEWED BY OVER 3 MILLION INTERNATIONAL VISITORS.

Jerry J. Gray

COPY TO _____

SIGNED: *Phyllis Auger*

PROMOTION PRODUCTS INC.

50 S.E. Yamhill Street
PORTLAND, OREGON 97214Portland (503) 234-0901 Seattle (206) 464-0600
San Francisco (415) 864-0600

LETTER OF TRANSMITTAL

TO OREGON DEPT. OF GEOLOGY & MINERAL INDUSTRIES
910 STATE OFFICE BUILDING
PORLTAND, OREGON 97201

DATE	11/25/86	JOB NO.	5200
ATTENTION	MR. JERRY GRAY		
RE:	OREGON PAVILION AT EXPO '86		

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Samples	<input type="checkbox"/> Specifications
<input type="checkbox"/> Copy of letter	<input type="checkbox"/> Change order	<input type="checkbox"/> _____		

COPIES	DATE	NO.	DESCRIPTION
1	11/25/86	1	SCARSTONE ROCK, POLISHED ON ONE SIDE W/HAND SAW
"	"	1	BASALT COBBLE W/LARGE SUNSTONE CRYSTAL
"	"	1	ROUGH SUNSTONE, BEFORE BEING FACETED
"	"	1	CLEAR ROUGH SUNSTONE PINK "SHILLER"
"	"	1	CLEAR & GREEN ROUGH SUNSTONE
"	"	1	CLEAR ROUGH SUNSTONE
"	"	1	CLEAR GREEN & PINK ROUGH SUNSTONES
"	"	1	CLEAR GLASS PLATE
"	"	1	5 PC. STAINLESS STEEL PLACE SETTING W/NAPKIN

THESE ARE TRANSMITTED as checked below:

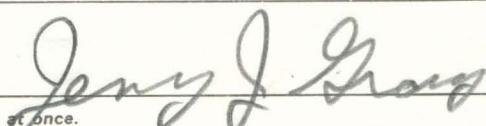
<input type="checkbox"/> For approval	<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> Resubmit _____ copies for approval
<input type="checkbox"/> For your use	<input type="checkbox"/> Approved as noted	<input type="checkbox"/> Submit _____ copies for distribution
<input type="checkbox"/> As requested	<input type="checkbox"/> Returned for corrections	<input type="checkbox"/> Return _____ corrected prints
<input type="checkbox"/> For review and comment	<input type="checkbox"/> _____	
<input type="checkbox"/> FOR BIDS DUE _____	19 _____	<input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US

REMARKS

24 cut sunstone plus a 14 K yellow
gold pendant with a 10.25 ct yellow
sunstone

COPY TO _____

SIGNED:



PROMOTION PRODUCTS INC.

50 S.E. Yamhill Street
PORTLAND, OREGON 97214Portland (503) 234-0901 Seattle (206) 464-0600
San Francisco (415) 864-0600TO DEPT. OF GEOLOGY & MINERAL INDUSTRIES
1005 STATE OFFICE BUILDING
PORTLAND, OREGON 97201LETTER OF TRANSMITTAL
1798

DATE	5/8/86	JOB NO.	5200
ATTENTION	JERRY GRAY		
RE:	OREGON PAVILION AT EXPO '86		

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Samples	<input type="checkbox"/> Specifications
<input type="checkbox"/> Copy of letter	<input type="checkbox"/> Change order	<input type="checkbox"/> _____		

COPIES	DATE	NO.	DESCRIPTION
	5/8/86	4	COLOR PRINTS MOUNTED ON MASONITE

THESE ARE TRANSMITTED as checked below:

<input type="checkbox"/> For approval	<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> Resubmit _____ copies for approval
<input type="checkbox"/> For your use	<input type="checkbox"/> Approved as noted	<input type="checkbox"/> Submit _____ copies for distribution
<input type="checkbox"/> As requested	<input type="checkbox"/> Returned for corrections	<input type="checkbox"/> Return _____ corrected prints
<input type="checkbox"/> For review and comment	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> FOR BIDS DUE _____	19 _____	<input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US

REMARKS THESE ARE PRINTS WHICH WE FOUND WERE NOT ABLE TO FIT IN
THE EXHIBIT AT THE OREGON PAVILION AT EXPO '86. WE THOUGHT YOU
COULD USE THESE.

COPY TO _____

SIGNED: *Phyllis Riger*

Benny D. Post

DOA&MI

Cloud H. Carpenter

Security

Lyle Riggs

agent, Oregon Council

Lyle Riggs 581-2273

Take down
May 19 - 1:00 p.m.

Display from the Oregon Department of Geology and Mineral Industries

GOLD

- ✓ 1. Placer gold nuggets on evaporating dish
- ✓ 2. Lode gold sample from SW Oregon
- ✓ 3. "No-see-em" gold from southern Oregon
- ✓ 4. Gold on serpentinite, SW Oregon, and magnifier
- ✓ 5. Gold on quartz, eastern Oregon, and magnifier
- ✓ 6. Gold shown in photos (2)
- ✓ 7. Sumpter dredge photo

INDUSTRIAL MINERALS

- ✓ 1. Quartz-rich sand on evaporating dish
- ✓ 2. Glass bottle
- ✓ 3. Cement on evaporating dish
- ✓ 4. Diatomite ~~on evaporating dish~~
- ✓ 5. Zeolites ~~on evaporating dish~~
- ✓ 6. Bentonite on evaporating dish
- ✓ 7. Pumice and cinders on evaporating dish
- ✓ 8. Brick clay on evaporating dish
- ✓ 9. Building brick

RARE METALS (TITANIUM)

- ✓ 1. Oxidized titanium scrap
- ✓ 2. Ti support member from airplane
- ✓ 3. Ti machine parts (5)
- ✓ 4. Ti mill stock
- ✓ 5. Ti sponge (2)
- ✓ 6. Rutile sand
- ✓ 7. Model 747 airplane on stand

SUNSTONES

- ✓ 1. Two photos
- ✓ 2. 24 faceted sunstones on velvet in embroidery hoop
- ✓ 3. Unpolished sunstones on evaporating glass
- ✓ 4. Sunstone necklace
- ✓ 5. Sunstone necklace and bracelet
- ✓ 6. Basalt with sunstones
- ✓ 7. Jewelry stand and light

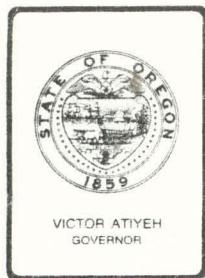
SOAPSTONE

- ✓ 1. Two photos
- ✓ 2. Sawed block of ^{SOAP} soapstone and saw
- ✓ 3. Soapstone carving of an eagle
- ✓ 4. Large block of soapstone beneath case

NATURAL GAS

- ✓ 1. Cross section
- ✓ 2. Drill bit
- ✓ 3. Sandstone core
- ✓ 4. Two photos

6 maps, 1 DOA&MI acknowledgments, & 1 overhead sign



Department of Geology and Mineral Industries

ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

September 8, 1986

Tom Kennedy, Director
Economic Development Department
595 Cottage Street N.E.
Salem, OR 97310

Dear Tom:

We would appreciate your help in securing the return of the items shown on the attached list when Expo 86 closes. These items include gemstones, a talc carving, photos, metal products, and other items from Oregon mines and metallurgical plants.

Thanks.

Sincerely,

Donald A. Hull
State Geologist

DAH:rm

enclosure

cc: Jerry Gray

1. A Grizzly Bear carving by Gene Drake, Cave Junction, on loan from Steatite of Southern Oregon, Inc., Grants Pass, value \$1,500.00.
2. A 14K yellow gold pendant containing one triangular cut Sunstone weighing 10.25 ct., on loan from and designed and manufactured by French's Jewelry and Al Price, Albany, value of the pendant without the stone is \$1,700.00.
3. The Columbia West Faceters Guild, Portland, has loaned to Expo 86 the following nine faceted Sunstones which total \$600.00.
 - a. No. 68, 142mm, 10.25 ct, triangular-trap cut, clear straw color, mounted in the above pendant value \$100.00.
 - b. No. 4, 11 mm, 5.1 ct., Octagon zircon cut, clear yellow color, value \$50.00.
 - c. No. 10, 14 mm, 8.8 ct., Pom Pom cut, clear yellow color, value \$85.00.
 - d. No. 17, 11.7 mm, 6 ct., Square Modern Cardinal cut, clear yellow color, value \$55.00.
 - e. No. 23, 18 x 12 mm, 14.2 ct., Rectangle Spiral cut, clear yellow color, value \$120.00.
 - f. No. 31, 10.5 mm, 4.25 ct., Hexagon 6 Ray Star cut, clear yellow color, value \$40.00.
 - g. No. 44, 13.2 mm, 9.75 ct., Square Old Mine cut, clear straw color, value \$90.00.
 - h. No. 42, 13.7 x 72 mm, 4.2 ct., Bullet Step cut, clear straw color, value \$40.00.
 - i. No. 65, 8.7 x 7.7 mm, 2.2 ct., Rectangle Bar cut, clear straw color, value \$20.00.
4. Louise Schwier, Portland, has loaned the following six faceted sunstones to Expo 86 with a total value of \$1,055.00:
 - a. No. 10, 12 x 8 mm, 2.85 ct., Original rectangle cut, clear yellow color with pink shiller, value \$94.00.
 - b. No. 101, 5.75 mm, .65 ct., Modern Round Brilliant Bounce cut, center red color, value \$43.00.
 - c. No. 107, 9.5 mm, 3.2 ct., 469 Triangle cut, red color with green corners, value \$240.00.
 - d. No. 108, 8.5 mm, 2.15 ct., S.B. Raeleng modern cut, red color, value \$397.00.
 - e. No. 116, 9 mm, 2.65 ct., Sunflower cut, red-orange color, value \$175.00.
 - f. No. 122, 6.5 mm, 1.6 ct., Tri-Step #819 cut, pink-orange color, value \$106.00.
5. Milo Matlock, Spray, has loaned the following six faceted sunstones to Expo 86 with a total value of \$2,232.00:
 - a. No. 1, 9.5 mm, approx. 3 ct., Standard Brilliant cut, yellow color, value \$200.00.
 - b. No. 5, 12 x 17 mm, approx. 5 ct., Brilliant Oval cut, light orange, value \$266.00.
 - c. No. 7, 8 mm, approx. 2 ct., Modified Swiss cut, pink-yellow color with shiller, value \$133.00.
 - d. No. 9, 10 x 24 mm, 12.25 ct., Marquis Box cut, straw color, value \$400.00.

5. continued

- e. No. 10, 10.5 mm, approx. 3.75 ct., yellow color with red and green, value \$1,000.00.
- f. No. 12, 10 mm, approx. 3.5 ct., Free Form cut, yellow-pink color with small amount of shiller, value \$233.00.

6. Snow Mountain Gems, Hines has loaned the following four sunstones to Expo 86 with a total value of \$444.00:

- a. No. C-26, 8.5 mm, 2 ct., Brilliant cut, green-pink color, value \$90.00.
- b. No. C-146, 5.3 mm, .58 ct., Brilliant cut, green color, value \$26.00.
- c. No. C-228, 6.7 x 11.2 mm, 1.81 ct., Emerald cut, intense red color, value \$181.00.
- d. No. C-276, 6.1 x 9.8 mm, 1.86 ct., medium red color, value \$147.00.

7. Nickel

- a. (3) 16" x 20" color prints by M.A. Hanna Company
- b. (1) ore sample - garnierite 4-6% nickel
- c. (1) jar ore - soft saprolite 1-1½% nickel
- d. (1) 28 pound ingot (pig) ferronickel containing 50% nickel, 50% iron
- e. ferronickel nuggets containing 50% nickel, 50% iron
- f. ferronickel shot produced by dripping molten metal into cold water - 50% nickel, 50% iron
- g. (2) photographs

8. Aggregate Resources

- (2) photographs

9. Natural Gas

- a. (1) drill bit used in drilling Mist gas field
- b. (1) photograph

10. Soapstone (Talc)

- a. (1) soapstone rock, polished on one side with hand saw
- b. (3) photographs

11. Sunstones

- a. (1) basalt cobble with a large sunstone crystal
- b. (1) rough sunstone, before being faceted, clear rough sunstone pink "shiller" or play of color, caused by minute amounts of native copper
- c. clear rough sunstone
- d. clear and green rough sunstone
- e. clear, green and pink rough sunstone
- f. (2) photographs
- g. (1) jeweler's neck and shoulder stand

DISPLAY FROM OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

The theme of the display is "Metals and Minerals in Oregon's Economy." There are six categories of materials in the display:

1. OREGON SUNSTONES (Oregon's new State Gem, as of August 4, 1987)
 - a. 24 sunstones that have been faceted by the Columbia-Willamette Faceters Guild. *12 stones \$2853.00*
 - b. Unpolished sunstones.
 - c. Sunstone necklace, courtesy French's Jewelers and the Columbia-Willamette Faceters Guild.
 - d. Sunstone necklace and bracelet, gift to the citizens of Oregon from the Columbia-Willamette Faceters Guild and the Oregon Retailers Association. *16 2000.00*
 - e. Basalt with sunstones.
 - f. Photographs showing Oregon sunstones as they are being mined and as they are found on the ground.
 - g. Map showing where Oregon sunstones are found.
2. GOLD
 - a. Placer gold nuggets.
 - b. Various samples of gold ore, including gold on serpentinite, on quartz, and as finely disseminated deposits of "no-see-em" gold. *4 600 #5453.00*
 - c. Photographs of the gold display at the U.S. National Bank of Oregon, Baker Branch, and of the Sumpter gold dredge.
 - d. Map showing Oregon counties where gold is found.
3. RARE METALS (TITANIUM)
 - a. Oxidized titanium scrap.
 - b. Titanium machine parts.
 - c. Titanium mill stock.
 - d. Titanium sponge.
 - e. Rutile sand, from which titanium is extracted.
 - f. Model 474 airplane, to show that, because of its light weight and strength, titanium is used in aerospace and other high-tech industries.
 - g. Map showing location of Albany, Oregon, where titanium, zirconium, hafnium, vanadium, columbium, and tantalum are produced for use in high-tech industries.

4. SOAPSTONE (TALC)
 - a. Several soapstone carvings.
 - b. Sawed block of soapstone, with saw cutting block.
 - c. Several soapstone carvings courtesy of Steatite of Southern Oregon, Inc.
 - d. Large block of soapstone that can be touched and scratched.
 - e. Photographs showing soapstone being mined.
 - f. Map showing where soapstone is mined in Oregon.
5. NATURAL GAS
 - a. Drill bit.
 - b. Core of Clark and Wilson sandstone, reservoir rock for the gas found in the Mist Gas Field.
 - c. Cross section, showing the subsurface geology of the Mist Gas Field.
 - d. Two photos of the Mist Gas Field.
 - e. Map showing the location of the Mist Gas Field, Columbia County, Oregon.
6. INDUSTRIAL MINERALS
 - a. Quartz-rich sand, from Coos County, used to make glass.
 - b. Powdered cement, from Baker County.
 - c. Diatomite, from Lake, Malheur, and Harney Counties, used as filters, fillers, and oil absorbant compounds.
 - d. Zeolites, from Malheur County, used in animal-food supplements, as soil amendments, and as pet litter.
 - e. Bentonite, from Crook and Malheur Counties, used in oil-drilling fluids and as hay binder, foundry-sand binder, pet litter, and pond and solid-waste-disposal sealant.
 - f. Pumice and cinders, from Deschutes County, used for concrete and cinder blocks, road surfacing, and decorative rock.
 - g. Brick clay, from Klamath and Multnomah Counties, used in making building and paving bricks.
 - h. Sand and gravel and crushed stone, produced in all 36 Oregon counties. During 1986, these rock resources accounted for 93 percent of the State's mineral output (28 million tons out of 30 million tons) and 70 percent of the State's total mineral value produced (\$92 million out of \$131 million).
 - i. Map showing all of Oregon, because industrial minerals are found throughout the entire state.



VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

January 7, 1985

Craig Kerger
Promotion Products Inc.
Exhibit Design & Fabrication
Main Office: 50 Southeast Yamhill St.
Portland, OR 97214

Dear Mr. Kerger:

The following items for Expo 86 will have to be insured against loss:

RECEIVED 1/10/86
PA JJG

1. A Grizzly Bear carving by Gene Drake, Cave Junction, on loan from Steatite of Southern Oregon, Inc., Grants Pass, value \$1,500.00. ✓
2. A 14K yellow gold pendant containing one triangular cut Sunstone weighing 10.25 ct., on loan from and designed and manufactured by French's Jewelry and Al Price, Albany, value of the pendant without the stone is \$1,700.00. ✓
3. The Columbia West Faceters Guild, Portland, has loaned to Expo 86 the following nine faceted Sunstones which total \$600.00:
 - a. No. 68, 142mm, 10.25ct, triangular-trap cut, clear straw color, mounted in the above pendant value \$100.00.
 - b. No. 4, 11 mm, 5.1 ct., Octagon zircon cut, clear yellow color, value \$50.00.
 - c. No. 10, 14mm, 8.8 ct., Pom Pom cut, clear yellow color, value \$85.00.
 - d. No. 17, 11.7 mm, 6 ct., Square Modern Cardinal cut, clear yellow color, value \$55.00.
 - e. No. 23, 18 x 12 mm, 14.2 ct., Rectangle Spiral cut, clear yellow color, value \$120.00.
 - f. No. 31, 10.5 mm, 4.25 ct., Hexagon 6 Ray Star cut, clear yellow color, value \$40.00.
 - g. No. 44, 13.2 mm, 9.75 ct., Square Old Mine cut, clear straw color, value \$90.00.
 - h. No. 42, 13.7 x 72 mm, 4.2 ct., Bullet Step cut, clear straw color, value \$40.00.✓

PA JJG
PA JJG

Received 1-7-86
less item noted in Column

Craig Kerger
January 7, 1986
Page 2

i. No. 65, 8.7 x 7.7 mm, 2.2 ct., Rectangle Bar cut, clear straw color, value \$20.00.

