

MINING REGULATIONS

As "Nepheline Syenite is the only readily soluble natural raw material source of Alumina and Silica" this is a Value Added, FoamKrete™ 'Best Use' 36 CFR...

PLAN OF OPERATIONS FOR MINING ACTIVITIES ON NATIONAL FOREST SYSTEM LANDS

applied for on the

**TABLE MOUNTAIN, LINCOLN COUNTY,
OREGON, MINING LAW OF 1872
CLAIMS "Nepheline 1 to 32"
ORMC 151343 to 151374**

prepared by claim holder

Barry Murray of "TheProspector.com"

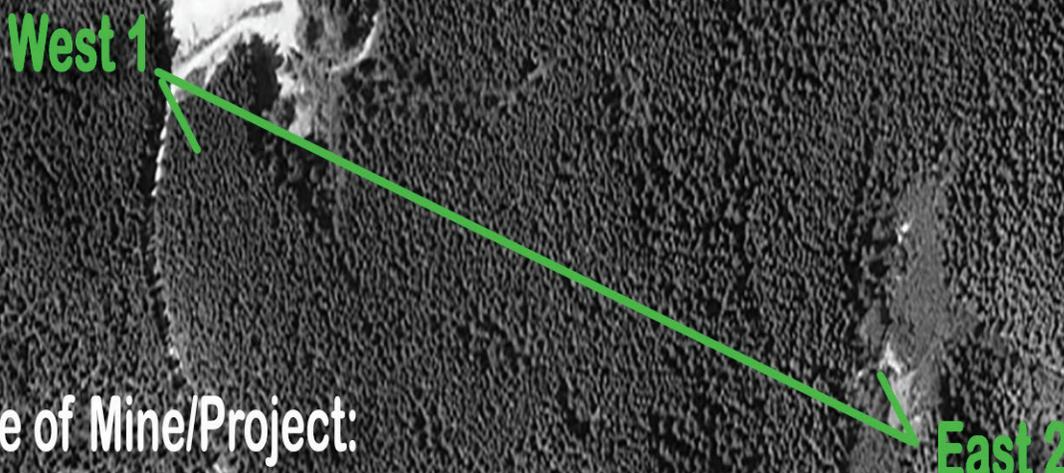
for ECO-MINING-MILLING LIMITED COOPERATIVE ASSOCIATION LLC

USE OF THIS FORM IS OPTIONAL! 1st TIME USERS SHOULD DIRECT QUESTIONS REGARDING THIS FORM OR REGULATIONS (36 CFR 228A) TO THE FOREST SERVICE DISTRICT OFFICE NEAREST YOUR AREA OF INTEREST.

PLAN OF OPERATIONS FOR MINING ACTIVITIES ON NATIONAL FOREST SYSTEM LANDS

I. GENERAL INFORMATION

West 1



A. Name of Mine/Project:

East 2

A minimalist surface disturbance Plan of Action for the proven Nepheline Syenite deposit on Table Mountain, Lincoln County, Oregon, administered by the Waldport office of the Central Coast Ranger District, Siuslaw National Forest, USDA Pacific Northwest Region Six.

To properly protect the valuable surface rights of the rainforest shown here in a USGS aerial photograph, the project is to drive an underground tunnel at elevation 2,440 feet, for one mile, between the grandfathered in quarries shown in green as West 1, to East 2.

hardens by chemical reaction with water (hydration) capable of doing so underwater (ACI 225R).

All of the Oregon and Washington Pacific Coast is under tsunami threat of the offshore geologic event of Cascadia Subduction Zone earthquakes that have been geologically reoccurring since Table Mountain was created as a Pacific Ocean “ring of fire” event over 33 million years ago.

The mother of all unraveling trade secrets that today’s cement producers don’t want the public to know, besides the fairly recent re-discovered use of the naturally soluble volcanic plutonic sill material bundle, which cannot be patent protected by anyone other than Creator, is that the size of the aggregate sand and gravel bonding together is critical for strength and longevity.

When ground down to a common variety Portland cement “mortar” size, and added as a pump-able binder sized filler as salvaged chopped fiberglass or sawdust (no rough gravel or rock to create weak voids) the after-mixture known as AAC or CLC *FoamKrete*™ expands the output volume of ordinary dense concrete four to five times to construct a faster to build, better, smarter, stronger, cheaper house building material.