4. Louise Schwier, Portland, has loaned the following six faceted sunstones to Expo 86 with a total value of \$1,055.00:

- a. No. 10, 12 x 8 mm, 2.85 ct., Original rectangle cut, clear yellow color with pink shiller, value \$94.00.
- b. No. 101, 5.75 mm, .65 ct., Modern Round Brilliant Bounce cut, center red color, value \$43.00.
- c. No. 107, 9.5 mm, 3.2 ct., 469 Triangle cut, red color with green corners, value \$240.00.
- d. No. 108, 8.5 mm, 2.15 ct., S.B. Raeleng modern cut, red color, value \$397.00.
- e. No. 116, 9 mm, 2.65 ct., Sunflower cut, red-orange color, value \$175.00.
- f. No. 122, 6.5 mm, 1.6 ct., Tri-Step #819 cut, pink-orange color, value \$106.00.

PA JTG
5. Milo Matlock, Spray, has loaned the following six faceted sunstones to Expo 86 with a total value of \$2,232.00:

- a. No. 1, 9.5 mm, approx. 3 ct., Standard Brilliant cut, yellow color, value \$200.00.
- b. No. 5, 12 x 17 mm, approx. 5 ct., Brilliant Oval cut, light orange, value \$266.00.
- c. No. 7, 8mm, approx. 2 ct., Modified Swiss cut, pink-yellow color with shiller, value \$133.00.
- d. No. 9, 10 x 24 mm, 12.25 ct., Marquis Box cut, straw color, value \$400.00.
- e. No. 10, 10.5 mm, approx. 3.75 ct., yellow color with red and green, value \$1,000.00.
- f. No. 12, 10 mm, approx. 3.5 ct., Free Form cut, yellow-pink color with small amount of shiller, value \$233.00.

6. Snow Mountain Gems, Hines, has loaned the following four sunstones to Expo 86 with a total value of \$444.00:

- a. No. C-26, 8.5 mm, 2 ct., Brilliant cut, green-pink color, value \$90.00.
- b. No. C-146, 5.3 mm., .58 ct., Brilliant cut, green color, value \$26.00.
- c. No. C-228, 6.7 x 11.2 mm, 1.81 ct., Emerald cut, intense red color, value \$181.00.

PA JTG

Craig Kerger
January 7, 1986
Page 3

d. No. C-276, 6.1 x 9.8 mm, 1.86 ct., medium red
color, value \$147.00.

The insurance should total \$7,531.00 and should be in the
name of Oregon Department of Geology and Mineral Industries.

Thank you.

Sincerely,

Jerry J. Gray
Economic Geologist

JJG:ak
cc: John Nielsen



Snow Mountain Gems

P.O. Box 831
Hines, Oregon 97738
(503) 573-7067

December 12, 1985

Dear Mr. Gray,

We are sending you 8 Heliolite gems for you to look at. I know it is more than you wanted, but this display represents what we mine from our claim fairly well. You can pick out the ones you want to include with the Vancouver B.C. Exposition display and return the rest -- or use them all.

We are also including our business card. We would like to have you include the names of John and Evelyn Hinton of Hines, Ore. with our names, if possible. We are joint owners of the mining claim and feel it is important that their names be included. All marketing of the material goes thru Snow Mountain Gems.

I talked to my husband about the cutting fees that you inquired about. We feel that we can cut the small gems, 3 to 5 millimeter, for \$5.00 per stone. Anything over 5 millimeter would be \$10.00 per stone plus \$3.00 per carat.

I really would rather not cut any stones under 4 millimeter -- they are very hard to see, especially if you would want the standard round brilliant (57 facets). There are simpler cuts with only 33 facets that would work just as well with the tiny stones, and are much easier to see to cut.

Sincerely,

Virginia Weeghtman

Snow Mountain Gems
P.O. Box 831
Hines, Oregon 97738

INVOICE NO.

1006

Phone (503) 573-7067

CUSTOMER'S ORDER	SALESMAN	TERMS	SHIPPED TO		F.O.B.	DATE
			STREET & NO.	CITY	STATE	ZIP
C-228	On Loan to - Oregon State Dept of Geology and Mineral Industries	Jerry J. Gray	1005 State Office Building	Portland	Oregon	97201
C-276	"	Medium Red Emerald	9.8 x 6.1 mm			
C-26	"	Green/Pink Round	8.5 mm			
Y-198	"	Pink Round	5.5 mm			
Y-304	"	Pink Cut Star	6. mm			
C-146	"	Green Round	5.3 mm			
C-392	"	Pink Double Star	7. mm			
C-209	"	Pink Triangle	8.8 mm			
Total -						1634.15

INVOICE

REDFORM

7H 722

Snow Mountain Gems
P.O. Box 831
Hines, Oregon 97738

INVOICE NO.
1006

Phone (503) 573-7067

On loan to - Oregon State Dept of Geology and Mineral Industries		SHIPPED TO	
STREET & NO.		Jerry J. Gray	
1005 State Office Building	STATE	1005 State Office Bldg. 1st flr	ZIP
Portland	ZIP	Portland	Oregon
CUSTOMER'S ORDER		TERMS	DATE

CUSTOMER'S ORDER	SALESMAN	TERMS	F.O.B.	DATE
C-228	Hollolite Intense Red Oval	11.2 x 6.7 mm	1.81 ct	100% per ct \$ 181.00 Kept
C-276	" Medium Red Emerald	9.8 x 6.1 mm	1.96 ct	75% per ct \$ 147.00 Kept
C-26	" Green/Pink Round	8.5 mm	2 ct	45% per ct \$ 90.00 Kept
V-198	" Pink Round	5.5 mm	.70 ct	45% per ct \$ 31.50 Sent Back
1-304	Pink Gpit Star	6. mm	.45 ct	45% per ct \$ 42.75 Sent Back
C-146	Green Round	5.3 mm	.58 ct	45% per ct \$ 26.10 Kept
C-393	Pink Double Star	7.0 mm	1.40 ct	45% per ct \$ 63.00 Sent Back
C-209	Pink Triangle	8.8 mm	1.76 ct	30% per ct \$ 52.80 Sent Back
				Total \$ 634.15

INVOICE

7H 722
REPRINT

Kept Sent Back
\$ 181.00 31.50
147.00 42.75
90.00 63.00
26.10 52.80
\$ 634.15
\$ 634.15

Total \$ 634.15

Sent back

11 Emerald Cut - Straw Color

9M. approx 2 1/2K.

Value \$133-

12 Free Form -

Red

Kept

10M. approx 3 1/2K.

Value \$233-

Total Value \$3,268.00

Kept

sent. back

\$	200	200
	266	213
	133	200
	400	210
		80
		133
\$	<u>1000</u>	<u>1036</u>
	<u>2232.00</u>	

Total \$3268.00

Kept
 1 Standard Brilliant
 Light red

9½ M. approx 3K. Value \$200⁰⁰
 2 Delta Cut - Light Red

Sent back

9½ M. approx 3K. Value \$200⁰⁰

3 Modified Brilliant. Horizontal Split main
 Straw color

11 M. approx 4K. Value \$213⁰⁰

4 Diamond Step cut - Straw color

Sent Back

Sent back

Kept

10½ M. approx 3¾ K. Value \$200⁰⁰

5 Brilliant Oval Light Red

12 M. approx 5K. Value \$266⁰⁰

6 Modified Brilliant #4 Vertical Split
 mains. Straw color

11 M. approx 4K. Value \$210⁰⁰

7 Modified Swiss Cut - Red

Kept

8 M. approx 2K. Value \$133⁰⁰

8 French cut Straw color

Sent back

7 M. approx 1½ K. Value \$80⁰⁰

9 Marquis Box Cut - Straw color

Kept

flat charge - Value \$400⁰⁰

10 Standard Brilliant Red & Green
 Rare -

Kept

10½ M. approx 3¾ K. Value \$1,000⁰⁰

AGGREGATE RESOURCES

Oregon, a sand and gravel and stone producing state. These commodities, which account for 60 to 70 percent of Oregon's mineral production, form the basis for all construction in Oregon.

PHOTOGRAPH 1

Typical sand and gravel pit operation.

(PPI needs to get a print from the slide.)

PHOTOGRAPH 2

Typical stone quarry operation.

(PPI needs to get a print from a slide.)

PHOTOGRAPH 3

A prestressed concrete bridge beam one of the final products from the mining of sand and gravel and stone. To turn the corner with a extra long beam, a second drive steers the rear wheels from a low-slung cab that travels under the rear of the beam.

(PPI will need to get a print from the slide.)

SUNSTONES

Basalt cobble with a large Sunstone crystal

Rough Sunstone, before being faceted

Clear rough Sunstone

Clear and green rough Sunstone

Clear, green, and pink rough Sunstone

Clear rough Sunstone pink "shiller," or play of color, caused by minute amounts of native copper

Faceted Sunstones loaned by Columbia West Faceters Guild, Portland; Milo Matlock Spray; Louise Schwier, Portland; and Snow Mountain Gems, Hines.

Gold pendant with a $10\frac{1}{4}$ ct. Sunstone designed and manufactured by Al Price of French's Jewelry, Albany.

PHOTOGRAPH 1

Southeastern Oregon Sunstone deposit.

PHOTOGRAPH 2

Ground view of a surface exposure of a Sunstone deposit.

PHOTOGRAPH 3

A Sunstone mine.

NICKEL

PHOTOGRAPH 1

Open-pit mining by M.A. Hanna Company on Nickel Mountain near Riddle, Oregon. The ore being mined is soft saprolite containing 1-1½% nickel.

PHOTOGRAPH 2

The smelting of nickel ore by M.A. Hanna Company causes spectacular pyrotechnics when the molten ore is mixed with ferrosilicon in the huge ladles shown on the left and when the refined ferronickel (50% nickel and 50% iron) is tapped for casting into 28-pound ingots (pigs) from the electric refining furnace shown on the right.

PHOTOGRAPH 3

The red-hot 28-pound ferronickel (50% nickel and 50% iron) ingots (pigs) are dumped from their molds into a rotary tumbler that has water sprays to cool the pigs and baffles to break off the sharp edges. The pigs are dropped on the floor, allowed to cool, and then stacked onto pallets for shipment to the steel industry.

Ore (**green**)
Garnierite 4-6% nickel

Ore (**red**)
Soft saprolite 1-1½% nickel

Ferronickel 28-pound ingot (pig) containing
50% nickel and 50% iron.

Ferronickel nuggets containing 50% nickel and
50% iron.

Ferronickel shot produced by dripping molten metal
into cold water. The shot contains 50% nickel and
50% iron.

To finish the nickel display PPI must get a stainless
steel table place setting of tableware.

SOAPSTONE

Soapstone, a rock containing the platy mineral talc, which is softer than a finger nail. Steatite of Southern Oregon, Inc., mines a soapstone deposit located south of Grants Pass, Oregon, to produce blocks of soapstone for sculpturing.

The carving of the grizzly bear by Gene Drake of Cave Junction, Oregon, is an example of the detail that can be obtained from soapstone.

PHOTOGRAPH 1

A moss-covered outcrop of soapstone shown with a miner for scale.

(PPI must get a print made from the slide.)

PHOTOGRAPH 2

Steatite of Southern Oregon, Inc., mining a large boulder of soapstone by cutting it with a chain saw.

(PPI must get a print made from the slide. When the print is made the blue should be balanced out.)

PHOTOGRAPH 3

The gang-table saw used to resaw chain-sawed boulders into blocks of soapstone that can be used for sculpturing.

(PPI must get a print from negative #30A.)

ALFRED J. DAVIS COMPANY
P. O. BOX 1776
PORTLAND, OREGON
(503) 226-3801

OREGON DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES
ADMINISTRATION OFFICES
1005 STATE OFFICE BUILDING
PORTLAND, OREGON 97201

We enclose the following Insurance Papers to comply with your requirements. We trust that they are satisfactory and ask that you advise if anything further is needed.

ALFRED J. DAVIS CO. BY: LISALLE PLANIE

Our Insured: PROMOTION PRODUCTS INC. DATE 1/14/86 Y
Property: CONTENTS AT VARIOUS LOCATIONS

Company and Policy No: CONTINENTAL CBP905693

ENCLOSED: Original Policy Memo Copy of Policy Cert of Ins.
 Binder Other: 438 BFU

CERTIFICATE OF INSURANCE

CERTIFICATE ISSUED TO: DEPT OF GEOLOGY & MINERAL IND.
 1005 STATE OFFICE BUILDING
 PORTLAND, OREGON 97201

NAME & ADDRESS OF INSURED:
 PROMOTION PRODUCTS, INC.
 50 S.E. YAMHILL
 PORTLAND, OREGON 97213

PERILS INSURED AGAINST: FIRE & LIGHTNING SPRINKLER LKGE \$250. DEDUCTIBLE,
 EXTENDED COVERAGE OTHER-SPECIFY: APPLYING TO:
 VANDALISM & "ALL RISK" ALL PERILS
 MALICIOUS MISCHIEF

LOCATION OF PROPERTY COVERED:

1. PROPERTY OF OTHERS FOR EXPO 86
- 2.
- 3.
- 4.

POLICY NUMBER	INSURER	TERM FROM TO	COVERAGE LOCATIONS	AMOUNT OF INSURANCE
CBP905693	CONTINENTAL	6/1/85- 4/1/86	B-ES-A	\$25,000

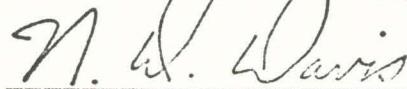
LEGEND:

SP -SPECIFIC INSURANCE	B -BUILDING	1 -LOCATION #1
BL -BLANKET INSURANCE	BE-BLDG(S)& EQUIP	2 -LOCATION #2
R -REPORTING FORM-Amt. of ins. shown is limit for all con- tributing insurance	E -EQUIPMENT ES-EQUIP & STOCK S -STOCK	3 -LOCATION #3 4 -LOCATITON #4 A -ALL LOCATIONS

MORTGAGEE CLAUSE (REQUIRES 10 DAY WRITTEN NOTICE OF CANC)
 LENDERS LOSS PAYABLE ENDORSEMENT (POLICY CONTINUES IN FORCE
 10 DAYS AFTER WRITTEN NOTICE OF CANC. IS REC'D BY LENDER)
 OTHER PAYEE CLAUSE (COPY ATTACHED TO THIS CERTIFICATE)

Policies contain clause indicated above. Loss, if any, payable to
 the party to whom this cert. is issued, unless otherwise noted:

I CERTIFY THAT THE ABOVE DESCRIBED POLICIES EXIST AND COVER
 ONLY IN ACCORDANCE WITH THE POLICY TERMS.


 (signature)

AGENT
 (title)

1/15/86 Y
 (date)

ALERED J. DAVIS COMPANY P.O. BOX 1776 PORTLAND OR 97207
 (firm and address)

THIS CERTIFICATE IS FOR INFORMATION ONLY; IT IS NOT A CONTRACT OF
 INSURANCE BUT ATTESTS THAT A POLICY AS NUMBERED HEREIN, AND AS IT
 STANDS AT THE DATE OF THIS CERTIFICATE HAS BEEN ISSUED BY THE INSURER.

FORM ↑

LENDER'S LOSS PAYABLE ENDORSEMENT

1. Loss or damage, if any, under this policy shall be paid to _____
_____DEPARTMENT OF GEOLOGY & MINERAL INDUSTRIES

1005 STATE OFFICE BUILDING, PORTLAND, OREGON 97201

its successors and assigns, hereinafter referred to as "the Lender," in whatever form or capacity its interest may appear and whether said interest be vested in said Lender in its individual or in its disclosed or undisclosed fiduciary or representative capacity, or otherwise, or vested in a nominee or trustee of said Lender.

2. The insurance under this policy, or any rider or endorsement attached thereto, as to the interest only of the Lender, its successors and assigns, shall not be invalidated nor suspended: (a) by any error, omission, or change respecting the ownership, description, possession, or location of the subject of the insurance or the interest therein, or the title thereto; (b) by the commencement of foreclosure proceedings or the giving of notice of sale of any of the property covered by this policy by virtue of any mortgage or trust deed; (c) by any breach of warranty, act, omission, neglect, or non-compliance with any of the provisions of this policy, including any and all riders now or hereafter attached thereto, by the named insured, the borrower, mortgagor, trustor, vendee, owner, tenant, warehouseman, custodian, occupant, or by the agents of either or any of them or by the happening of any event permitted by them or either of them, or their agents, or which they failed to prevent, whether occurring before or after the attachment of this endorsement, or whether before or after a loss, which under the provisions of this policy of insurance or of any rider or endorsement attached thereto would invalidate or suspend the insurance as to the named insured, excluding herefrom, however, any acts or omissions of the lender while exercising active control and management of the property.

3. In the event of failure of the insured to pay any premium or additional premium which shall be or become due under the terms of this policy or on account of any change in occupancy or increase in hazard not permitted by this policy, this Company agrees to give written notice to the Lender of such non-payment of premium after sixty (60) days from and within one hundred and twenty (120) days after due date of such premium and it is a condition of the continuance of the rights of the Lender hereunder that the Lender when so notified in writing by this Company of the failure of the insured to pay such premium shall pay or cause to be paid the premium due within ten (10) days following receipt of the Company's demand in writing therefor. If the Lender shall decline to pay said premium or additional premium, the rights of the Lender under this Lender's Loss Payable Endorsement shall not be terminated before ten (10) days after receipt of said written notice by the Lender.

4. Whenever this Company shall pay to the Lender any sum for loss or damage under this policy and shall claim that as to the insured no liability therefor exists, this Company, at its option, may pay to the Lender the whole principal

Interest and other indebtedness due or to become due from the insured, secured or unsecured, (with refund of all interest not accrued), and Company, to the extent of such payment, shall thereupon receive a full assignment and transfer, without recourse, of the debt and all rights and securities held as collateral thereto.

5. If there be any other insurance upon the within described property, this Company shall be liable under this policy as to the Lender for the proportion of such loss or damage that the sum hereby insured bears to the entire ins. of similar character on said property under policies held by, payable to any expressly consented to by the Lender. Any Contribution Clause included in any Fallen Building Clause Waiver or any Extended Coverage Endorsement attached to this contract of insurance is hereby nullified, and also any Contribution Clause in any other endorsement or rider attached to this contract of insurance is hereby nullified except Contribution Clauses for the compliance with which the insured has received reduction in the rate charged or has received extension of the coverage to include hazards other than fire and compliance with such Contribution Clause is made a part of the consideration for insuring such other hazards. The Lender upon the payment to it of the full amount of its claim will subrogate this Company (pro rata with all other insurers contributing to said payment) to all of the Lender's rights of contribution under said other insurance.