Without the addition of common variety gravel and unevenly sized rocks, the pure “alumina-silicon sand” aggregate binds together tighter. In ACC or CLC concrete construction 80% percent of micro hydrogen bubbles —adding to the highest known insulation ‘R’ values — *FoamKrete.com* lightweight tip-up bearing walls are stronger than old fashioned “2x4 stick-built” homes. For building apartments, the load-bearing walls capabilities without steel girders are considered acceptable by some local building codes up to four stories.

Much of the preliminary citations proved that what I trademarked *FoamKrete*™ for being a CLC pumpable Class A Four Hour at 3,000 Degrees Fire Resistant answer to Climate Change.

In a forest fire in Omak, Washington a hobby builder of a CLC concrete house did not evacuate. Instead, he videotaped out a window his neighborhood exploding, and how his home actually acted as a fire break to help save a neighbors house.

Add to all the affordable housing *FoamKrete*™ benefits add to the list for being “earthquake survivable”, soundproof, ‘bulletproof’, mold-proof, radon gas-free PH neutral Nepheline cement is the best as a closed envelope protection in a hurricane with a high tidal surge.

When a CCL foam home is pumped, or 3D printed as *FoamKrete*™, acting as a *FloatKrete*



with a “boat floor” will survive rivers overflowing their banks, as well as earthquakes, if not tied to the ground and allowed to float above such things as mudflows.

As a homeowners insurance in a time of stress over forest fires destroying whole towns is the real reason to get into Table Mountain Nepheline Syenite into proven production of developing an emergency “fireproof” stucco spray, as well as helping families rebuild upon the ashes of a continuing mortgage. Or, coming back to salvage by yourself what is left of an open to a leveraged wind vulnerable “dumb roofed” house from a yet-another hurricane tornado, without FEMA flood insurance or smiling bankers help.

So, in the 1000 days since the filing of this US FS 2008-5, I have spent too much of my time watching and cursing a TV showing some catastrophes which could have been mitigated by paying attention to the science of survival.

I also search for answers to why Al_2O_3/SiO_2 is NOT a common variety mineral, by adding newer scientific papers, not internal corporate-controlled thinking, available for quoting on the Internet without getting sued for copyright infringement.

The answer may have been hidden in, or behind, what an AAC or CLC consists of (or all sorts of other initials) in that for a long time “Nephelene slims” have been used to seal underground sewer piping leading from what is a pure white Nephelene “sanitary ware” toilet *is superplasticizer called a — Geopolymer.*

As explained in recent Russian White Papers, “Geopolymers – alternative binders to Portland cement”, and “Foam concrete technology”, as “Nowadays, the abundance of names describing these materials, including alkali-bounded-ceramics, soil silicate concretes, hydrodynamic fluids, and alkali-activated-cements, creates a lot of confusion”!

So let’s head to Wikipedia for an explanation:

“Geopolymers are inorganic, typically ceramic, alumino-silicate forming long-range, covalently bonded, non-crystalline (amorphous) networks. Obsidian (volcanic glass) fragments are a component of some geopolymer blends.

Commercially produced geopolymers may be used for fire-and heat-resistant coatings and adhesives, medicinal applications, high-temperature ceramics, new binders for fire-resistant fiber composites, toxic and radioactive waste encapsulation, and new types of cement for concrete. The properties and uses of geopolymers are being explored in many scientific and industrial disciplines: modern inorganic chemistry, physical chemistry, colloid chemistry, mineralogy, geology, and in other types of engineering process technologies.

The field of geopolymers is a part of polymer science, chemistry and technology that forms one of the major areas of materials science. Polymers are either organic material, i.e. carbon-based, or inorganic polymer, for example silicon-based.”

Further explanation of a nepheline based geopolymer as explained in a French Geopolymer Cement Review was that:

“BENEFITS OF GEOPOLYMER CONCRETE Geopolymer is better than normal concrete in many aspects such as compressive strength, exposure to aggressive environment, workability, and exposure to high temperature. Geopolymer concrete has several economic benefits over conventional Portland cement concrete. Geopolymer concrete is cost-effective against conventional Portland cement concrete which has similar performance. It acts as a low-carbon and lesser

energy consumption material and is a better alternative to traditional cement concrete and also reduces carbon dioxide CO2 emission and other environmental pollutions. Rock-based geopolymer achieves 59% of energy needs than conventional concrete. Carbon emissions are also lower in geopolymer where a reduction in 80% of carbon emission is achieved for rock-based geopolymer. Further, the recent research focuses on the low drying shrinkage, low creep, resistance of sulfate attack or acid attack, acid resistance, and fire resistance which may yield additional economic benefits while utilizing geopolymer concrete in infrastructure applications. The main benefits of geopolymer concrete over conventional concrete are 1) High compressive strength 2) High abrasion resistance 3) Rapid setting and quick hardening.”