6. This Company reserves the right to cancel this policy at any time, as provided by its terms, but in such case this policy shall continue in force for the benefit of the Lender for ten (10) days after written notice of such cancellation is received by the Lender and shall then cease.

7. This policy shall remain in full force and effect as to the interest of the Lender for a period of ten (10) days after its expiration unless an acceptable policy in renewal thereof with loss thereunder payable to the Lender in accordance with the terms of this Lenders's Loss Payable Endorsement, shall have been issued by some insurance company and accepted by the Lender.

8. Should legal title to and beneficial ownership of any of the property covered under this policy become vested in the Lender or its agents, ins. under this policy shall continue for the term thereof for the benefit of the Lender but, in such event, any privileges granted by this Lenders's Loss Payable Endt. which are not also granted the insured under the terms and conditions of this policy and/or under other riders or endorsements attached thereto shall not apply to the insurance hereunder as respects such property.

9. All notices herein provided to be given by the Company to the Lender in connection with this policy and this Lender's Loss Payable Endorsement shall be mailed to or delivered to the Lender at its office or branch at _____ or, if none be specified, at its head office at _____
Attached to Policy No. CBP905693 of CONINENIAL
Issued to PROMOTION PRODUCTS, INC.
Agency at PORTLAND, OREGON

Date 11/14/84

ALFRED J. DAVIS CO. Agent




STATE OF OREGON

INTEROFFICE MEMO

TO: Linda Dickerson
Risk Management
Dept. of General Services
Salem, OR 97301

FROM: John Nielsen

SUBJECT: Insurance on loan for exhibit at EXPO 86

DATE: January 24, 1986

Here is a list of the items that will be displayed at EXPO 86.

These displays will be locked in display cases.

Time period January 1, 1986 to November 30, 1986

JON:rm

attachment

cc: Jerry Gray ✓



THE
**OREGON
PAVILION
EXPO 86**

May 2 - Oct. 13, 1986

P.O. Box 8788
Station A
Vancouver, B.C.
Canada V6C 2X5
Telephone: (604) 668-8410
Oregon Expo office
Telephone: (503) 378-6334

**OREGON EXPO 86
COMMITTEE**

Honorary Co-Chairmen:
Governor Victor Atiyeh
Mayor Bud Clark

Chairman:
Robert C. Ingalls
Gwyneth Gamble-Booth
Ronald K. Allen
Gregory Cushman
Fred Delkin
Harold S. Hirsch
John D. Kirby
Austin F. Leach Jr.
Kenneth Moore
Samuel T. Naito
Dale C. Sause
Arlene D. Schnitzer
Loran L. "Stub" Stewart
Charles Swindells

Robert L. Stevens
Commissioner
Manager, Oregon Expo 86



Economic Development
Department
595 Cottage NE, Salem,
Oregon 97310, U.S.A.

Thomas F. Kennedy
Director

Telephone: (503) 373-1200
Telex: 821481
Cable: ORECONDEV
FAX: (503) 581-5115

December, 1986

Dear Friends,

Ironically, this final act
of the Oregon Expo 86
project is possibly the
most important of all—
thanking you and the
hundreds of other Oregon-
ians who gave their time,
energy and talents to our
pavilion at Expo 86.

Our warmest thanks to
each of you! Without
your spirit of cooperation,
the pavilion would have
been just another building.

Commissioner Bob Stevens,
The Oregon Expo 86 Staff
& Committee

STATE OF OREGON



AWARDED

*In recognition of an outstanding contribution to
the success of the Oregon Pavilion at the
1986 World Exposition, May 2 - October 13,
Vancouver, British Columbia, Canada.*

EXPO
86™

ISSUED NOVEMBER 1986
SALEM, OREGON, U.S.A.

Joe Skellie
GOVERNOR
OREGON EXPO '86
COMMITTEE CHAIRMAN
Robert C. Longwell
Robert C. Longwell
Robert C. Longwell
Robert C. Longwell

THE OREGON PAVILION

PROMOTION PRODUCTS INC.

50 S.E. Yamhill Street
PORTLAND, OREGON 97214Portland (503) 234-0901 Seattle (206) 464-0600
San Francisco (415) 864-0600

LETTER OF TRANSMITTAL

1792

DATE	2/25/86	JOB NO.	5200
ATTENTION	JERRY GRAY		
RE:	OREGON PAVILION / EXPO '86		

TO JERRY GRAY, ECONOMIC GEOLOGIST
DEPT. OF GEOLOGY & MINERAL INDUSTRIES
1005 STATE OFFICE BLDG.
PORTLAND, OREGON 97201

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:

<input type="checkbox"/> Shop drawings	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Samples	<input type="checkbox"/> Specifications
<input type="checkbox"/> Copy of letter	<input type="checkbox"/> Change order	<input type="checkbox"/> _____		

COPIES	DATE	NO.	DESCRIPTION
	2/25/86	11	35 mm COLOR SLIDES
	2/25/86	2	35 mm COLOR NEGATIVE STRIPS

THESE ARE TRANSMITTED as checked below:

<input type="checkbox"/> For approval	<input type="checkbox"/> Approved as submitted	<input type="checkbox"/> Resubmit _____ copies for approval
<input type="checkbox"/> For your use	<input type="checkbox"/> Approved as noted	<input type="checkbox"/> Submit _____ copies for distribution
<input checked="" type="checkbox"/> As requested	<input type="checkbox"/> Returned for corrections	<input type="checkbox"/> Return _____ corrected prints
<input type="checkbox"/> For review and comment	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> FOR BIDS DUE _____	19 _____	<input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US

REMARKS THANK YOU VERY MUCH FOR THE USE OF THESE FOR THE OREGON PAVILION AT EXPO '86 IN VANCOUVER, B.C. THIS SUMMER. WE WILL GIVE YOU A CALL WHEN WE SET UP THE WHOLE DISPLAY BEFORE SHIPPING IT UP TO CANADA.

COPY TO _____

SIGNED: Phyllis Auger



VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

December 24, 1985

Mr. & Mrs. Milo Medlock
Box 205
Spray, Oregon 97874

Dear Mr. and Mrs. Medlock:

The attached list shows which sunstones we selected for Expo-86 and which ones were sent back. The six that were kept had a total value of \$2,232 and the six which were sent back to you had a total value of \$1,036.

Enclosed is the sunstone article that I told you about.

Thank you.

Sincerely,

Jerry J. Gray
Economic Geologist

JJG:ab

Enclosures

PPI PROMOTION PRODUCTS INC.

EXHIBIT DESIGN & FABRICATION

January 18, 1986

Mr. Gary Gray
Economic Geologist
Department of Geology and Mineral Industries
Administrative Office
1005 State Office Building
Portland, Oregon 97201

Dear Mr. Gray:

Enclosed please find a copy of insurance provided for items loaned for exhibits in the Oregon Pavilion at Expo '86. I have yet to receive the signed lending agreement from the Oregon Economic Development Department.

Thanks again for all your efforts in "making" the geological resources exhibit.

Sincerely,

Phyllis Shugr

Insurance

Snow Mountain Gems	4 ^{sun} stones	\$ 444.10
Milo Matlock	6 ^{sun} stones	\$ 2232.00
Columbia W. Faceters Guild	9 ^{sun} stones	\$ 600.00
Louise Schwier	6 ^{sun} stones	\$ 1055.00
Total	25 sunstones	\$ 4331.10
State of Southern Oregon, Inc.	11 talc carving of a grizzly bear carving of	\$ 1500.00 150.00
French's Jewelers	1 gold pendant and chain for mounting one of the Columbia W. Faceters Guild sunstones.	\$ 1700.00
		6412.20
		750.00
		7162.20
		\$ 7531.00

1] Standard Brilliant
Light red

9½ M. approx 3K.

Value

\$ 200⁰⁰

2] Mella Cut - Light Red

9½ M. approx 3K.

Value

\$ 200⁰⁰

3] Modified Brilliant. Horizontal Split main
Straw color

11 M. approx 4K.

Value

\$ 213⁰⁰

4] Diamond Step cut - Straw color

10½ M. approx 3¾ K.

Value

\$ 200⁰⁰

5] Brilliant Oval Light Red.

12 M. approx 5K.

Value

\$ 266⁰⁰

6] Modified Brilliant ^{1/4} Vertical split
mains. Straw color

11 M. approx 4K.

Value

\$ 210⁰⁰

7] Modified Swiss Cut - Red

8 M. approx 2K

Value

\$ 133⁰⁰

8] French cut Straw color

7 M. approx 1½ K.

Value

\$ 80⁰⁰

9] Marquis Box Cut - Straw color

flat charge -

Value

\$ 400⁰⁰

10] Standard Brilliant Red & Green
Rare -

10½ M. approx 3¾ K.

Value

\$ 1,000⁰⁰

11] Emerald Cut - Straw Color

9 M. approx 2 1/2 K.

Value \$133.00

12] Free Form - Red

10 M. approx 3 1/2 K.

Value \$233.00

Total Value \$3,268.00

JOHN H. PUGH
President

STEVE F. PUGH
Vice-President

STEATITE of SOUTHERN OREGON, INC

2891 ELK LANE • GRANTS PASS, OREGON 97526
(503) 479-3646

12-11-85

Steatite Of Southern Oregon Inc. is lending this carving of a Grizzly Bear, done in green soapstone, to the Department of Geology & Mineral Industries, for exhibit in the World's Fair. This carving was done by Gene Drake of Cave Junction, Oregon, and is valued at \$750.00 wholesale. The carving was taken by Jerry Gray on December 11, 1985.

Beverly Pugh
Dorey Pugh

Jerry J Gray



October 28, 1986

Jerry Gray
Oregon Dept. of Geology
and Mineral Industries
910 State Office Bldg.
1400 S.W. 5th Ave.
Portland, OR 97201-5528

Dear Jerry,

Sorry these pictures are so slow in arriving. The Fall rush has subsided so it has been catchup all week!

Governor Atiyeh has been mailed a more complete set of pictures. I am not sure if timing has affected their use.

Your press kit has been forwarded to Jewelers of America and the Goldsmith Magazine in San Francisco.

Thank you for your participation in our convention.

Sincerely,

A handwritten signature in black ink that appears to read "Sharron".

Sharron C. Nelson
Executive Director

1. A Grizzly Bear carving by Gene Drake, Cave Junction, on loan from Steatite of Southern Oregon, Inc., Grants Pass, value \$1,500.00.
2. A 14K yellow gold pendant containing one triangular cut Sunstone weighing 10.25 ct., on loan from and designed and manufactured by French's Jewelry and Al Price, Albany, value of the pendant without the stone is \$1,700.00.
3. The Columbia West Faceters Guild, Portland, has loaned to Expo 86 the following nine faceted Sunstones which total \$600.00.
 - a. No. 68, 142mm, 10.25 ct, triangular-trap cut, clear straw color, mounted in the above pendant value \$100.00.
 - b. No. 4, 11 mm, 5.1 ct., Octagon zircon cut, clear yellow color, value \$50.00.
 - c. No. 10, 14 mm, 8.8 ct., Pom Pom cut, clear yellow color, value \$85.00.
 - d. No. 17, 11.7 mm, 6 ct., Square Modern Cardinal cut, clear yellow color, value \$55.00.
 - e. No. 23, 18 x 12 mm, 14.2 ct., Rectangle Spiral cut, clear yellow color, value \$120.00.
 - f. No. 31, 10.5 mm, 4.25 ct., Hexagon 6 Ray Star cut, clear yellow color, value \$40.00.
 - g. No. 44, 13.2 mm, 9.75 ct., Square Old Mine cut; clear straw color, value \$90.00.
 - h. No. 42, 13.7 x 72 mm, 4.2 ct., Bullet Step cut, clear straw color, value \$40.00.
 - i. No. 65, 8.7 x 7.7 mm, 2.2 ct., Rectangle Bar cut, clear straw color, value \$20.00.
4. Louise Schwier, Portland, has loaned the following six faceted sunstones to Expo 86 with a total value of \$1,055.00:
 - a. No. 10, 12 x 8 mm, 2.85 ct., Original rectangle cut, clear yellow color with pink shiller, value \$94.00.
 - b. No. 101, 5.75 mm, .65¹⁹ ct., Modern Round Brilliant Bounce cut, center red color, value \$43.00.
 - c. No. 107, 9.5 mm, 3.2 ct., 469 Triangle cut, red color with green corners, value \$240.00.
 - d. No. 108, 8.5 mm, 2.15 ct., S.B. Raeleng modern cut, red color, value \$397.00.
 - e. No. 116, 9 mm, 2.65 ct., Sunflower cut, red-orange color, value \$175.00.
 - f. No. 122, 6.5 mm, 1.6 ct., Tri-Step #819 cut, pink-orange color, value \$106.00.
5. Milo Matlock, Spray, has loaned the following six faceted sunstones to Expo 86 with a total value of \$2,232.00:
 - a. No. 1, 9.5 mm, approx. 3 ct., Standard Brilliant cut, yellow color, value \$200.00.
 - b. No. 5, 12 x 17 mm, approx. 5 ct., Brilliant Oval cut, light orange, value \$266.00.
 - c. No. 7, 8 mm, approx. 2 ct., Modified Swiss cut, pink-yellow color with shiller, value \$133.00.
 - d. No. 9, 10 x 24 mm, 12.25 ct., Marquis Box cut, straw color, value \$400.00.

5. continued

3.55

- e. No. 10, 10.5 mm, approx. 3.75 ct., yellow color with red and green, value \$1,000.00.
- f. No. 12, 10 mm, approx. 3.5 ct., Free Form cut, yellow-pink color with small amount of shiller, value \$233.00.

6. Snow Mountain Gems, Hines has loaned the following four sunstones to Expo 86 with a total value of \$444.00:

- a. No. C-26, 8.5 mm, 2 ct., Brilliant cut, green-pink color, value \$90.00.
- b. No. C-146, 5.3 mm, 2.58 ct., Brilliant cut, green color, value \$26.00.
- c. No. C-228, 6.7 x 11.2 mm, 1.81 ct., Emerald cut, intense red color, value \$181.00.
- d. No. C-276, 6.1 x 9.8 mm, 1.86 ct., medium red color, value \$147.00.

7. Nickel

- a. (3) 16" x 20" color prints by M.A. Hanna Company
- b. (1) ore sample - garnierite 4-6% nickel
- c. (1) jar ore - soft saprolite 1-1½% nickel
- d. (1) 28 pound ingot (pig) ferronickel containing 50% nickel, 50% iron
- e. ferronickel nuggets containing 50% nickel, 50% iron
- f. ferronickel shot produced by dripping molten metal into cold water - 50% nickel, 50% iron
- g. (2) photographs

8. Aggregate Resources

- (2) photographs

9. Natural Gas

- a. (1) drill bit used in drilling Mist gas field
- b. (1) photograph

10. Soapstone (Talc)

- a. (1) soapstone rock, polished on one side with hand saw
- b. (3) photographs

11. Sunstones

- a. (1) basalt cobble with a large sunstone crystal
- b. (1) rough sunstone, before being faceted, clear rough sunstone pink "shiller" or play of color, caused by minute amounts of native copper
- c. clear rough sunstone
- d. clear and green rough sunstone
- e. clear, green and pink rough sunstone
- f. (2) photographs
- g. (1) jeweler's neck and shoulder stand

SNOW MOUNTAIN GEMS
Box 831
HINES, ORE 97738

INVOICE NO.

1014

SOLD TO			SHIPPED TO		
DEPT OF GEOLOGY & MINERAL INDUSTRIES			STREET & NO.		
CITY	STATE	ZIP	CITY	STATE	ZIP

INVOICE

CUSTOMER'S ORDER	SALESMAN	TERMS	F.O.B.	DATE
C-588	CLEAR HELIOLITE	BARION Cao Mine	1.35 CT	13.50
V-1088	CLEAR HELIOLITE	" " "	1.32 CT	13.20
C-585	" "	" "	1.32 CT	13.20
				13.20
				TOTAL 39.90
DONATED FOR GOVERNOR TO GIVE AWAY				
<i>Jerry J. Gray</i>				

REDFORM
7H 722

Snow MOUNTAIN GEMS
Box 831
HINES, ORE 97738

INVOICE NO.

1022

573-7067

SOLD TO			SHIPPED TO		
DEPT. OF GEOLOGY & MINERAL INDUSTRY			F.M. FRENCH & SON PITTS - 310 STEVENS 140 W 1 ST		
CITY	STATE	ZIP	CITY	STATE	ZIP
Portland	Ore		Albany	Ore	

INVOICE

CUSTOMER'S ORDER	SALESMAN	TERMS	F.O.B.	DATE
C-596	CLEAR JASPER (BARION Cao Mine)	1.39 CT	10 CT	13.90
V-1122	CLEAR JASPER	" " "	1.25 CT	12.50
				13.90
				TOTAL 26.40
DONATED FOR GOVERNOR TO GIVE AWAY				

REDFORM
7H 722

Snow MOUNTAIN GEMS
Box 831
HINES, ORE 97738

INVOICE NO.

1031

573-7067

SOLD TO DEPT. OF GEOLOGY & MINERAL INDUSTRY		SHIPPED TO F.M. FRENCH & SON ATM. S. STEVENS		
STREET & NO.		STREET & NO. 140 W 1ST		
CITY PORTLAND	STATE ORE	CITY ALBANY	STATE ORE ZIP 97321	
CUSTOMER'S ORDER	SALESMAN	TERMS	F.O.B.	DATE 7-1-86
V-1138	CLEAR SUNSTONE (BARION ODMINE)			1.23 ct \$10.97 12 30
V-1143	CLEAR SUNSTONE			" " 1.29 ct 12 90
V-1150	CLEAR SUNSTONE			" " 1.23 ct 12 30
V-1149	CLEAR SUNSTONE			" " 1.16 ct 11 60
V-1144	CLEAR SUNSTONE			" " 1.22 ct 12 20
				TOTAL \$ 61.30
DONATED FOR GOVERNOR TO GIVE AWAY				

REDFORM
7H 722

Snow MOUNTAIN GEMS
Box 831
HINES, ORE 97738

INVOICE NO.