An article in a recent international construction magazine put it in an easy to grasp:

“ADVANTAGES OF GEOPOLYMER CONCRETE:

It has high compressive strength.

It has high tensile strength.

Also has low creep.

Low drying shrinkage.

It has a resistance to heat and cold.

They are chemically resistant.

It is highly durable.”

My exposure to the Holy Grail thought of doing away with the energy-expensive manufacturing of a patent-protected Portland Cement altogether. And the idea that a formulated super polymer cement admixture which along with some other of my IndustrialMinerals.org. I have been following the reality need to be protected beyond my newly formed ECO-Mining-Milling Cooperative Association LLC —the chosen contractor operator of record on the FoamKrete™ ore— that also can supply secret superplasticizer polymers for the whole FoamKrete™ manufacturing process.

This start-up URL, for now, will be a nano flow-through R&D lab with a www.ECO-Foam-Concrete.com address. I just now discovered the new chemistry of super-strength sequencing that will bring to life such uses as the pumped concrete that China used to build bridges soaring high above their great river gorges.

I recently purchased the URL FloatCreek.com for my yacht building brother-in-law in Florida so we can get working on a twin hull project we have been bantering back-and-forth while sailing a shallow draft “English bottom” around the Florida keys know for waters that read “brown, brown, run aground; green, green, you might succeed; and blue, blue, go right through.”

Yeah just another of my “crazy ideas” that only take 1) Mindpower 2) Manpower 3) Money to make happen.

And, of course, when the USFS gets around to it— it would be nice to have an official reply to this Plan of Action for disturbing the surface, by going underground of what already is a quarry — setting just a short distance from a Georgia Pacific owned quarry, on private school section land, which has apparently been operating without any environmental restrictions.

B. Type of Operation: (lode, placer, mill, exploration, development, production, other)

My Forest Service Regulation 36 CFR 228 compliance for an underground lode mining and milling program goes well past the norm with a Minimalist Mining Plan of Action by contracting with ECO-Mining-Milling.com, now ECO-Mining-Milling Limited Cooperative Association LLC, to being the operator of record (provided they respect our agreed-upon maintaining standards) of a salable product of from the Table Mountain Nepheline Syenite lode mining claims.

The varied applications of nepheline syenite have put the commodity in a prime market position around the world. The Table Mountain nepheline syenite prospect is strategically located near the seaport of Newport, Oregon, and it has excellent access by ground and rail transportation.

Nepheline Syenite is an unusual mineral with unique varieties, and depending on the chemistry, also comes in different colors. Blue-Gray *FoamKrete*™ style Geopolymer Cement, activated by a trade secret liquid Geosilicate Reagent, is already being marketed as one worldwide answer to the effects of global climate change warming.

My plan is also based upon recognizing the importance in a “tree hugger state” that the US Department of Agriculture Forest Service’s mission. By managing renewable rain forests in Oregon as first-line in ECO defense of the US by scrubbing prevailing polluted winds out of Asia through the generation of oxygen from new growth tree farms.

The ECO aware USFS Pacific Northwest Region Six Mission statement, besides good stewardship of our very much needed National Forests’ through local Ranger District Management, includes watershed protection supporting a sustainable natural wealth of salmon; world-class recreational trails potential; the grazing, or harvesting, of an abundance of valuable undergrowth; and of course managing by CFR regulations, “smart mining”.

Mining is the only one on the USFS mission list that isn’t precisely ECO renewable. That is unless one considers that the plans for the hard-rock of Nepheline Syenite, is to be “repositioned” as affordable rock-solid housing benefiting the environment by fighting climate change.

By reducing a need for a traditional Portland Cement, whose production happens to be the second-largest contributor to greenhouse gases, and by using a tilt-up outside wall form built with heavy support timbers, without unneeded re-bar reinforcement (if local building codes allow) from a troubled steel industry, also fighting to meet coming mandated clean air standards.

It also follows that the uniqueness of the Table Mountain deposit demands a re-thinking of how the end product *FoamKrete*™ will be brought to market.

This is why to me, and individual “prudent man plan” as defined by the US Mining Law of 1872, the only provable economically viable operation is to declare that the Lode Claim operation is directed underground, connecting the already existing “grandfathered” in quarries. Why?:

- 1) The uniformity of assaying the 300 foot exposed sill surface in a pluton batholithic pipe, which actually could go to great depth, precludes any idea of continuing with an open pit. The angle of repose exploiting a 640-acre (one mile across, plus, the surface visible deposit would lead to an impossible, and very ugly deep glory hole which would consume the whole, iconic, mountain, which could only be reclaimed by a yet-another-crater lake, or by making Newport,

Oregon, the worlds largest sanitary landfill.

2) Another uniqueness in the mining procedure disturbing the surface is that there is no need for a tailing dump. What comes out of an underground honeycombed room and pillar network, similar to the mining of the Comstock Lode under Virginia City, Nevada— is all product!

There will be no waste because Nepheline Syenite is also valuable in a collected dust form. Where fan ventilated adits, drifts, shafts, raises, will most likely become an essential part of a non-timbered (no square sets) rock bolt and sprayed “shotcrete” underground safety system.

3) And, as the haul weights of “ore” off of the mountain would not change with crushing and milling, there is no point of operating anything on-site other than a tertiary jaw crusher to a truck loadable size. And that may well be best accomplished underground.

4) Also as the claims have not been core drilled to determine the unseen depth of the pluton pipe, it would be a folly equal to the frontier killing off buffalo for the tongue, hump, and hide for a “hedge fund platform pump and dump exploitation” to not consider the ore body could reach a sea-level depth at 2,751 feet. And, the basis of any successful mining operation is to use gravity whenever possible.

Where using “out of sight,” 2,400 feet of gravity power could become an important factor when competing with Norway’s North Cape underground operation which has been contributing to a growing European-Canadian “cartel” output of Nepheline Syenite, allegedly imported unfairly into the US market for dumping purposes.

5) This is why I am asking for approval in lawyer style cautious baby beware steps that will prove several valid points to support the start-up of dedicated mining of 250 million tons (out of a proven 500 million) for what will be wholesale marketed by the measured bag after the final milling to a nano soluble size to the affordable housing industry as FoamKrete.com™.

And of course, as conditions change, it may become necessary to come back for a logical extension application that also will meet the wisdom of doing this project transparently RIGHT—which is to mine this Oregon nano mineral material for sale for consumer sale that returns a percentage royalty per product ton, in indexed USD values.

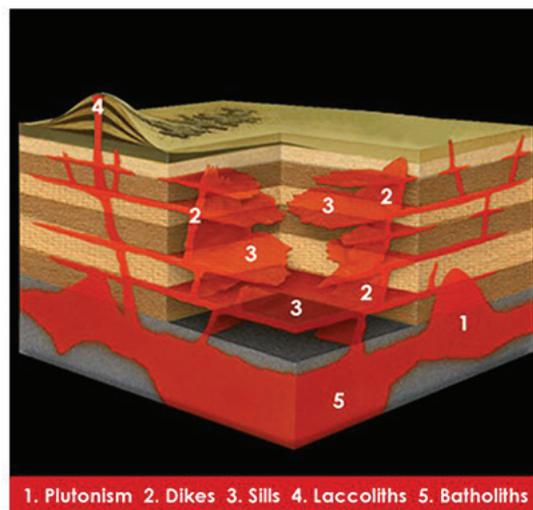
The “Polymath” thinking here is that instead of favoring Wall Street mining E-hedge fund investors flip trading electric credit default swap leveraged stock certificates whose day-to-day value is instantly reported on the HFT wire, this really should be an Oregon, USA, opportunity.

6) The contractor hired by the end-user distributor of FoamKrete™ will be responsible for the hiring of the separately owned and controlled ECO-Mining - Milling Contractor working on a

How Do Minerals Form?

Plutons

As magma moves up it may cool and solidify forming a pluton. Please note that figure 4 at the highest point on the mountain is the Lode Claims Apex Access to underground deposits.



cost-plus 10% basis they should be considered as (under a strict checks-and-balance system) the authorized operators of the claims.

As many of the Project Description questions fall into their purview, is important these answers come directly from a prudent ECO- Mining-Milling Management system.

7) I am answering as an individual “claim holder as, defined by the US Mining Law of 1872. To me the only possible economically viable operation is directed underground, connecting already existing “grandfathered” in quarries.