1032

573-7067

SOLD TO F.M. FRENCH & SON ATM. S. STEVENS		SHIPPED TO SAME	
STREET & NO. 140 W 1ST Box 98		STREET & NO.	
CITY ALBANY	STATE ORE	CITY	STATE ZIP 97321

CUSTOMER'S ORDER	SALESMAN	TERMS	F.O.B.	DATE 7-1-86
V-1151	5MM SUNSTONE	PINK	.44 ct	20.97 19.80
V-1152	5MM SUNSTONE	PINK	.45 ct	" 20.25
V-1153	5MM SUNSTONE	RED	.46 ct	" 20.70
C-612	5MM SUNSTONE	RED	.47 ct	" 21.15
C-614	5MM SUNSTONE	RED	.45 ct	" 20.25
C-615	5MM SUNSTONE	RED	.48 ct	" 21.60
				TOTAL \$ 123.10
SELECTION TO CHOOSE GEMS FOR BRACELET TO BE DONATED TO STATE OF OREGON				

REDFORM
7H 722

USED ALL OF THESE IN BRACELET
PRESENTED TO GOVERNOR 7-12-86



Snow Mountain Gems

P.O. Box 831
Hines, Oregon 97738
(503) 573-7067

August 22, 1986

Dear Mr. Gray,

I am enclosing the copies of the invoices for the gems donated to the State for the State gem promotion.

I had a thought on the publicity. I wondered if an article could be submitted to the Lapidary Journal -- June Culp Zeitner, Special Assistant Editor. She wrote the articles on the various State gems, and has written several updates on the subject. Just a thought.

Sincerely,

Virginia Weightman



VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

January 7, 1985

Craig Kerger
Promotion Products Inc.
Exhibit Design & Fabrication
Main Office: 50 Southeast Yamhill St.
Portland, OR 97214

Dear Mr. Kerger:

The following items for Expo 86 will have to be insured against loss:

1. A Grizzly Bear carving by Gene Drake, Cave Junction, on loan from Steatite of Southern Oregon, Inc., Grants Pass, value \$1,500.00.
2. A 14K yellow gold pendant containing one triangular cut Sunstone weighing 10.25 ct., on loan from and designed and manufactured by French's Jewelry and Al Price, Albany, value of the pendant without the stone is \$1,700.00.
3. The Columbia West Faceters Guild, Portland, has loaned to Expo 86 the following nine faceted Sunstones which total \$600.00:
 - a. No. 68, 142mm, 10.25ct, triangular-trap cut, clear straw color, mounted in the above pendant value \$100.00.
 - b. No. 4, 11 mm, 5.1 ct., Octagon zircon cut, clear yellow color, value \$50.00.
 - c. No. 10, 14mm, 8.8 ct., Pom Pom cut, clear yellow color, value \$85.00.
 - d. No. 17, 11.7 mm, 6 ct., Square Modern Cardinal cut, clear yellow color, value \$55.00.
 - e. No. 23, 18 x 12 mm, 14.2 ct., Rectangle Spiral cut, clear yellow color, value \$120.00.
 - f. No. 31, 10.5 mm, 4.25 ct., Hexagon 6 Ray Star cut, clear yellow color, value \$40.00.
 - g. No. 44, 13.2 mm, 9.75 ct., Square Old Mine cut, clear straw color, value \$90.00.
 - h. No. 42, 13.7 x 72 mm, 4.2 ct., Bullet Step cut, clear straw color, value \$40.00.

Craig Kerger
January 7, 1986
Page 2

i. No. 65, 8.7 x 7.7 mm, 2.2 ct., Rectangle Bar cut, clear straw color, value \$20.00.

4. Louise Schwier, Portland, has loaned the following six faceted sunstones to Expo 86 with a total value of \$1,055.00:

- a. No. 10, 12 x 8 mm, 2.85 ct., Original rectangle cut, clear yellow color with pink shiller, value \$94.00.
- b. No. 101, 5.75 mm, .65 ct., Modern Round Brilliant Bounce cut, center red color, value \$43.00.
- c. No. 107, 9.5 mm, 3.2 ct., 469 Triangle cut, red color with green corners, value \$240.00.
- d. No. 108, 8.5 mm, 2.15 ct., S.B. Raeleng modern cut, red color, value \$397.00.
- e. No. 116, 9 mm, 2.65 ct., Sunflower cut, red-orange color, value \$175.00.
- f. No. 122, 6.5 mm, 1.6 ct., Tri-Step #819 cut, pink-orange color, value \$106.00.

5. Milo Matlock, Spray, has loaned the following six faceted sunstones to Expo 86 with a total value of \$2,232.00:

- a. No. 1, 9.5 mm, approx. 3 ct., Standard Brilliant cut, yellow color, value \$200.00.
- b. No. 5, 12 x 17 mm, approx. 5 ct., Brilliant Oval cut, light orange, value \$266.00.
- c. No. 7, 8mm, approx. 2 ct., Modified Swiss cut, pink-yellow color with shiller, value \$133.00.
- d. No. 9, 10 x 24 mm, 12.25 ct., Marquis Box cut, straw color, value \$400.00.
- e. No. 10, 10.5 mm, approx. 3.75 ct., yellow color with red and green, value \$1,000.00.
- f. No. 12, 10 mm, approx. 3.5 ct., Free Form cut, yellow-pink color with small amount of shiller, value \$233.00.

6. Snow Mountain Gems, Hines, has loaned the following four sunstones to Expo 86 with a total value of \$444.00:

- a. No. C-26, 8.5 mm, 2 ct., Brilliant cut, green-pink color, value \$90.00.
- b. No. C-146, 5.3 mm., .58 ct., Brilliant cut, green color, value \$26.00.
- c. No. C-228, 6.7 x 11.2 mm, 1.81 ct., Emerald cut, intense red color, value \$181.00.

Craig Kerger
January 7, 1986
Page 3

d. No. C-276, 6.1 x 9.8 mm, 1.86 ct., medium red
color, value \$147.00.

The insurance should total \$7,531.00 and should be in the
name of Oregon Department of Geology and Mineral Industries.

Thank you.

Sincerely,

Jerry J. Gray
Economic Geologist

JJG:ak
cc: John Nielsen



VICTOR ATIYEH
GOVERNOR

Gray
Department of General Services

1225 FERRY STREET SE, SALEM, OREGON 97310

January 28, 1986

Mr. John Nielsen
Department of Geology
& Mineral Industries
910 State Office Building
1400 S.W. 5th Avenue
Portland, Oregon 97201

Re: Property Insurance for Exhibit EXPO 86

Dear Mr. Nielsen:

This letter is notification that as requested property insurance coverage is in effect in the amount of \$7,531.00 for items on loan to the Department of Geology & Mineral Industries and exhibited at EXPO 86. This coverage will be in effect until January 1, 1986 through November 30, 1986. The perils covered, and applicable deductible are outlined in the Risk Management Policy Manual, Section 125-7-101.

Enclosed is a certificate of self-insurance which should be kept in your files as proof of coverage.

If you have further questions concerning this coverage please feel free to call.

Sincerely,

Linda Dickenson

Linda Dickenson
Administrative Assistant
Risk Management Division
Phone: 378-4706

LD:skd
0343i

Enclosure



VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

May 23, 1986

Gerry Thompson
Executive Assistant
to the Governor
Office of the Governor
254 State Capitol
Salem, OR 97310

Dear Gerry:

We have reviewed opportunities for Governor Atiyeh to "unveil" the Oregon sunstone to the media and public in order to publicize this economic opportunity. The best 1986 event is the annual Pacific Northwest Jewelers Convention to be held in Portland on July 11-13. A luncheon and dinner are scheduled on Saturday, July 12; either occasion would be available.

Enclosed is the preliminary program. A contact is Sid Stevens, President of the Oregon State Jewelers Association. He can be reached c/o French's Jewelers, 140 1st Avenue W., Albany, Oregon 97321 (telephone 926-8855).

Please let us know your plans.

Sincerely,

Donald A. Hull
State Geologist

DAH:ak

cc: Jerry Gray

Enclosure

Oregon State Jewelers Association



MEMBER
JEWELERS
OF AMERICA, INC.

State Association Affiliate of JEWELERS OF AMERICA, INC.

PHONE (503) 223-8772

919 S.W. TAYLOR ST. #203
PORTLAND, OREGON 97205

MAY 9, 1986

NEWS BULLETIN!

PREVIEW OF THE PACIFIC N.W. JEWELERS CONVENTION, JULY 11-13, 1986

Dear fellow jeweler:

Make sure to come to our next Pacific Northwest Jewelers Convention to be held in Portland, Oregon on July 11-13 at the RED LION INN/Columbia River (formerly known as the Jantzen Beach Thunderbird).

We guarantee you the finest fun-filled and educational program that you have ever attended. Judge for yourself!

FRIDAY, JULY 11th

8:00 A.M. Jewelers Golf Tournament sponsored by the Evergreen Ducks at the Broadmoor Golf Course.

12:00 Noon Open for Registration (Main Lobby)

9:00 P.M. Welcome Reception ...sponsored by Longines-Wittnauer and Hans Wehl & Jerry Ward in Room 414 (The Kennedy Suite).

SATURDAY, JULY 12

8:30 A.M. Breakfast...sponsored by Diamond Promotion Services. (In the Willamette Room).

9:30 A.M. "A Diamond Day" by Diamond Promotion Services, Ron Dean. (In the Willamette Room).

10:30 A.M. Coffee Break...sponsored by Jo Gem/Sheena

→ 10:45 A.M. "Gem Identification" by Mary Hanns of G.I.A. Noon Lunch (In The Willamette Room).

6:30 P.M. Cocktail Hour sponsored by the Evergreen Ducks.

→ 7:30 P.M. President's Ball..Dinner, Entertainment and Grand Prizes (Riverview Ballroom).

SUNDAY, JULY 13

8:00 A.M. Breakfast...sponsored by Simon Golub & Sons and Seiko Watch (Riverview Ballroom)

9:00 A.M. "The Mollusk and Pearls" by Mary Hanns of G.I.A. (Klamath Room)

9:45 A.M. Coffee Break sponsored by Mayer Bros.

10:00 A.M. "Pearls" (continued) by Mary Hanns of G.I.A.

10:45 A.M. "Retail Theft-The Preventible Crime" by Jewelers Mutual... and "The Current Situation on Insurance for Jewelers" by Heidi Affolter of Fred S. James.

Noon: Lunch...special Guest Speaker, DR. LENDON H. SMITH, "Health Throughout The Decades of Life". (In the Riverview Ballroom).

1:30 P.M. Adjourn

YOU CAN NOT AFFORD TO MISS THIS!! MORE DETAILS AND
REGISTRATION FORMS WILL FOLLOW SOON!!

PAST PRESIDENTS-LIFE DIRECTORS
ELMER ANDERSON
RENE BLOCH
HARRY BRAMBIER
FRANK BREALL
BERNARD CROHN
DON E DAVIS
AW MOLIN
ROBERT MOLIN
BETTY NICHOLSON
JOHN NIELSEN
STANLEY ROGOWAY
GEORGE SKEIE
LEONARD SMALLBECK
ALLAN STEVENS
ALLAN STEVENS, JR
MARTIN ZELL



NEIL GOLDSCHMIDT
GOVERNOR

**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

December 16, 1987

Allen Stevens
French's Jewelers
140 West 1st
Albany, Oregon 97321

Dear Mr. Stevens:

The Department would like to thank you for the loan of the beautiful Sunstone necklace for EXPO 86 and for a tour of four Oregon cities. During EXPO 86 3 million visitors to the Oregon Pavillion viewed the necklace.

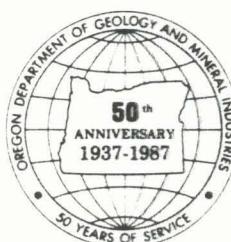
During 1987 the necklace was also on display in Baker (library), Grants Pass (library), Portland (OMSI), and Salem (Capitol Building). The Department has had very favorable feedback from people who have seen the necklace.

Thank you again.

Sincerely,

Donald A. Hull
State Geologist

DAH:ab



CERTIFIED GEMOLOGIST — AMERICAN GEM SOCIETY



140 WEST FIRST AVENUE

ALBANY, OREGON 97321

PHONE 926-8855

Name	Ferry Gray							Date	12/17/87	
Address										
City								State		
SOLD BY	CASH	CHECK	CHARGE	LAYAWAY	ON ACCT	MOSE RETD	WRITTEN BY			
STOCK NO.	QUAN.	ITEM			AMOUNT					
Received Sunstone necklace from 1986										
SPECIAL INSTRUCTIONS										
Terms \$	Per	Paying in full by								
I	22072	Purchased by X								

OREGON

ECONOMIC
DEVELOPMENT
DEPARTMENT

595 Cottage Street, NE
Salem, Oregon 97310, U.S.A.
Telephone: (503) 373-1200

Telex: 821481
Cable: ORECONDEV
FAX: (503) 581-5115

The undersigned Lender will deliver to State of Oregon, acting by and through its Economic Development Department (the Department), for display in the Oregon Pavilion at Expo 86 Exposition, Vancouver, British Columbia, during the summer of 1986, the following items:

<u>Description</u>	<u>Condition</u>	<u>Agreed Value</u>
--------------------	------------------	---------------------

SEE list attached

Lender agrees that the Department may display the items described above in the Department's pavilion in Expo 86 Exposition, Vancouver, British Columbia, during 1986. When the Expo 86 Exposition closes in 1986 or at such earlier date, as determined by the Department, the Department shall return the items in the same condition as received, reasonable wear and tear excepted, to Lender at Lender's address set forth below. Receipt of above-described items is hereby acknowledged.

Phyllis Auger
Promotion Products, Inc.

Lender:

Jerry J. Gray
Name
Oregon Dept of Geology +
Mineral Industries
910 State Office Building
Address
Portland, OR 97201

229-5580
Telephone

Date 1/10/86

STATE OF OREGON, acting by and through its ECONOMIC DEVELOPMENT DEPARTMENT

By *Mary F. Delaney*
Gary F. Delaney, Manager
Administrative Services Division



Victor Atiyeh
Governor

Items on loan from: Department of Geology and Mineral Industries
1005 State Office Building, Portland, Oregon 97201
Contact: Jerry Gray 229-5580

Nickel

- 3 16" x 20" color prints by M.A. Hanna Company
- 1 ore sample - garnierite 4-6% nickel
- 1 jar ore - soft saprolite 1-1½% nickel
- 1 28 pound ingot (pig) ferronickel containing 50% nickel, 50% iron
- ferronickel nuggets containing 50% nickel, 50% iron
- ferronickel shot produced by dripping molten metal into cold water - 50% nickel, 50% iron

Aggregate Resources

- 3 35mm color slides

Natural Gas

- 1 drill bit used in drilling mist gas field
- 2 35mm color slides

Soapstone (Talc)

- 1 soapstone rock, polished on one side with hand saw
- 1 carving of grizzly bear by Gene Drake (see list attached)
- 2 35mm slides (color)
- 1 35mm color negative (30A)

Sunstones

- 1 basalt cobble with a large sunstone crystal
- 1 rough sunstone, before being faceted
- clear rough sunstone pink "shiller" or play of color, caused by minute amounts of native copper
- faceted sunstones loaned by Columbia West Faceters Guild, Portland; Milo Matlock Spray; Louise Schwier, Portland; and Snow Mountain Gems, Hines (see list attached)
- gold pendant with 10½ ct. sunstone designed and manufactured by Al Price of French's Jewelry, Albany
- 3 35mm color slides
- clear rough sunstone
- clear and green rough sunstone
- clear, green and pink rough sunstone



VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

January 7, 1985

Craig Kerger
Promotion Products Inc.
Exhibit Design & Fabrication
Main Office: 50 Southeast Yamhill St.
Portland, OR 97214

Dear Mr. Kerger:

The following items for Expo 86 will have to be insured against loss:

1. A Grizzly Bear carving by Gene Drake, Cave Junction, on loan from Steatite of Southern Oregon, Inc., Grants Pass, value \$1,500.00.
2. A 14K yellow gold pendant containing one triangular cut Sunstone weighing 10.25 ct., on loan from and designed and manufactured by French's Jewelry and Al Price, Albany, value of the pendant without the stone is \$1,700.00.
SSG
3. The Columbia West Faceters Guild, Portland, has loaned to Expo 86 the following nine faceted Sunstones which total \$600.00:
 - a. No. 68, 142mm, 10.25ct, triangular-trap cut, clear straw color, mounted in the above pendant value \$100.00.
 - JTG* b. No. 4, 11 mm, 5.1 ct., Octagon zircon cut, clear yellow color, value \$50.00.
 - c. No. 10, 14mm, 8.8 ct., Pom Pom cut, clear yellow color, value \$85.00.
 - d. No. 17, 11.7 mm, 6 ct., Square Modern Cardinal cut, clear yellow color, value \$55.00.
 - e. No. 23, 18 x 12 mm, 14.2 ct., Rectangle Spiral cut, clear yellow color, value \$120.00.
 - f. No. 31, 10.5 mm, 4.25 ct., Hexagon 6 Ray Star cut, clear yellow color, value \$40.00.
 - g. No. 44, 13.2 mm, 9.75 ct., Square Old Mine cut, clear straw color, value \$90.00.
 - h. No. 42, 13.7 x 72 mm, 4.2 ct., Bullet Step cut, clear straw color, value \$40.00.

Craig Kerger
January 7, 1986
Page 2

i. No. 65, 8.7 x 7.7 mm, 2.2 ct., Rectangle Bar cut, clear straw color, value \$20.00.

4. Louise Schwier, Portland, has loaned the following six faceted sunstones to Expo 86 with a total value of \$1,055.00:

a. No. 10, 12 x 8 mm, 2.85 ct., Original rectangle cut, clear yellow color with pink shiller, value \$94.00.

b. No. 101, 5.75 mm, .65 ct., Modern Round Brilliant Bounce cut, center red color, value \$43.00.

c. No. 107, 9.5 mm, 3.2 ct., 469 Triangle cut, red color with green corners, value \$240.00.

d. No. 108, 8.5 mm, 2.15 ct., S.B. Raeleng modern cut, red color, value \$397.00.

JJC e. No. 116, 9 mm, 2.65 ct., Sunflower cut, red-orange color, value \$175.00.

f. No. 122, 6.5 mm, 1.6 ct., Tri-Step #819 cut, pink-orange color, value \$106.00.