8) The uniformity of assaying the 300 foot exposed sill surface in a pluton batholithic pipe system, which actually could go to great depth, precludes any idea of continuing with an open pit. The angle of repose exploiting a 640-acre (one mile across, the surface visible deposit would lead to an impossible, and very ugly deep glory hole which would consume the whole, iconic, mountain, which could only be reclaimed by a yet-another-crater lake, or by making Newport, Oregon, the worlds largest sanitary landfill.

9) Concerning “big” minings addiction to corporate bean counter’s open pits cost projections by using massive equipment in “my Oregon” backyard? My answer is go dig a big hole in states that own the majority of their public lands, not managed by the BLM or the USFS.

C. Is this a new, or continuing, operation: If continuing a previous operation plan and (replaces/modifies/supplements) a previous plan of operations. (check one).

1) I have to check all three ‘boxes’ as this 640-acre, one mile across the property, which has grown to be a large underground proposition.

In the State of Oregon mentioning anything else than a leftist “Green Standard” stewardship parade will run head-on into an equally loud far-right “Patriots” protest. It is far better for Barry Murray (Mineral Rights) and the local USDA Ranger Station (surface rights) partnership to maintain politically and productively neutral in a middle-of-the-road PR position. Sometimes a dangerous position in that one can be hit by traffic coming both ways.

D. Proposed start-up date (mm/dd/yy) of operation:

1) This too has chicken and egg ambiguities, and Catch 22 financial commitments. As I am an individual ‘prudent man’ prospector that needs outside financial backing to succeed in delivering an answer to affordable housing, I really need an acceptance of this Plan of Action to go ahead in what really is a small-business start-up. Once the acceptable reclamation requirements have been made make that acceptance date (??/??/year) is known, so that ‘drill day plus 1’ operations will happen, is decided by the USDA Waldport Ranger —as it should be done without commercial bias.

E. Expected total duration of this operation:

1) Well-now, as I am 79-years of age —*make that 82*— looking forward to trust funding proj-

ects as a Pacific Crest Trail Foundation (see BarryMurray.com) Rescue Ranch. And, I hope Miz Bobby and my Worthy Cause Media 501C3 will have an endowment funding platform for other USFS trail ideas. I see a family tithing commitment continuing on for a long time by my heirs and assigns.

F. If seasonal, expected date (mm/dd/yy) of annual reclamation/stabilization close out:

1) Other than suspension of surface operations for fire danger, or snowfall making roads difficult or dangerous, working in a constant temperature underground has no season.

G Expected date (mm/dd/yy) for completion of all required reclamation:

1) Since this project may end up with different levels no longer needed except for a controlled USDA mushroom or blue cheese production, it is suggested that the original access quarries might be better reclaimed as a fire fighting reserve reservoir. It should be pointed out that as there will be no tailing dump off salable material left behind it would be a comparatively easy task to simply implode a portal to come very close to a return to a natural-looking scene.

II. PRINCIPALS

A. Name, address and phone number of operator:

1) Barry G. Murray, formerly of 3703 E. Alsea Hwy (or POB 678) Waldport, OR 97394, that needed to escape the harassment of the Covid-19 “super-patriots” driving around mask-less in super-pickups with a tattered Qanon “bullshit” flag flying. When I had tried to stop the blatant theft of my stockpile rock on the mountain by such a political protester, I was told they had legal permission to do what they wanted. And, I was warned (not the first time on my claims) I had better watch how and what I was saying. Or else. So, being a prudent elderly man, not wanting to be a hate crime victim, I moved the corporate formation of my wholly owned, at the moment, **ECO-Mining-Milling Limited Cooperative Association LLC** reachable at POB 1198, Castle Rock, WA 08611. The 503-753-5868 cell number is still the same, or 541-992-6313.

2) At 79-years (now 82) claim owner Barry G. Murray, will also be protecting the value of his mining claims estate by establishing an www.ECO-Minerals-Stockpile.com, as a closely held trust corporation based upon proven reserve tonnage.

B. Name, address, and phone number of authorized field representative (if other than the operator) and attach authorization to act on behalf of operator:

1) Other than the claim holder proposing that AKA www.ECO-Mining-Milling.com a Limited Liability Corporation being formed by trading nepheline tonnage-in-place for needed machinery and joint venture operators.

The whole company has pledged that the only ROI is to be the processing and sale of product by the ton, instead of profiting in speculative stock manipulations, or whatever the “financial engine” identified by initials that only seem to last past a pump-and-dump. As the aging claim holder, Barry Murray is the principal at the moment, and his LLC will be the operator of the claim, everything promised in the Plan of Action, will continue to respect the Mining Law of 1872 mineral partnership agreement with both the Bureau of Land Management and the US Forest Service.

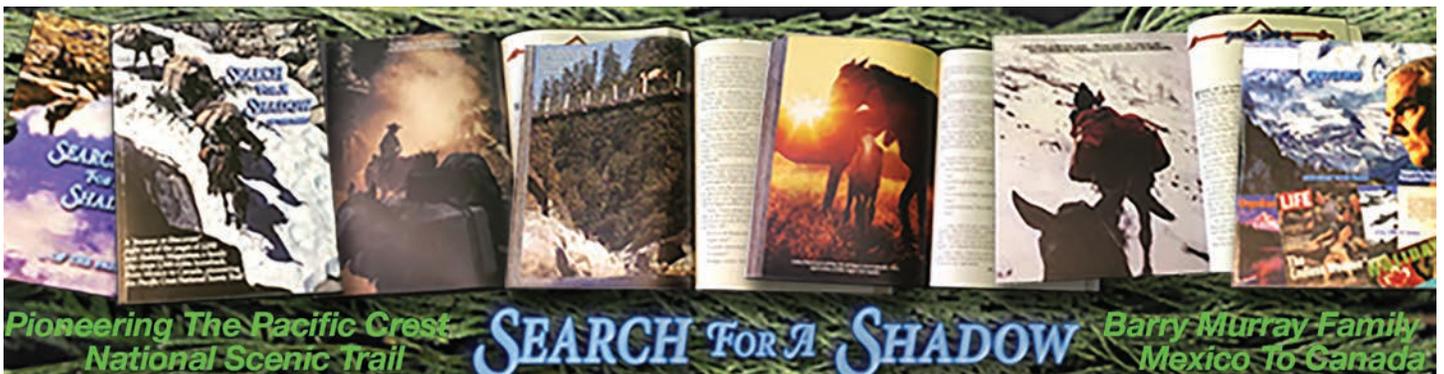
FoamKrete™ dealer/distributors as owners of in-place tonnage that have chosen — a requirement to avoid becoming a security managed by the SEC— to have ECO-Mining-Milling Limited Cooperative Association process their individual investment ore on a cost-plus percentage of output delivered to a pass along www.FoamKrete.com who will be passing along product at a wholesale/retail price to the public with an edge of a location-location-location advantage in the far West, in a trade war with a foreign cartel that hides their Nepheline Syenite building product behind “trade secret” numbers of what really is the chemistry of *FoamKrete™* that makes it expand to meet affordable housing needs.

C. Name, address and phone number of owners of the claims (if different than the operator):

1) At this time the title of the claims is held solely by single signer Barry Murray, 503-753-5868, or a mobile 541-992-6313 which may be texted. It is anticipated that the undivided block of claims will not be separated or hypothecation, by any other value units as in-place tonnage. Barry Murray’s ownership will be placed into an ECO-Minerals-Stockpile Trust to protect individual investors buying a ton of mineral, through a built-in lien upon the title.

D. Name, address and phone number of any lessees, assigns, agents, etc. different than the operator):

1) My daughter heir-apparent Bernadette Murray being in control of the Mac&Murray Family Trust. AKA “Scout” — validated by helping pioneer the PCNST Trail. My LIFE and Holiday Magazine text and photo credits, plus a USFS brochure, went into a 475 page coffee table book.