5. Milo Matlock, Spray, has loaned the following six faceted sunstones to Expo 86 with a total value of \$2,232.00:

a. No. 1, 9.5 mm, approx. 3 ct., Standard Brilliant cut, yellow color, value \$200.00.

b. No. 5, 12 x 17 mm, approx. 5 ct., Brilliant Oval cut, light orange, value \$266.00.

c. No. 7, 8mm, approx. 2 ct., Modified Swiss cut, pink-yellow color with shiller, value \$133.00.

d. No. 9, 10 x 24 mm, 12.25 ct., Marquis Box cut, straw color, value \$400.00.

e. No. 10, 10.5 mm, approx. 3.75 ct., yellow color with red and green, value \$1,000.00.

f. No. 12, 10 mm, approx. 3.5 ct., Free Form cut, yellow-pink color with small amount of shiller, value \$233.00.

6. Snow Mountain Gems, Hines, has loaned the following four sunstones to Expo 86 with a total value of \$444.00:

a. No. C-26, 8.5 mm, 2 ct., Brilliant cut, green-pink color, value \$90.00.

b. No. C-146, 5.3 mm., .58 ct., Brilliant cut, green color, value \$26.00.

c. No. C-228, 6.7 x 11.2 mm, 1.81 ct., Emerald cut, intense red color, value \$181.00.

JJC ~~THESE ARE COLOR TESTS~~ color, value \$26.00.

JJC c. No. C-228, 6.7 x 11.2 mm, 1.81 ct., Emerald cut, intense red color, value \$181.00.

Craig Kerger
January 7, 1986
Page 3

d. No. C-276, 6.1 x 9.8 mm, 1.86 ct., medium red
color, value \$147.00.

The insurance should total \$7,531.00 and should be in the
name of Oregon Department of Geology and Mineral Industries.

Thank you.

Sincerely,

Jerry J. Gray
Jerry J. Gray
Economic Geologist

JJG:ak
cc: John Nielsen



NEIL GOLDSCHMIDT
GOVERNOR

**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

October 9, 1987

Susan Spencer
Keystone Jewelers Circular
10717 Wilshire
Los Angeles, CA 90024

Dear Ms. Spencer:

The material on gold and sunstones is enclosed. Perhaps a better picture of sunstones, for your magazine, could be obtained from:

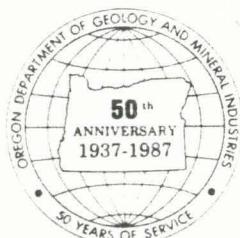
Sid Stevens Jewelers
208 West First
Albany, OR 97321

Phone: (503) 967-8140

Sincerely,

Jerry J. Gray
Economic Geologist

JJG:rm



F. M. FRENCH & SON

ALBANY'S JEWELERS SINCE 1879

140 WEST FIRST AVENUE

ALBANY, OREGON 97321

PHONE 926-8855

January 4, 1986

One 14k yellow gold pendant containing one triangular cut Sunstone weighing 10.25ct.
The pendant without the stone is valued at \$1700.00

Designed & manufactured by
French's Jewelry & Al Price
Albany, Oregon

Sid L. Stevens V.P.

Sid L. Stevens

Loaned to the Oregon department of geology & mineral Industry for Expo. 1986.

Received by Jerry Gray

Jerry J Gray 1/4/86

Memo:

To: John N

From: TSG

Subject: Insurance need to cover sunstone jewelry.

The following jewelry has been ~~borrowed~~ from Sid Stevens Jewelers borrowed through 9/16/87:

Type	Sunstone	ct	Price
Ring	# Y-1097	.75	\$ 249.00
Ring	# V-1217	.47	173.00
Ring	# V-1238	.18 (1.05 ct Dia.)	325.00
Ring (Man)	# V-445	1.42	506.00
Ear Rings	# V-219	.25 est	86.00
	# V-286	.25 est	
Ring	# V-828	.53	236.00
Ring	C-50412	.48 (2-.02 ct Dia.)	298.00
Necklace	# C-63	1.32	224.00
Necklace chain	(QFG 418 -18")		90.00
			<hr/>
		Total	\$ 2187.00



SID & SUSAN STEVENS
DIAMONDS - JEWELRY - GLASSWARE - GIFTS
208 W. 1ST
ALBANY, OR 97321
(503) 967-8140

Jerry J Gray
9/11/87

Don

April 22, 1988

Jerry G.

Replacement of sunstone bracelet jewelry that was stolen.

The Columbia-Willamette Faceters Guild was contacted about if the bracelet should be reproduced or a different type of jewerly designed to show off the sunstone. The Guild thought the bracelet was the way to go. Therefore, Sid Stevens Jewelers will be contacted to reproduce the bracelet with the attempt to buy sunstones from those persons that donated the sunstones for the first bracelet.

/dg



NEIL GOLDSCHMIDT
GOVERNOR

**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

TO: Jill Thorne

378-4587 July 30, 1987

FROM: Don Hull

SUBJECT: Lakeview visit - August 4th

On August 4th the Governor plans to highlight the newly designated official state gemstone, the sunstone, by reading a proclamation.

The following individuals might appropriately receive an invitation to attend the ceremony -

Sid Stevens, President
Oregon Retail Jewelers Association
c/o Sid Stevens Jewelers
208 W. First
Albany, OR 97321
(503) 967-8140
(Sid prepared the sunstone necklace that will be presented to the Governor)

Charles & Virginia Weightman
Snow Mountain Gems
P.O. Box 831
Hines, OR 97738
(503) 573-7067
(they mined and faceted the sunstone in the necklace)

Ronald P. Geitgey
Industrial Minerals Specialist
Oregon Dept. of Geology & Mineral Industries
910 State office Building
Portland, OR 97201
(503) 229-5580

Ron Stockhoff, President
Oregon Council of Rock & Mineral Clubs
(mailing address in Klamath Falls unknown - see Carol Splettstaszer)
(503) 884-7151
(he prepared the proclamation)

cc: Carol Splettstaszer



2-2-2-2

TUESDAY, August 4, 1987

Travel to Klamath Falls	7:45 a.m.
Kingsley Airfield Briefing Klamath Falls	9:00 a.m.
Lakeview Community Center Regional Strategy Lakeview	9:30 a.m.
Quartz Mountain Lake County	12:00 p.m.
Oregon Institute of Technology Meeting / Community concerns Klamath Falls	1:15 p.m.
OIT Foundation Dinner W.C. Ranch Klamath Falls	6:00 p.m.

WEDNESDAY, August 5, 1987

Travel to Salt Caves Dam site area	8:00 a.m.
Press Conference Klamath Falls Airport	10:30 a.m.
Salt Caves proponents Commission Hearing Room Courthouse Annex, Klamath Falls	1:00 p.m.
Salt Lake opponents Commission Hearing Room Courthouse Annex, Klamath Falls	2:45 p.m.
Tour Kingsley Field Klamath Falls	4:30 p.m.
Travel to Portland	5:30 p.m.

THURSDAY, August 6, 1987

Meet with Delegates (from White House Conference on Small Business) Portland Governor's office (more)	10:00 a.m.
--	------------



VICTOR ATIYEH
GOVERNOR

**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

January 6, 1987

Allen Stevens
French's Jewelers
140 W. First
Albany, OR 97321

Dear Allen:

As of our telephone conversation, thank you for the loan of the gold necklace that was on display at Expo 86. The necklace will be shown in the Capitol Building in Salem for three months starting January 20th. Attached is a copy of the original letter loaning the necklace to the Department for Expo 86.

Thank you again.

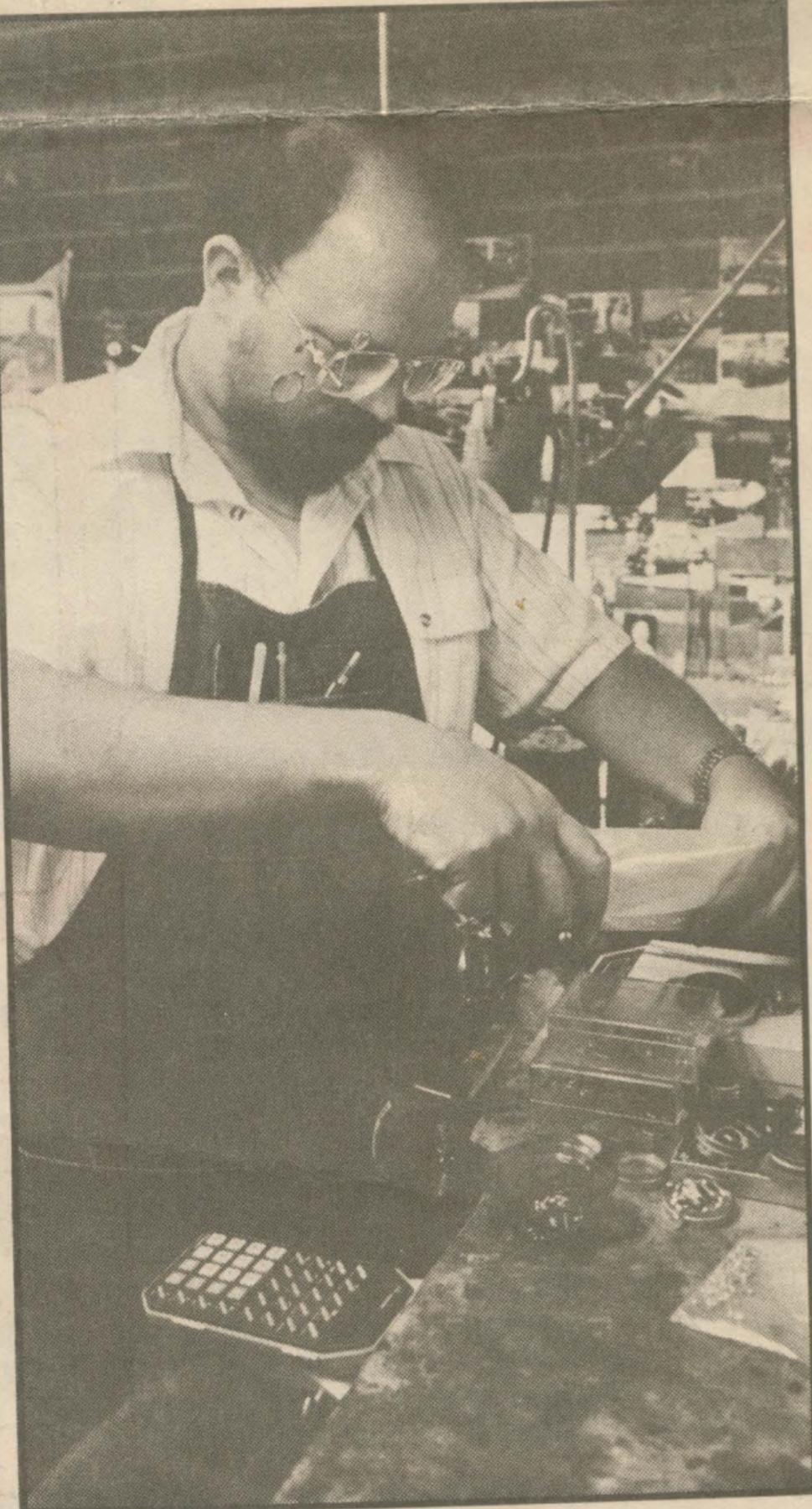
Sincerely,

Jerry J. Gray

JJG:rm
attachment



Sid Stevens, right, heats a crucible with a natural gas torch before melting a gold-alloy mixture for a ring. At left is co



Goldsmith Stevens weighs gold and alloy before mixing them for a piece of jewelry.

By MARY PARKINSON

Albany Democrat-Herald

Peter Carl Faberge, the legendary goldsmith to the Russian czars, is Sid Stevens' inspiration.

He has read numerous books on the famous designer whose masterpieces, he says, give him an ideal to work toward.

A fifth-generation jeweler himself, Stevens has ample opportunity to test his creative abilities. About 80 percent of the business at his downtown Albany shop comes from custom design work, he says.

And, according to his peers, he apparently is doing a good job.

This summer, Stevens and colleague Al Price both were first place winners in the 1989 design contest sponsored by the Pacific Northwest Jewelers Association. The association includes members from Oregon, Washington and Alaska.

Stevens' entry was a pendant with a 12.2-carat opal surround-

ed by 10 small diamonds in a gold setting and hanging from a gold chain.

Price's entry was a free-form brooch featuring a 15.2-carat cabuchon sunstone set in a swirl of gold.

Price, competing in a category requiring designers to use materials native to Oregon, Washington or Alaska, used a peach-colored sunstone mined near Hines. In 1987 the Oregon Legislature named the sunstone the state gemstone.

The category in which Stevens competed had no requirements on origin of materials, although the opal he used also was mined in Oregon, at Opal Butte near Heppner. Stevens was first place winner in the 1988 design contest with a bangle bracelet — with free-form design of gold webbing surrounding a bar of diamonds.

Stevens describes himself as "basically self-taught" with knowledge gained from study, practice, and specific training from other goldsmiths in skills such as ring sizing and stone setting.

Price, who says he was inspired to pursue a creative career by Bill Gillham, an art teacher at West Albany High School, began working with Stevens as a senior in high school. He eventually apprenticed with him for two years.

The two have now worked together for 11 years.

Designing jewelry is gratifying in at least two ways, Stevens said. "Not only do we get paid for our creations, but we also are paid by seeing the satisfaction of our customers."

Just how the two goldsmith-designers come up with ideas varies from piece to piece.

"We have ideas running around inside our heads all the time," Price said. When a customer comes in, "we work . . . to develop ideas they will be comfortable with."

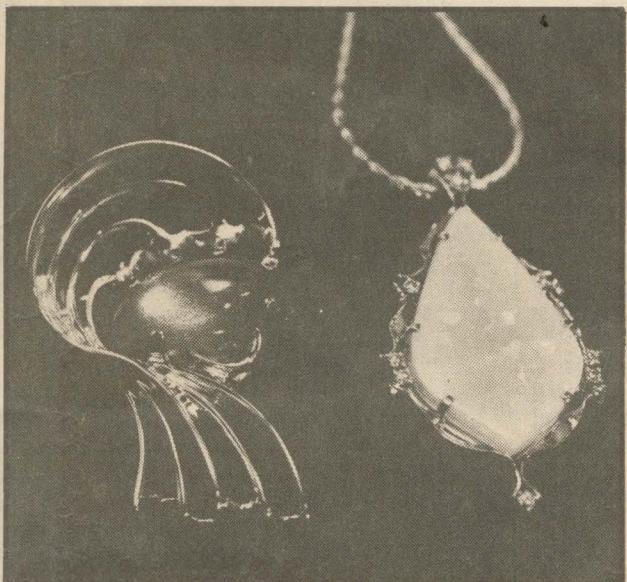
He added, "Some people know exactly what they want from the beginning."

And Stevens said: "Some people just come in and say, 'I have so much money to spend, you do a design.'"

Price credits his 5-year-old son, Tyler, for the concept that later turned into the award-winning brooch.

"It started when we were watching a TV program about the exploration of space," he said. Efforts to explain concepts such as trajectories and orbits to his son lead Price to sketches, and, eventually, the brooch design.

Both pieces will be for sale, with a pricetag of \$2,800 on Price's brooch and one for \$7,500 on Stevens' pendant. The pieces also will be featured Jan. 20-April 30, 1990, in an international exhibit on gold at the Oregon Museum of Science and Industry in Portland.



Al Price's free-form brooch, left, holds a peach-colored sunstone. Sid Stevens' pendant, right, features a 12.2-carat opal.

SCHWABE, WILLIAMSON, WYATT, MOORE & ROBERTS

ATTORNEYS AT LAW

SUITES 1600-1800, PACWEST CENTER
1211 S. W. FIFTH AVENUE
PORTLAND, OREGON 97204-1082
TELEPHONE (503) 222-0981 A

DONALD A. HAAGENSEN

CABLE ADDRESS "ROBCAL"
TELEX-151563
TELECOPIER-(503) 796-2900

September 10, 1984

Mr. Jerry Gray
Oregon Department of Geology
& Mineral Industries
1005 State Office Building
Portland, Oregon 97201

Dear Jerry:

Larry Gray from Boise called me yesterday regarding questions he had about a dispute he had over mining claims. He said that you had referred him to me. Thank you for giving my name to Larry.

Larry said that he was very impressed with your knowledge about mining properties. Although I would have liked very much to represent Larry Gray, I could not because of the arrangements he wanted to make for paying for any legal work I did. He indicated he was going to use a lawyer in Portland whose name he had received elsewhere. I told him that I would be happy to consult with him or his lawyer at any time in the future if he had questions about mining law.

Very truly yours,

Don

DAH/rl

Hintons suggest a new industry

5618

By Martha Swisher
Burns Times-Herald

Could Harney County become a major gem cutting center, supplying the Western United States with jewelry produced and marketed locally?

John and Evy Hinton of Hines think the idea has definite potential and went before the Harney County Economic Development Committee last month to issue a proposal.

Despite the lack of a quorum at the meeting, members in attendance received the idea with interest and plan to look into the matter further.

According to the Hinton's proposal, Harney County has the potential of becoming a major gem cutting center with businesses operated from private homes.

One reason the plan could work, says John, is because there is no centralized location in the west for the cutting of colored gem stones, leaving the market open as a second industry for Harney County.

Not only does the couple have their foot in the gem marketing door, they have an ace in their pockets that has begun to draw world attention in the gem world.

The Hintons have discovered gem crystals in Harney County that were previously thought to be found in only a handful of locations worldwide.

"Evy's dad found the stones about 30 years ago, but none of us ever knew what they were, explained John.

"About a year and a half ago we picked some up and took them to Rabbit Hills Mine near Plush. The find was not only a surprise, it was a shock to the gem world."

The Hintons had revealed a rich supply of heliolite, or sun stones. The only other place in the United States the gem crystals have been found that are large enough to work with is near Plus in Lake County.

Heliolite, also called moon stone or bitonite, is a member of the feldspar gem family which makes up 80 percent of the earth's crust.

The rarest forms of heliolite are the red and red-green colored stones, says John. Lake and Harney counties are the only places the unique colored stones are found.

The Hintons took their first sun stones to Quincy Howe, a gem cutter in Boise, Idaho. It was Howe that stressed the importance of their find and the need for more jewelry cutters in the western United States.

"Other places where the crystals can be found large enough to do anything with are Mexico, Canada, India and Madagascar," said John."