III PROPERTY OR AREA Name of Claim, legal description

Table Mountain Claims / Lincoln County Book 320, Page 463-494

Mining Claim	ORMC #	Section	Township	Range
Nepheline 1	ORMC 151343	31 & 6	12 & 13 S	Range 9 W WM
Nepheline 2	ORMC 151344	31 & 6	12 & 13 S	Range 9 W WM
Nepheline 3	ORMC 151345	31 & 6	12 & 13 S	Range 9 W WM
Nepheline 4	ORMC 151346	31 & 6	12 & 13 S	Range 9 W WM
Nepheline 5	ORMC 151347	6	13 S	Range 9 W WM
Nepheline 6	ORMC 151348	6	13 S	Range 9 W WM
Nepheline 7	ORMC 151349	6	13 S	Range 9 W WM
Nepheline 8	ORMC 151350	6	13 S	Range 10 W WM
Nepheline 9	ORMC 151351	6	13 S	Range 10 W WM
Nepheline 10	ORMC 151352	6	13 S	Range 10 W WM
Nepheline 11	ORMC 151353	6	13 S	Range 10 W WM
Nepheline 12	ORMC 151354	6	13 S	Range 10 W WM
Nepheline 13	ORMC 151355	6	13 S	Range 10 W WM
Nepheline 14	ORMC 151356	6	13 S	Range 9 W WM
Nepheline 15	ORMC 151357	6	13 S	Range 9 W WM
Nepheline 16	ORMC 151358	6	13 S	Range 10 W WM
Nepheline 17	ORMC 151359	6	13 S	Range 10 W WM
Nepheline 18	ORMC 151360	6	13 S	Range 10 W WM
Nepheline 19	ORMC 151361	6	13 S	Range 10 W WM
Nepheline 20	ORMC 151362	6	13 S	Range 10 W WM
Nepheline 21	ORMC 151363	6	13 S	Range 10 W WM
Nepheline 22	ORMC 151364	6	13 S	Range 10 W WM
Nepheline 23	ORMC 151365	6	13 S	Range 10 W WM
Nepheline 24	ORMC 151366	6	13 S	Range 10 W WM
Nepheline 25	ORMC 151367	6	13 S	Range 10 W WM
Nepheline 26	ORMC 151368	6	13 S	Range 10 W WM
Nepheline 27	ORMC 151369	6	13 S	Range 10 W WM
Nepheline 28	ORMC 151370	6	13 S	Range 10 W WM
Nepheline 29	ORMC 151371	6	13 S	Range 10 W WM
Nepheline 30	ORMC 151372	6	13 S	Range 10 W WM
Nepheline 31	ORMC 151373	6	13 S	Range 10 W WM
Nepheline 32	ORMC 151374	6	13 S	Range 10 W WM

**Nepheline Lode Mining Claims 1-32
 Lincoln County, Oregon, USA
 N44.46901 W123.84372
 ORMC 151343 through ORMC 15374**

**Section 31
 Township 12 s
 Range 9w, WM**

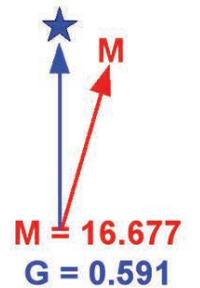
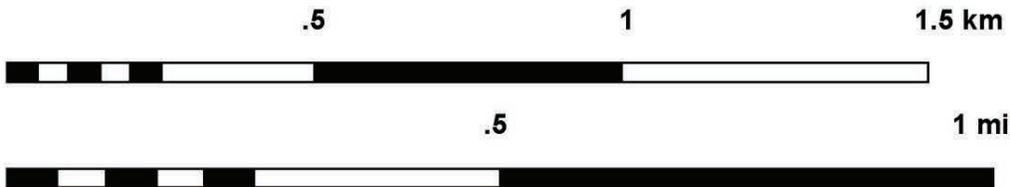
Nepheline 1	Nepheline 2	Nepheline 3	Nepheline 4
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Nepheline 14	Nepheline 13	Nepheline 12	Nepheline 11	Nepheline 10	Nepheline 9	Nepheline 8	Nepheline 7	Nepheline 6	Nepheline 5
Nepheline 24	Nepheline 23	Nepheline 22	Nepheline 21	Nepheline 20	Nepheline 19	Nepheline 18	Nepheline 17	Nepheline 16	Nepheline 15
Nepheline 32	Nepheline 31	Nepheline 30	Nepheline 29	Nepheline 28	Nepheline 27	Nepheline 26	Nepheline 25		