After confirming their find, the



Evy spends a lot of her spare time working with stones

So far, H & W Mining Co. has sold about 20 pounds of heliolite in rough form and about 12 pieces of jewelry to people locally, in the Willamette Valley and other states.

"We're starting to ship rough stones all over the United States," said Evy. "We've sent them to Virginia, Pennsylvania, California and Arizona."

The Hintons also are in business as the Desert Gull Co. through which Evy cuts and facets, and together they market other colored gems.

"One of the most unique stones we're working with is helonite, a stone recently born from the Mount

"Eventually we hope to have salesmen in every town in the United States selling our product — something like Avon," concluded John.

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After confirming their find, the Hintons went into partnership with Chuck and Virginia Weightman, also of Hines, to form the H & W Mining Company.

The four filed two 80-acre association mining claims on United States Forest Service land and, in their spare time, began collecting the rough stones.

"Right now, it's just a parttime business. We go out on weekends in the summer and Evy and the Weightmans cut and facet the stones," added John.

John is production manager for Edward Hines Lumber Co. and Chuck supervises the planing mill.



Evy spends a lot of her spare time working with stones

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"One of the most unique stones we're working with is helonite, a stone recently born from the Mount St. Helens volcano ash," said Evy.

And there is profit to be made from the home business. The value of a stone can increase nearly four times after it's been cut, according to John.

"We charge \$15 plus \$3 per karat to cut a stone in our home. If you have a thousand stones to cut, that's money in your pocket."

"Eventually we hope to have salesmen in every town in the United States selling our product — something like Avon," concluded John.

PURCHASE ORDER

STATE OF OREGON

SHOW THIS NUMBER ON
ALL PAPERS AND PACKAGES
PERTAINING TO THIS ORDER

65734

PAGE 1 OF 1

SHIP TO **Geology & Mineral Industries**
910 State Office Building Portland, OR 97201

BILL TO **SAME**

P.O. DATE

5/23/88

NO. INVOICES

2

ACCOUNT NUMBER 949.610	BIENNIA 87-89	BID NUMBER 63200	COMMODITY CODE
CLASS. FUND, PROJECT OR APPROPRIATION 43-100	REQ. NO.	AGENCY NO.	PURCHASE REQUEST NO.

FOR AGENCY USE

VENDOR **Sid Stevens Jewelers**
203 West First
Albany, OR 97331

F. O. B. destination		DELIVERY REQUIRED	TERMS net			
ITEM NO.	DESCRIPTION		QUANTITY	UNIT	UNIT PRICE	TOTAL PRICE
1	Manufacture 14 carat gold bracelet composed of 156 one-carat, brilliant-cut sunstones from all three known deposits in Lake and Harney counties. Colors include water clear, pale yellow, pink, and red. SEE ATTACHED		1	ea	2,000.00	\$2,000.00

ORDERED BY:

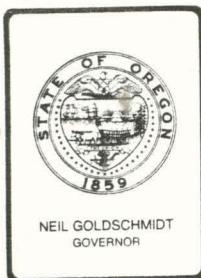
Jerry Gray

PHONE EXT.

IN ADDITION TO THE CONDITIONS STATED HEREON, THIS ORDER IS SUBJECT TO CONDITIONS STATED IN THE INVITATION TO BID AND THE OREGON REVISED STATUTES.

APPROVED

AUTHORIZED AGENT **5/23/88**



**Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE**

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

May 25, 1988

Sid Stevens
Sid Stevens Jewelers
208 West First
Albany OR 97331

Dear Sid:

As you know the bracelet that you and your employee Al Price designed and created was stolen. We have received insurance monies to replace the bracelet. We understand you still have the mold for the links.

This letter is authorization to reproduce the bracelet. The cost must be \$2,000.00 or less and if at all possible the sunstones should be bought from the same persons that donated the gems for the first bracelet. For those gems that came from the Columbia Willamette Faceters Guild, (Sid Ward, 8760 Southwest Birch Street, Portland, OR 97223, phone (503) 246-8684), would be the contact.

Sincerely,

Jerry Gray
Economic Geologist

JG/dg
GRAY1/STE42288
f52588/1634



OREGON MUSEUM OF SCIENCE AND INDUSTRY

February 18, 1988

Oregon Dept. of Geology & Mineral Industries
Attn: Jerry Gray
910 State Office Building
1400 S. W. 5th Avenue
Portland, OR 97201

Dear Mr. Gray:

OMSI has received a settlement for the theft which occurred on November 3, 1987.

According to the letter of November 23, 1987 from the Department of Geology, your loss of a sunstone bracelet-\$2000 and Placer Gold-\$1000 were among the items stolen.

A check in the amount of \$3000 is enclosed to cover the loss.

Please accept our sincere apology for this loss and inconvenience. We realize that monetary return cannot make up for the personal value placed on such treasured items.

Again, we thank you for your participation in this display at OMSI.

Sincerely,

Marilynne Eichinger
Executive Director

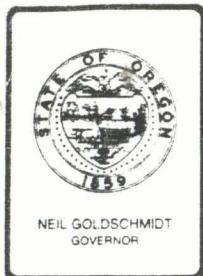
cc - Barbara Curtis

274-4524

OREGON MUSEUM OF SCIENCE AND INDUSTRY — 4015 SW CANYON RD., PORTLAND, OR 97221

VENDOR NO.	DATE	INVOICE NO.	ACCOUNT NO.	DESCRIPTION	AMOUNT
		80199527		Reimbursement for items stolen 11/3/87	3,000.00

Nº 16952



Department of Geology and Mineral Industries ADMINISTRATIVE OFFICE

910 STATE OFFICE BLDG., 1400 SW 5th AVE., PORTLAND, OR 97201-5528 PHONE (503) 229-5580

November 23, 1987

Marilynne Eichinger
Executive Director
Oregon Museum of Science & Industry
4015 SW Canyon Road
Portland, Oregon 97221

Dear Ms. Eichinger:

The following is a list of items (total value \$4,914.00) that were stolen from the middle display case. Of the 12 faceted sunstones taken (valued at \$1,959.00), five were owned by the Columbia Willamette Faceters Guild (Grover W. Sparkman), 4927 S.E. Haig Street, Portland, Oregon 97206, phone (503) 775-6725. The description of the five stones valued at \$320.00 are as follows:

2/24/88 OK
No. 4, 11 mm, 5.1 ct., Octagon zircon cut, clear yellow color, value \$50.00.

No. 10, 14 mm, 8.8 ct., Pom Pom cut, clear yellow color, value \$85.00.

No. 17, 11.7 mm, 6 ct., Square Modern Cardinal cut, clear yellow color, value \$55.00.

No. 44, 13.2 mm, 9.75 ct, Square Old Mine cut, clear straw color, value \$90.00.

No. 42, 13.7 x 72 mm, 4.2 ct., Bullet Step cut, clear straw color, value \$40.00.

Three of the stones taken valued at \$678.00 were owned by Louise Schwier, 6164 SW Lombard, Beaverton, Oregon 97005, phone (503) 641-2706. The description of the three stones are as follows:

No. 108, 8.5 mm, 2.15 ct., S.B. Raeleng modern cut, red color, value \$397.00.

No. 116, 9 mm, 2.65 ct., Sunflower cut, red-orange color, value \$175.00.

No. 122, 6.5 mm, 1.6 ct., Tri-Step #819 cut, pink-orange color, value \$106.00.



Marilynne Eichinger
November 23, 1987
Page 2

2/20/88
OK

Two of the stones taken valued at \$633.00 were owned by River Bend Rock & Gem (Milo and Aloha Medlock), P.O. Box 205, Spray, Oregon 97874, phone (503) 468-2243. The description of the two stones are as follows:

No. 9, 10 x 24 mm, 12.25 ct., Marquis Box cut, straw color, value \$400.00.

No. 12, 10 mm, approx. 3.5 ct., Free Form cut, yellow-pink color with small amount of shiller, value \$233.00.

2/20/88 OK

Two of the stones taken valued at \$328.00 and were owned by Snow Mountain Gems (Charles & Virginia Weightman), P.O. Box 831, Hines, Oregon 97738, phone (503) 573-7067. The description of the stones are as follows:

No. C-228, 6.7 x 11.2 mm, 1.81 ct., Emerald cut, intense red color, value \$181.00.

No. C-276, 6.1 x 9.8 mm, 1.86 ct., medium red color, value \$147.00.

The bracelet (owned by the people of Oregon) that was stolen had a retail value of \$1,955.00. The bracelet had sixteen $\frac{1}{2}$ -carat sunstones and contained $\frac{1}{2}$ -ounce of gold. The bracelet had four clear colored stones, four champagne colored stones, four pink (shiller) colored stones, and four red colored stones.

The placer gold (owned by Oregon Department of Geology and Mineral Industries) has a replacement value of \$1,000. This collection of jewerly grade nuggets was mainly from the Pine Creek placer in Baker County. There were fifteen 1/4- to 3/8-inch by 1/16-inch nuggets, 10 nuggets about half the previous size, and a small amount of dust. Total weight was a little over a $\frac{1}{4}$ ounce.

Sincerely,

Jerry J. Gray

Jerry J. Gray
Economic Geologist

JJG:ab

xm:eic11-23



December 1, 1987

Mr. Jerry Gray, Economic Geologist
Dept. of Geology & Mineral Industries
910 State Office Building
1400 S. W. Fifth Avenue
Portland, OR 97201

Dear Mr. Gray:

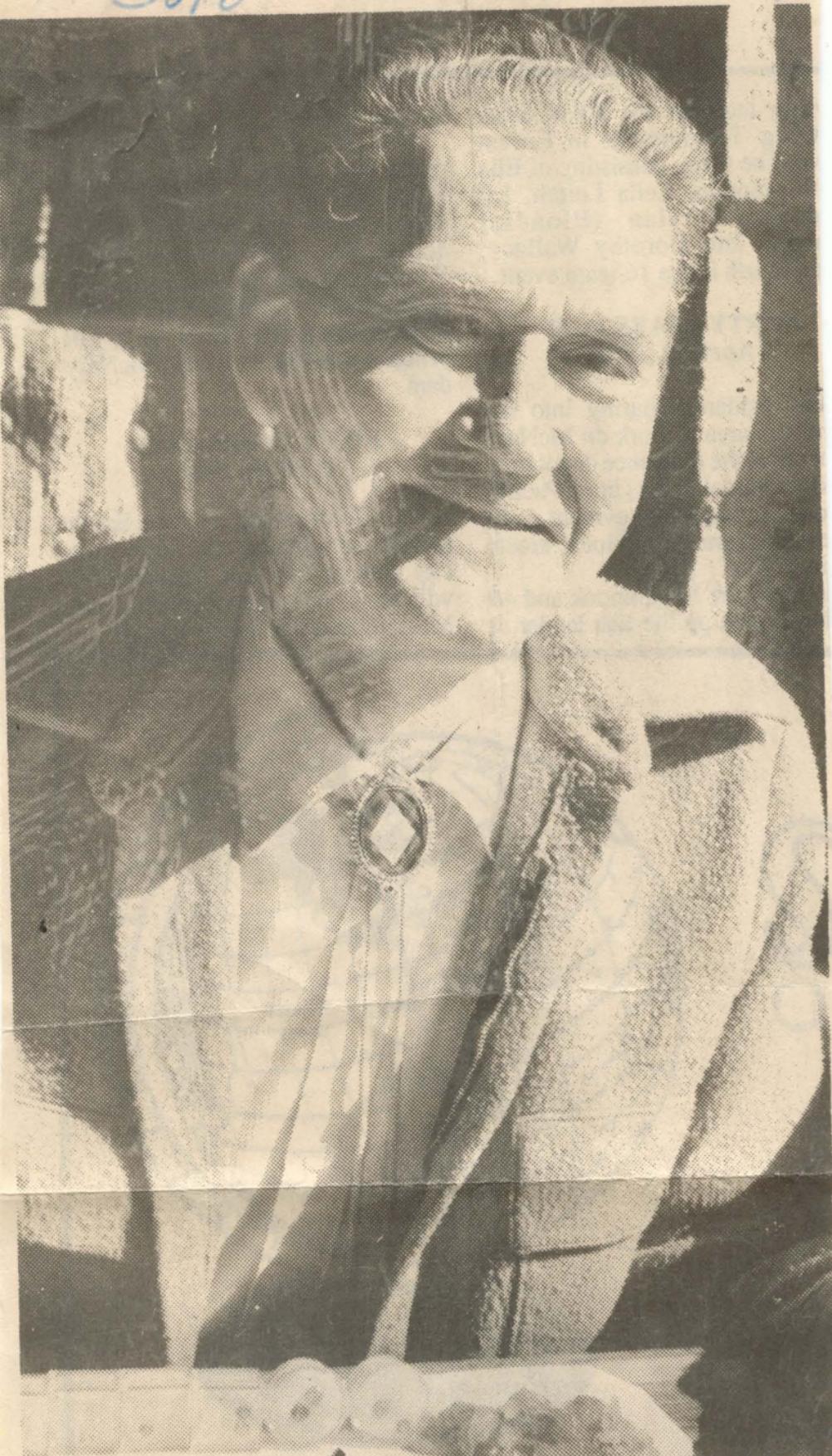
OMSI is very horrified over the theft of gems lent to us for public viewing. As you know we are greatly concerned over the question of security and thought, due to the location and locked cabinets, that we had a foil-proof situation.

The matter has been turned over to the police and insurance company. I will let you know when we hear some news.

Sincerely,

Marilynne Eichinger
Executive Director

5018



OREGON SUNSTONES -- Ron Music, treasurer of the Hatrockhound's Gem and Mineral Society, displays a portion of his collection of the sunstone, the Oregon State gemstone. The transparent gemstone, found in a deposit northeast of Lakeview, develops only in lava flows.

Hatrockhounds to hold 5th annual free show

The Hatrockhounds will hold its 5th annual free show called "Nature's Treasures Under Foot," on April 27 and 28. The show will be held at the Hermiston Senior Center at the Umatilla County Fairgrounds.

Educational displays and demonstrations on such things as opal cutting, rock tumbling, fossils, minerals, petrified wood and agates will be held during the two-day event.

Ron Music, treasurer of the club, will demonstrate facet cutting and display his gemstone collection, including the sunstone. The sunstone is the Oregon state gemstone.

Music said that rockhound season is upon us. He gives this advice for those interested in this gem-searching pastime.

First, watch out for rattle snakes.

"I've never seen a rattler, but they're out there."

They curl under a bush and if you go poking around, you just might find one," he said.

Carry different weights of clothing.

"Especially when digging in the high desert of Central Oregon.

"Nights can be frosty," he added, "Days can be hot."

Equipment doesn't have to be expensive.

"All you need is a rock hammer, a screened box (to act as a dirt sifter), and a shovel. Any shovel to move the dirt will do."

There are a variety of ways to carry the rocks and gemstones you discover.

"I carry a cloth bag attached to my belt," said Music. "I do a lot of walking and like my hands free."

"Some use their pockets, some use a bucket. It's whatever suits the individual person."

"The primary purpose of some (rock collectors) is to sell, others are into the workmanship and craftsmanship aspect, others like to display and demonstrate."

The upcoming show at the fairgrounds is filled with opportunities to sell, display and admire gemstone equipment, supplies and findings.

A snack bar will be furnished by the Hermiston Senior Center and new and old rock hunters can talk with other fellow rockhounds.

MAR. 11, 1986

LIST OF THOSE WISHING TO CUT SUNSTONES TO ORDER FOR LOCAL JEWELERS.

This list will be given to the Oregon Retail Jewelers Assoc.
If called, you negotiate with the jeweler.

Martin Bliefernich	1-538-2879
Helen Bree	636-4755
Roger Carter	292-5257
Al Gerdin	285-3386
Bill Mackie	1-538-3859
John Rieks	1-538-8852
Merle Reinikka	761-7346
Louise Schwier	616-0778 643-1942
Sid Word	246-8684
Donald Olsen	252-6342
Mailand King III	282- 6284 or 760- 3516

Snow Mountain Lens
Baf 831
Lenses, Dec 97738

INVOICE NO.

1018

Phone 573-7067

SOLD TO <i>St French's Jewelers</i>			SHIPPED TO		
STREET & NO.			STREET & NO.		
CITY <i>Albany</i>	STATE <i>One</i>	ZIP <i>57005</i>	CITY	STATE	ZIP
CUSTOMER'S ORDER	SALESMAN	TERMS	F.O.B.	DATE <i>4-23-86</i>	
1	red Heliolite (v-1093) (1.10 ct 7004) <i>Parion Old Mine -</i>				87 00
<i>Donated to Governor's Wife</i>					
<i>2nd card</i>					
<i>Sid L. Stevens</i>					
<i>(a) 15</i>					

INVOICE

REDIFORM

7H 722



Snow Mountain Gems

P.O. Box 831
Hines, Oregon 97738
(503) 573-7067

May 2, 1986

Dear Mr. Gray,

I am enclosing a copy of the Invoice for the gem we donated to the Governor's wife. (I have another copy.) You said you thought you should have a copy for your files.

We have one more clear one finished to send over. I am also working on several small red ones and will do another clear soon.

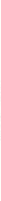
Sincerely,

Virginia Weightman

Prepared by the Lake County, 1973 Chamber
6.5x10
LAKE COUNTY **GENERAL HIGHWAY MAP** **OREGON**

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
OREGON STATE HIGHWAY DIVISION
PREPARED BY THE
IN COOPERATION WITH THE

SCALE 1 : 62500



1 MILE 1 MILE 1 MILE 1 MILE

Precise Coordinates on Landsat Projection
Covers South Pole to Equator and East to West

		1974		SHEET 7	
		1/3	2/3	3/3	4/3
1/1 AD		GENERAL HIGHWAY MAP		LAKE COUNTY OREGON	
APPROVED OCT. NO. 1974				10	

Scallop Claims

Rodgers

POLY(1,4-URIDYLIC ACID)

WATER 2000 — OIL, GAS, TONE	DISPOSAL, P. & H. — INCINERATOR	ROAD, MATERIAL, STOCK, SITE	DRILL, P. & H. — QUARRY	WATER — CARGO	HOTEL, OR BED & BREAKFAST	CAMP
WATER 2000 — OIL, GAS, TONE	DISPOSAL, P. & H. — INCINERATOR	ROAD, MATERIAL, STOCK, SITE	DRILL, P. & H. — QUARRY	WATER — CARGO	HOTEL, OR BED & BREAKFAST	CAMP
WATER 2000 — OIL, GAS, TONE	DISPOSAL, P. & H. — INCINERATOR	ROAD, MATERIAL, STOCK, SITE	DRILL, P. & H. — QUARRY	WATER — CARGO	HOTEL, OR BED & BREAKFAST	CAMP
WATER 2000 — OIL, GAS, TONE	DISPOSAL, P. & H. — INCINERATOR	ROAD, MATERIAL, STOCK, SITE	DRILL, P. & H. — QUARRY	WATER — CARGO	HOTEL, OR BED & BREAKFAST	CAMP
WATER 2000 — OIL, GAS, TONE	DISPOSAL, P. & H. — INCINERATOR	ROAD, MATERIAL, STOCK, SITE	DRILL, P. & H. — QUARRY	WATER — CARGO	HOTEL, OR BED & BREAKFAST	CAMP

Population of Lake County, 1973 Census.

6,570
GENERAL HIGHWAY MAP
LAKE COUNTY
OREGON

OREGON

PREPARED BY THE
KANSAS STATE HIGHWAY DIVISION

THE CIVIL LIBERTIES DIVISION
IN COOPERATION WITH THE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCHEE 1 : 62500
MAPA DE LOS MUNICIPIOS DE MEXICO

Ergonomics 2019, 62, 1181

三

PIANO CONCERTO IN G MAJOR, PRELUDE

Oregon State Law in Transition of 1961

1974 SHI

1180

LAKE COUNTY OREGON

This figure is a topographic map of the Malheur National Wildlife Refuge area, showing a detailed view of the Malheur River, its tributaries, and surrounding landforms. The map is overlaid with a grid system, including section lines and townships. A red circle highlights a specific location in the northwest corner of the map, which corresponds to the location of the study area described in the text. The map shows various lakes, including Blue, Lost, and Malheur Lakes, and the Malheur River. The terrain is depicted with contour lines, and the map is labeled with section lines (T3S, R3E, T4S, R4E, T5S, R5E, T6S, R6E) and townships (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16). The map also shows the location of the town of Vale and the Malheur National Wildlife Refuge boundary.

Lakeview, Ore.
July 6, 1973

Dept of Geology
1069 State Office Bldg.
Portland, Oregon 97201

Dear Sirs:

We are sending you a copy of the two letters we have sent to the B.L.M. in answer to a complaint received from them. Contest # OR1091 dated June 18, 1973 signed by R.B. Herstine, Chief Division of Technical Services.

These two charges are as follows:

A. Minerals have not been found within the limits of the claim in sufficient quantity to constitute a valid discovery.

B. Minerals were not found within the limits of the claim prior to Oct. 8, 1970 in sufficient quantity to constitute a valid discovery.

Since the One Bin devoted the Dec. 1972 issue to the Oregon Sunstones we thought you might like to keep abreast of the happenings in this area.

Inclosed please find \$1.00 for which I would like to have 4 more copies of the Dec. 1972 issue, if they are still available. Will you please send one copy to R.B. Herstine Portland Office B.L.M. P.O. Box 2965 and forward

the other 3 to us.

Thank you,

Respectfully,

Bob Rodgers

B. E. Rodgers

Box 1369

Lakeview, Oregon

97630

Copy No I

Lakeview July 3

U. S. Dept. of Int.
Bureau of Land Management
Ore. State Office Box 2965-
Portland, Oregon 97208

Sirs;

Regarding Blytownite No I Located Aug 3, 1970
Recorded Aug 3, 1970 in Vol 17 pgs. 273-4 Mining
records of Lake County Twp. 33 S. R. 24 E Willm Sec
3 & 10 portions of. More specifically contest No.
OR 10910 (3950-943-1) all allegations are denied
and R. E. Rodgers will furnish proof to refute
any of the contestants charges. R. E. Rodgers
began mining on this claim in June 1970
and has proof of it. This operation continued
July Aug, Sept. & into Oct. During this period at
least \$10,000.00 Value of stones were mined.
During 1971-72-73 these stones have been sold
at an increasing rate with prices as
follows. Pink spherulites \$2.00 gram Red & Green
\$4.00 gram. Bgy. Inclosed Price list.

At the present time stones mined from
the claim are selling at a rate of \$300.00
per month.

The claim Spectrum No I formerly owned
by Don W. Seller adjacent to Blytownite on
the east is now owned by Barbara Rodgers
and the above statements will apply to this
Claim also and we hereby deny any
charges the Contestant might have against

this claim.

signed. R. E. Rodgers

July 3, 1973

This letter is to refute and deny any claims against Spectrum No 1 formerly owned by Don W. Sellers and presently owned by Barbara J Rodgers.

Previous to Oct. 8, 1970 Don Sellers did mine and produce at least \$200000 value of sunstones from this said claim.

We are unable to contact Mr. Sellers and are taking this opportunity as the new owner to deny any charges and to inform the B.L.M. that Barbara J Rodgers is the present owner and intends to protect her rights to the mining operation of this claim.

signed - Barbara Rodgers

Copy No II

Lakeview, Ore.
July 6, 1973

U.S. Dept. of Interior
Bureau of Land Management
Ore. State Office Box 2965
Portland, Ore. 97208

Sirs:

This should be considered an addenda to the registered answer submitted to your office on July 3, 1973. I am respectfully submitting publications for your consideration, with information concerning Calcic labradorite (Aunstone) with which you may not have become acquainted.

Also I request that [#]5-B in Contestant complaint [#]OR10910 be dismissed as irrelevant.

Ref. Federal Register Vol. 36 [#]73 Page 7204-4. 452-6. State of Oregon Dept. of Geology and Mineral Industries March 1970.

Mining Law Summary for Oregon Prospectors. No time is specified as a requirement for proof of valid claim. One admit that it is a

requirement to expose a mineral bearing vein or deposit and this was done by both Biotwainite [#]1 and by Hon. W. Sellars on Spectrum [#]1. Shown to a Mr. Nelson of B. L. M. from the Portland office and a Mr. Zeegler of the Lakeview office in Sept 1970. Will within

time of proof of deposit if any time is relevant. Also at this time (Sept. 1970) proof of an extensive deposit on these claims was shown to Mr. Nelson and subsequent mining has proved this contention.

Conceming ⁵⁷ Contest ^{II} CR 10910 I as ~~owner~~ of Bytownite I will be pleased to furnish proof of a sufficient quantities of labradorite to constitute not only a valid discovery but a substantial one.

Question; What is the definition of sufficient quantities? Could Contestant be asked to furnish this definition before any action is taken?

At the time of Mr. Nelson's first visit to the claim I was informed by Mr. Nelson that he was "totally prejudiced" His words, against these claims. His action in including these claims in the withdrawn area, when there was sufficient other areas with sunstones, is further proof of bias. Also in further effort to include these claims in the withdrawn area at least one and one half sections were included which are completely devoid of sunstones.

Ref. One Blk Dec 1972 Article by N. V. Petersson, Plate FI.

Further proof of unusual treatment

of these claims is the fact that other claims have been filed outside the withdrawn area and to this date have not been questioned in any manner either for productivity or validity.

Our prior rights on the first 6 claims should advocate any treatment different & unusual from the treatment given any claim outside the withdrawn area.

The mining on claims Bystownite #1 and Spectium #2 was conducted for four months in 1970, 7 months in 1971, 7 months in 1972 and thus far 3 months in 1973 and will be continued until sometime in Oct. or until the ground freezes.

The mining and selling of the sunstones is the one and only occupation of Bob & Barbara Rodgers.

For reference on the importance of the gem stone industry in the State of Oreg. read the Preliminary Annual Report of 1969 Mineral Industry Survey, U. S. Dept of Interior Bureau of Mines.

Also I might have the temerity to suggest a talk with N. V. Peterson of the Oreg. Dept of Geology and Mineral Industries concerning the importance of this discovery.

copy sent to

N. V. Peterson

signed - R. E. Rodgers

GENERAL HIGHWAY MAP
HARNEY COUNTY
OREGON

PREPARED BY THE
OREGON STATE HIGHWAY DIVISION
 IN COOPERATION WITH THE
U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

1974

PLATE CAVITATION AND LAMINAR PROBLEMS

973

1

2

1

A map of Oregon showing county boundaries. A large black rectangle covers the central portion of the state, representing the area of the study.

7,120
Collection of Henry County, 1873

A detailed topographic map of a region in Oregon, showing county boundaries (Malheur, Grant, Crook, Deschutes), forest areas, and a grid system. A red circle highlights a specific location in Grant County, and a yellow dot is placed within the circle. The map includes labels for 'NATIONAL FOREST', 'CROOK COUNTY', 'DESHUTES COUNTY', 'GRANT COUNTY', 'MALHEUR COUNTY', and 'NATIONAL FOREST'. A scale bar indicates distances up to 10 miles. A legend in the bottom left corner shows symbols for roads, rivers, and land ownership.

Snow Mountain Gems
P.O. Box 831
Hines, Oregon 97738

INVOICE NO.

1006

Phone (503) 573-7067

SOLD TO On loan to - Oregon State Dept of Geology and Mineral Industries		SHIPPED TO Jerry J. Gray			
STREET & NO. 1005 State Office Building		STREET & NO. 1005 State Office Building			
CITY Portland	STATE Oregon	ZIP 97201	CITY Portland	STATE Oregon	ZIP 97201

INVOICE

CUSTOMER'S ORDER		SALESMAN	TERMS	F.O.B.	DATE	
# C-228	Heliolite Intense Red Oval 11.2x6.7mm	1.81 ct	\$100.00 per ct	\$181.00		
# C-276	" Medium Red Emerald 9.8x6.1mm	1.96 ct	\$75.00 per ct	\$147.00		
# C-26	" Green/Pink Round 8.5mm	2 ct	\$45.00 per ct	\$90.00		
# V-198	" Pink Round 5.5mm	.7 ct	\$45.00 per ct	\$31.50		
# V-304	" Pink Gpt Star 6.0mm	.95 ct	\$45.00 per ct	\$42.75		
# C-146	" Green Round 5.3mm	.58 ct	\$45.00 per ct	\$26.10		
# C-392	" Pink Double Star 7.0mm	1.40 ct	\$45.00 per ct	\$63.00		
# C-209	" Pink Triangle 8.8mm	1.76 ct	\$30.00 per ct	\$52.80		
						Total - \$634.15

REDIFORM

7H 722



VICTOR ATIYEH
GOVERNOR

Department of Geology and Mineral Industries
ADMINISTRATIVE OFFICE

1005 STATE OFFICE BLDG., PORTLAND, OREGON 97201 PHONE (503) 229-5580

December 24, 1985

Mr. & Mrs. Charles Weightman
P.O. Box 831
Hines, Oregon 97738

Dear Mr. & Mrs. Weightman:

The attached list shows which sunstones we selected for Expo-86 and which ones were sent back. The four which were sent back had a total value of \$190.05 and the four which were kept had a total value of \$444.10.

Thank you.

Sincerely,

Jerry J. Gray
Economic Geologist

JJG:ab

Enclosure



Snow Mountain Gems

P.O. Box 831
Hines, Oregon 97738
(503) 573-7067

October 7, 1985

Dear Mr. Gray,

We received the article on Lake County Labradorite this morning, and Thank You. It is interesting, but too bad they didn't have some of the material from our claims.

I finally found the articles regarding State Rocks and Gems. There are two of them in the Lapidary Journal -- July and August, 1984 issues. They were written by June Culp Zeitner.

There seem to be five states that have a State Gem as well as State Rock and State Mineral. The ones I found are California, Georgia, Arkansas, Nebraska and Massachussets.

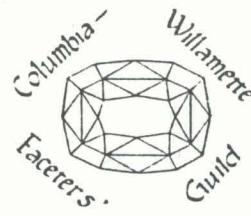
Might be a good project for the Portland Faceter's Guild to work on -- have the Sunstone (Heliolite) declared a State Gem. It would help a good deal with the promotion of the stone. Benitoite is the California State Gem and it has helped in the promotion of that stone.

I am enclosing a small sampling of our material. We are about out of the very good red, but there are a couple of small pieces that are close to the same intensity of red.

Incidentally, I called the Portland BLM office and spoke to a gentleman there that stated that 'no one could ~~secretly~~' lay a lode claim over a placer claim. He said those old rulings had not been turned over, but the time might be ripe for someone to try. This is what we have been told by many people in the industry, but whether it will hold up in court remains to be seen.

Sincerely,

Virginia Wrightman



Thanks from the Northwest Faceters Conference to CWFG charter member, AL GERDING for his research in supplying the following information on the current pricing schedule of Oregon Sunstones or Heliolite.

Current Prices as of May, 1989.

SNOW MOUNTAIN GEMS, Hines, Oregon.

Rough 2-6 ct. Reds and Greens-----\$8.00/gram.
 Large Reds & Greens Individually priced.
 Pink with some Schiller----- 3.00/gram.
 Colorless/Straw-Yellow----- 0.25/gram. (5¢/ct.)
 Large colorless-----priced individually..

SHADY COVE ROCK SHOP, Shady Cove, Oregon.

MINE RUN Tumbling rough-----\$10.00/lb.

RAMSEY'S ROUGH HOUSE. California (Check address in Lapidary Journal)

Rough Reds and Greens-----\$12.00/gram.

CUT SUITE of Five Red, Green, and Red-Green--35 cts total weight --\$3,500.00

KERRY MARSHALL. Redlands, Oregon.

The last time Al saw Kerry, he had a large jar of small pinks, reddish, and greens to about 6 carats at \$1.25/ct.
 Large clear stones in the 15-40 ct. range were 15¢ to 20¢ per carat.
 (These stones were as found in field, not tumbled)

LAPIDARY JOURNAL has listings of several sources with some prices given. One source is in Massachusetts and was quite high priced.

THE FOLLOWING PRICES ARE CURRENT RETAIL IN THE PORTLAND, OREGON AREA.

Common clear/straw---- up to 3 carats----@\$10.00ct.
 (Average quality)

over 3 carats---- \$15.00 per carat.

Unusual cuts and exceptional stones--individually priced and negotiable.

Pinks----- \$40.00 to 60.00 per carat depending on clarity and depth of color.
 Higher for unusual cuts or exceptional quality.

Reds and Greens----\$100.00 per carat up to about 8mm.

Larger stones are priced individually and may go up to 3X or 4X the above figure dependent on size and quality, complexity of cut, etc.



THE PONDEROSA MINE SUNSTONE:

Sunstone is a member of the feldspar group of minerals and is closely related to Moonstone. The Ponderosa Mine produces two kinds of material.

One with schiller which is caused by millions of microscopic copper platelets. These copper platelets reflect light with varying intensities depending on their concentrations. The Sunstones with schiller are cut as cabochons.

The Ponderosa Mine also produces fine facet grade material. The facet grade stones come in pieces up to 10 grams. Sunstones have a hardness of 6 to 6.5 and therefore are quite durable.

The Sunstones from the Ponderosa Mine come in a wide range of colors including yellow, pink, peach, salmon red-orange, red-green and blue-green. There are also bi-colored red and

green stones. The best red facet grade stones from the Ponderosa Mine are among the finest red gems known to man.

Sunstone has been used as a gemstone for centuries enjoying periods of high demand. Sunstone has been plagued by inconsistent supply. However, with the opening of the Ponderosa Mine there will be a consistent supply of superb quality material. The Ponderosa Mine's production will be available as rough and cut stones

The Ponderosa Mine Sunstones represent a fabulous new find in qualities and quantities never before available. Because of this they are moderately priced and represent a real value to collectors and gemstone aficionados alike. When set alone or in combination with other gems Sunstones make a fabulous addition to any collection.

5/11

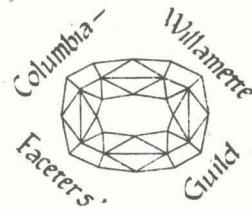
Terry G,

Please call Paul Lawson
© (206)- 694- 4814.

He is arranging a display
for a June 8-11 gem
show to be held in Portland

He would like to arrange
to borrow the sunstone jewelry
w/ appropriate credits to
DOGAMI & jewelers.

This borrowing is fine w/ me
& will be helpful to sunstone
diggers.



1986 MEMBERSHIP DIRECTORY

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"FACETS" Editor	Grover Sparkman	Work	775-6725
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MEETINGS:

SECOND TUESDAY each month -- 7:30 p.m.
 Trinity Luthern School
 5520 N.E. Killingsworth
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OFFICERS BOARD MEETING:

FIRST TUESDAY each month --Members welcome--
 call Vice-President for location.

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 CORRESPONDENT MEMBER -- CM
 DATE JOINED GUILD -- 00/00



THE PONDEROSA MINE

Oregon Sunstone

October 17, 1990

Jerry F. H.



Ms. Beverly Vogt
DOGAMI
910 State Office Bldg.
1400 SW Fifth Ave.
Portland, OR. 97201

Dear Beverly:

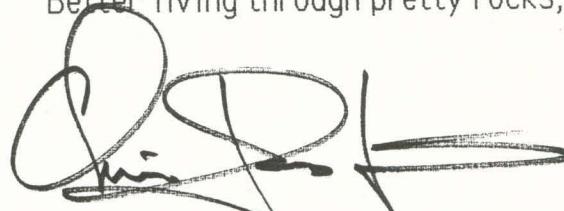
I really enjoyed speaking with you yesterday about the Ponderosa Mine and Oregon Sunstone. I have enclosed a copy of the article that will be published by the Lapidary Journal and a sidebar that deals with a literature controversy that has come up over the name heliolite which has been suggested as a replacement name for sunstone.

As I indicated in our conversation I will be very happy to help you with your brochure at any level of participation you need. I would expect that I will begin to get our photos back in the next 2 or 3 weeks. After I have seen what you have produced for your other projects I can be of better help.

On a personal note yesterday you mentioned that you have funded graduate students working in other areas. I am wondering what the procedure would be to make an application for some assistance on my thesis area and project? I have a few things that I have wanted to do in the way of analysis that because of the expense I have not done yet ie dating of the four flows and dating of the plagioclase phenocrysts. If you could steer me in the right direction I would appreciate it greatly.

I look forward to working with you on these projects,

Better living through pretty rocks,



Chris Johnston
Geologist

If there were a name for the intensely colored facet grade labradorite from Oregon that would make sense, inform, roll off your tongue in a pleasing way and inspire retailers and consumers alike to purchase this beautiful gem we think all concerned parties would be satisfied regrettably such a one word fix does not exist including the often proposed "heliolite".

With the development and production increases at Eastern Oregon's Ponderosa Mine, deeply colored facet grade sunstone has found its way into the marketplace. This new supply has rekindled a 10 year old quest for a name that will differentiate this facet grade material from the cabochon grades mined in this and on a very limited basis the Plush location.

In his January 1989 Lapidary Journal column Mineral Notes Frederick H. Pough, Ph.D. renews his quixotic pursuit of the name heliolite. If he was equally ardent in his pursuit of "lunalite" to replace moonstone we would probably let it pass. We are troubled by a number of things in this 1989 column titled "Heliolite and Sunstone". For instance Dr Pough intimates that he [using the imperial we] is responsible for resurrecting the name heliolite from 19th century French obscurity and the 6th edition of Dana. Yet in his 1983 British Journal of Gemmology "Heliolite, A transparent, Facetable Phase of Calcic Labradorite" Dr. Pough credits the creation of the name to Mrs. Rogers [p. 511-512] who is the widow of one of the original claimants at the Plush location. In the 1983 article there is no mention of the somewhat tedious and certainly obscure references that Dr. Pough uses as defense and justification for heliolite in his impassioned Mineral Notes discussion. Interestingly though in the 1989 Mineral Notes column there is no mention of Mrs. Rogers as originator, her feelings must be bruised at this

glaring omission. We wonder which came first, Mrs. Rogers or the references and why the confusion? Dr. Pough also neglects to mention except in passing [and not by name] in his recent column the Ponderosa Mine which is certainly the worlds premier deposit of gem labradorite.

The production of Oregon sunstone at the Ponderosa mine of all grades will in a few short years exceed the entire historical production from Plush . As owners of this commercially extensive deposit, responsible scientists, and gem traders we demand some say in what nomenclature is accepted! First, and perhaps foremost we would like to concur with this publications editor Merle Berk who in her August 1990 column Touchstone makes a logical, reasonable plea for intelligent nomenclature. After all since there is no difference between uno and one there is no logical, intrinsic, informative difference between heliolite and sunstone. Any meaning that would be attached to heliolite would be a fabricated contrivance. As such heliolite is absolutely unacceptable.

As scientists if we were given samples of all types of Oregon "sunstone", told it was labradorite and asked to name it we would offer this; transparent to translucent, red, green and bi-colored, schiller structured, pleochroic labradorite. Which would clearly tell all what it is but to the gem community it would be a useless unwieldy mouthful. Remember as wonderful a stone as this material is and even though it exhibits optical phenomenon and physical properties that by definition are unique to the Oregon labradorite deposits it is still simply a variety of plagioclase feldspar . Consequently by convention again as Merel Berk has pointed out the suffix

"lite" or "ite" is or should be reserved for new, clearly unique species of minerals and not as a convenience or marketing whimsy.

So then the question is what do we call this material? First we would like to point out that any formal nomenclature changes, will be met with a great deal of resistance by the people in the trenches, "you can call it what you want but as far as I am concerned it is, and always will be, "Oregon sunstone." Also it is likely that any nomenclature that attempts to differentiate Oregon sunstone strictly by a single physical characteristic will not be accepted and adopted by scientists and the I.M.A. who thankfully has jurisdiction over mineral names.

If we can all agree that by definition sunstone independent of location is a feldspar that has schiller structures we see no reason to search for another name to be applied to the Oregon transparent facet grade material. Why?, because careful examination of this material reveals that there are always schiller structures present. Even though at the extreme the schiller structures approach adventerescence, there is no clear line of demarcation between these two physically similar physical properties. Because of this, differentiation based on this single property is risky at best. We agree that there is an argument for calling the top Oregon facet grades, gem labradorite or even precious labradorite, but what then would the incredibly beautiful, equally rare, deeply colored cab material with visible intense schiller structures be called, cab-heliolite? heliocabolite?

Quite obviously this material is every bit as much a gem as the more transparent material. To attempt to differentiate this material by the presence of body color and the relative intensity and size of schiller

structures as Dr. Pough has tried and Gordon T. Austin does in Colored Stone Magazine [September/October, 1989, pp.28-29] ignores the facts and attempts a simple solution to an extremely complicated mineral occurrence.

In conclusion regardless of its scientific propriety Oregon sunstone is the name that is and will continue to be applied to the entire range of production from the Ponderosa Mine, in the literature and in our marketing efforts. It may not be as ascetically pleasing a name as could be wished for but, and this is really the point, we all understand that when someone says "Oregon sunstone" they mean a mineral that is a plagioclase feldspar, that possesses a very wide range of physical properties, is unique to Oregon and most importantly is absolutely beautiful. We sincerely believe that, that is justification enough.

Chris Johnston: Ponderosa Mine Article: Mining the Sun

Deep in the Ochoco National Forest the hot still summer air is disturbed only by the steady sound of hard work, muted grinding of a shovel scooping red brown gravel from a waste high pile followed by the swish of gravel hitting a long sorting screen. This is the Ponderosa Mine in Eastern Oregon's Ochoco National Forest, the finest gem labradorite deposit known today. North of Burns, South from John Day [Fig. 1]. The mine itself is 5700' above sea level perched on a slight rise above a 500 acre wild lily meadow [Fig. 2.] just into the giant Ponderosa trees [Fig. 3]. There are springs above and below the mine that run year round with clear sweet water. Abundant wildlife inhabits the forest and the meadows, yellow tanagers, gray jays, reclusive ravens, birds of prey large and small occupy the sky. Elk, giant mule deer, prong horn antelopes, coyotes, rabbits, mice, squirrels, brown and gray and the smallest chipmunks I have ever seen inhabit the forest and the meadows. This is truly a magic place made all the more so by the presence of this incredibly rich deposit of gem feldspar.

Geology/History:

The Southcentral part of Oregon is a classic volcanic region. The area is dominated by shield volcanos, solitary cones, huge deposits of rich red cinders, and cliffs of basalt. Volcanically active from 22 million years ago through the recent past the predominant rock types are those common to volcanic terrains, dark basalts and andesites, creamy white and light gray rhyolites, and welded ash fall tuffs. All these rock types come from the earth in fiery waves flowing out of fissures in the earth like syrup one on top of the other conforming to the terrain below leveling at the new surface.

Chris Johnston: Ponderosa Mine Article: Mining the Sun

Or in the case of the ash falls from explosive volcanic activity, falling out of the sky like snow, only hot, hot enough in fact to melt glass.

Somewhere under the earth many millions of years ago there was a giant magma chamber of molten rock two or three miles beneath the surface. This magma chamber had chemical and temperature conditions that stayed the same for a very long time, perhaps millions of years. This large body of molten rock had all the necessary ingredients to grow labradorite feldspar, which is a calcium rich plagioclase. Feldspars are in fact the most common mineral on the surface of the earth. The way these crystals grow is just like growing rock candy sugar crystals out of heavy sugar water. The molten rock begins to cool and as it passes through 2400°F crystals of labradorite start to form. What makes the magma chamber that produced these sunstone crystals in the Ponderosa flow unique is that the conditions stayed ideal for a very long time. It is this stability that accounts for the growth of large [4 in. x 2 in. x 2 in.] crystals that weigh nearly one pound. Of course the other thing that happened is that copper was incorporated into the labradorite as it was growing, and it's the copper that makes the material sunstone. At the time the lava flowed onto the earth it had cooled below the melting point of the copper in the feldspar crystals. When this happened the copper precipitated out just like the rock candy illustration along crystal planes in the sunstone crystals. It is the copper that forms the schiller structures, and it is the schiller structures that give the cabochon grade material its incredible physical appearance [Fig. 4]. Lastly it appears

Chris Johnston: Ponderosa Mine Article: Mining the Sun:

that copper may play an important part in the vivid body coloration present in the facet grade labradorite material from the Ponderosa Mine.

At some point long after the labradorite crystals began to grow this magma chamber was vented through a crack and poured out onto the surface. This venting could have been caused by an earthquake or perhaps the crack developed as a result of pressure increases that were too strong to be contained. Whatever the reason it resulted in molten rock flowing out onto the earth like a wave. When this wave flowed out onto the surface it dragged the large, still growing feldspar crystals with it, like chocolate chips in a cookie batter. Understand however that this molten rock flows very quickly much more like water than cookie batter and also that it is very hot, in fact likely over 2100°+F.

The Ponderosa flow is only one in a long series of basaltic lava flows that cover this part of Oregon. At the Ponderosa Mine there are four distinct basalt flows that chemically are essentially identical. The lowest flow, the top of which forms the large meadow adjacent to the mine is known as the Aragon Flow. Because of topography it is not possible at this time to determine the thickness of the Aragon flow. But because of physical indications it seems logical that the Aragon flow is 35 to 50 feet thick.

The gem bearing Ponderosa Flow lies directly on top of the Aragon Flow. It appears to be thicker than the Aragon Flow, on the order of 60 to 80 feet thick. The Ponderosa Flow is a basalt porphyry which means that it is a

Chris Johnston: Ponderosa Mine Article: Mining the Sun:

rock that is basaltic in composition, that is fine grained and contains large phenocrysts or crystals. Surface exploration indicates that the Ponderosa Flow is not only thick but also covers a large area. The Ponderosa Flow is also distinct from the flow above and below because it has undergone significant hydrothermal alteration or hot water decomposition which has left the rock soft and easy to work as long as it stays wet. The other flows have exhibited little such alteration.

The two basalt flows that lie on top of the Ponderosa Flow are the Cleves and Howard Flows. Like the Aragon Flow the Cleves and Howard flows are barren of large gem sunstone crystals. The Cleves and Howard flows each appear to be about 50 feet thick. Lying on top of the Howard flow is the Deadhorse Tuff. This rock is made up completely of quartz rich ash that fell from the sky during a volcanic eruption. The Dead horse Tuff forms the upper half of the butte.

Nomenclature and History

Sunstone is a name that has been applied to numerous varieties of feldspars that all exhibit a yellowish white to red orange body coloration and have schiller. There is some question as to whether the name Sunstone refers to its similarity with the color of the setting sun or that it's recovery from the surface has been aided by it's glinting in the sun. Feldspar varieties that have been called Sunstone include oligoclase, orthoclase and

Chris Johnston: Ponderosa Mine Article: Mining the Sun

labradorite. Additional confusion about Sunstone arises from inconsistency in the definitions of schiller and schiller structures. And perhaps most confusing of all is what do you call the facet material that does not exhibit schiller structures?

In an effort to eliminate confusion, I propose the following explanation. Schiller is essentially the same phenomenon that gives moonstone its visible characteristics. In moonstone this effect is known as adventuresence and it is caused by the regular arrangement of tiny inclusions in crystal planes. The inclusions are so small that they can only be seen with very powerful magnification. The schiller effect in sunstones are caused by the quasi-regular arrangement of inclusions in crystal planes but these inclusions are large enough to see with the naked eye. So the difference between adventuresence and schiller is the size of the inclusions that cause the optical effect. By this definition the gems from the Ponderosa Mine that have schiller structures are of course sunstones. Since the schiller bearing sunstones of Oregon are unique because the schiller structures are being caused by copper it would seem to be advisable to differentiate this material by simply calling it Oregon sunstone. With regards to the facet grade material that does not obviously exhibit schiller structures I would propose that they also be called Oregon Sunstone. [see side bar]

Gem grade feldspars have been used throughout history for jewelry and for carving purposes. Sunstone has been known for thousands of years. In

fact there are accounts of Sunstones being found in 1000 years old Viking burial mounds. Like the historical use of ilolite as a direction finder there are indications that the Vikings believed there sunstones were useful as an aid to navigation.

Chris Johnston: Ponderosa Mine Article: Mining the Sun:

The Sunstones from India, Russia, Finland and Norway are all feldspars just like the sunstones from the Ponderosa Mine but all the other sunstones in the world get there schiller structures from the iron oxide hematite. That is what makes the copper sunstones from Oregon so special.

Sunstone has historically suffered from sporadic inconsistent supply. However with the discovery at the Ponderosa Mine the world can look forward to a long term consistent supply of superb material. In fact the sunstone deposit at the Ponderosa Mine prompted the Oregon Legislative Assembly to proclaim the sunstones of Oregon the official state gemstone. At the present time the only Ponderosa Mine rough material for sale are the cabochon grades. There may come a time when production catches up with demand and at that time there will be a limited amount of the rough facet grade material available for sale.

The Ponderosa Mine represents a relatively new find of gem grade labradorite feldspar. The deposit was originally discovered in the summer of 1980 when a logging operation cut roads through the area and cowboys running range cattle discovered clear crystals on the surface. Subsequently the area was claimed as federal mining claim and initial mining activities were begun. The Ponderosa Mine becomes the third known deposit of

Sunstone in Oregon. The other two deposits are the well known Lakeview deposit in extreme southern Oregon and the third as yet undeveloped deposit in southeastern Harney county near the White Horse ranch.

Chris Johnston: Ponderosa Mine Article: Mining the Sun:

As mining activities have continued it has become obvious that the Ponderosa Mine produces the widest range of colors in labradorite feldspar ever discovered. The material that has schiller ranges from pale yellow body color through light pinks and salmons to red/orange, red/brown, pure intense red, into red/green, silver/green and blue/green with a touch of red. The facet grade material comes in all the colors of the rainbow except blue, although shades of red and green are the most common [Fig. 5].

At its best the red facet grade material from the Ponderosa mine is as fine a color as the finest ruby or red spinel from Burma, blue greens like emeralds, gray green like green diamonds, peaches and orange roses that can double for imperial topaz. Last year the Ponderosa Mine produced the largest faceted deep red labradorite discovered in modern times the Ponderosa Queen weighed in at 10.78 carats. It may be that this stone is the largest of its kind ever found. As mining continues the Ponderosa Mine will surely produce more of these large incredibly rare stones [Figs. 6,7].

Interestingly the mine seems to have zones that produce a predominant color or range of colors. The Christmas Tree Pit produces very large red/green schiller, large red and bi-color facet grade and 95% of every kilo of material is water clear with a slight yellow cast. 75 feet away in

the Killer Schiller Pit the pieces are smaller and nearly every one of them shows varying degrees of schiller. In the Killer Schiller Pit the facet grade material is small 1 to 2 gram pieces that are intense deep red. The killer Schiller Pit does not produce any green or bi-colored stones. It is in the

Chris Johnston: Ponderosa Mine Article: Mining the Sun:

Christmas Tree Pit that the largest facet grade pieces have been found including the 10.78ct Ponderosa Queen [Fig. 8].

The texture and intensity of the schiller cab grades is superb. In low light conditions it looks great! To see a piece of schiller material by moonlight is impressive as the material loses none of its optical power. And it looks incredible in bright direct sunlight. Cabs in the moonlight are magical in their warm glow. The Ponderosa Mine produces pieces of intense red body colored schiller material that can cut beautiful cabs up to 25 carats.

The labradorite crystals from the Ponderosa Mine commonly show perfect cleavage in two directions and perfect parting in the third. This feldspar has a hardness of 6, specific gravity of 2.71gms/cm^3 , and a refractive index of 1.56. The facet grade red/green bi-color material also exhibits strong pleochroism [different color in different directions] which is very unusual. What exactly is the cause of color in the feldspar from the Ponderosa Mine is at the present time unknown. However I am part of a team of mineralogists from the College of Mines and Earth Resources at the University of Idaho that is using state of the art diagnostic equipment to try

and answer this question and all the others posed by this fascinating gem material.

Mining Methods:

Initially mining at the Ponderosa Mine was strictly done by pick, shovel and hand screens [Fig. 9]. As time went on though we had to

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mechanize the mine to meet the incredible demand for Ponderosa Mine sunstone. Today we use a Large back-hoe, compressor with a jack hammer, and a bull dozier to loosen and move the gem bearing hard rock and dirt. This ore material is loaded onto a 1 inch screen on top of a hopper where it is broken up by hand with a five pound short handled sledge hammer [Fig. 10]. The large pieces, basketball size and up are quickly reduced to 3 inch pieces and smaller.

We have found that the big rocks will break or crack preferentially along the long axis of the sunstone crystals. There is very little damage done to the gems with this method although once in awhile you smash a nice one and it makes you a little sick when it happens. The rocks that wont break below the 1 inch screen size are discarded of the end of the screen. The ore material that is smaller then 1 inch drops through the screen onto a 25 foot steep upwardly inclined conveyor, the conveyor then drops the dirt and gravel onto a 20 foot steep downward quarter inch shaker screen where all the fines drop out onto the mine dump. The ore material that is 1/4 inch+ and 1inch- is stockpiled at the end of the long 1/4" screen. During a run of 12 to 15 bucketsfull the gravel pile at the base of the long screen will build to be 8' square and 3' high. It takes about 2 hours of very hard work to "make a pile" and then takes the rest of the day to shovel it

four or five shovels full at a time onto the long 1/4" roller mounted final sorting screens [Fig. 11]. The days production is put in a vibrating tumbler for 45 minutes and then the gem materials are sorted by grade for sale or cutting.

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The mining day starts early at the Ponderosa Mine. The hot mountain sun comes blasting into camp at about 5:30am making it impossible to sleep. But the excitement of the coming day and the finds that will come get your blood pumping. We usually have fresh ground coffee on the deck off the large trailer house and enjoy the still mountain morning listening to the forest wake up. After a light breakfast we load up the trucks and go up the hill to the mine. Usually we work straight through until 2 or 3pm when we go back down to camp and have a little lunch and take a short siesta. After the afternoon rest we go back up the hill and work until the light fails. Then its down the hill to a well earned dinner. One of the biggest improvements to our daily lives at the mine was the purchase and installation of a instant fire propane water heater for hot showers! We ran a 1800' water line from the upper spring into camp for water and what a difference in attitude it makes. You don't mind getting incredibly dirty if you know you can get clean at the end of the day [Fig. 12]

While showers are being taken the generator is started to charge batteries, run the lights and tumble the days production. Dinner is usually served late and is always hearty fare, mostly barbecued over a mesquite fire. After dinner if there is time we relax and play a little cribbage or just

sit back and enjoy the cool night air and the days adventures. Sleep comes early in a mining camp and it is a welcome friend as it refreshes the body and mind for the coming days work. And fresh you must be because at any moment the Ponderosa Mine might release another giant ruby red labradorite crystal and you won't want to miss it.