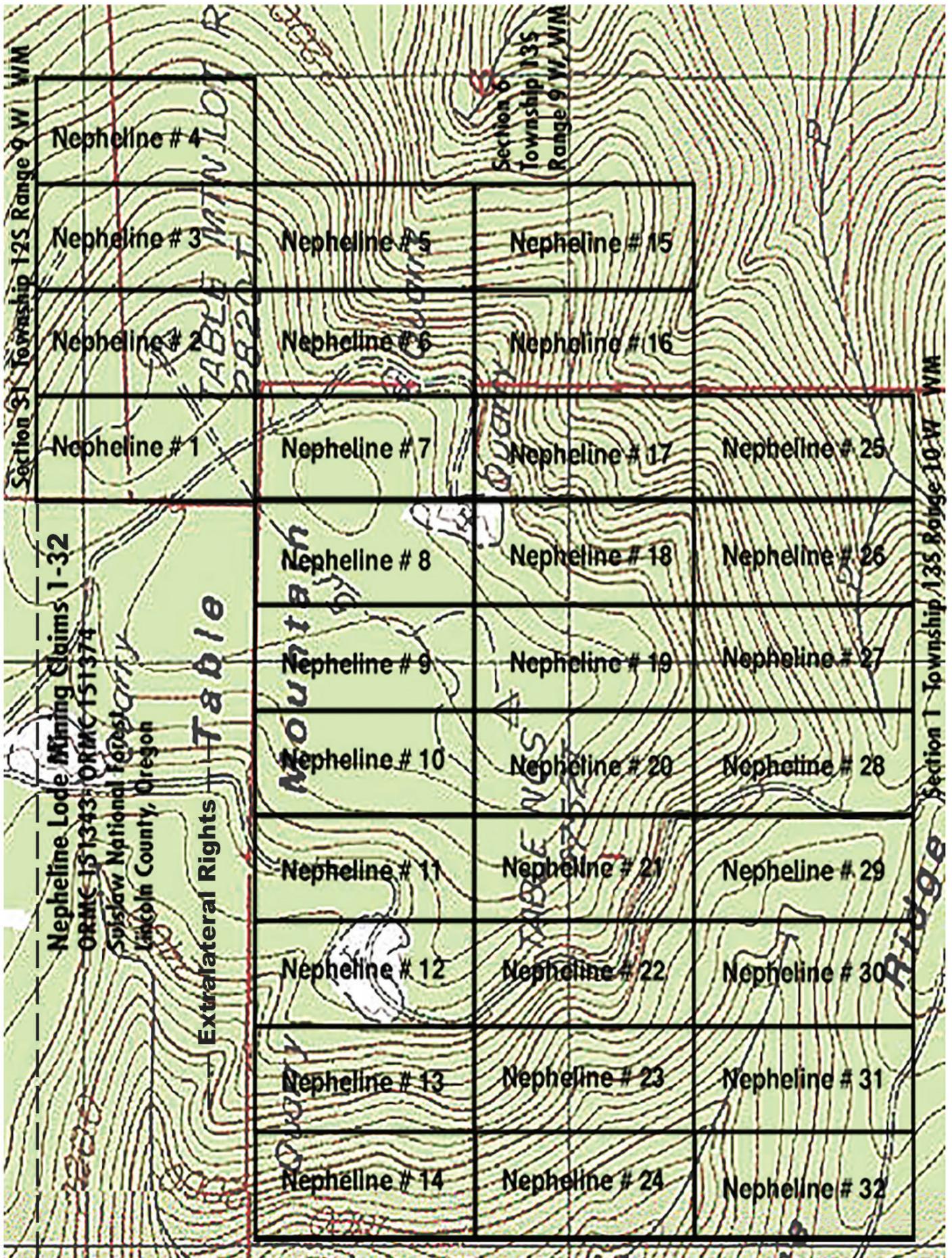
**Section 6
 Township 13 s
 Range 9 w, WM**

MINING CLAIMS
Portal Sites ▲

**Section 6
 Township 13 s
 Range 10 w, WM**



NEPHELINE SYENITE PROSPECT at Table Mountain, Oregon



NO PART OF ANY STEVENS-NESS FORM MAY BE REPRODUCED IN ANY FORM OR BY ANY ELECTRONIC OR MECHANICAL MEANS.



Owner's name and current mailing address:
BARRY MURRAY
POB 678
WALDPORT, OR 97394

After recording, return to (Name, Address, Zip):
BARRY MURRAY
POB 678
WALDPORT, OR 97394

Lincoln County, Oregon
 09/22/2017 03:54:25 PM
 DOC#MCL
 55.09 \$11.90 \$20.00 \$50.00 \$7.00 - Total = \$53.00

2017-09246



I, Dana W. Jenkins, County Clerk, do hereby certify that the within instrument was recorded in the Lincoln County Book of Records on the above date and time without my hand and seal of said office affixed.



Dana W. Jenkins, Lincoln County Clerk

SPACE RESERVED FOR RECORDER'S USE

By _____, Deputy.

MINING CLAIM AFFIDAVIT

(PAYMENT OF FEDERAL FEES OR PERFORMANCE OF ANNUAL ASSESSMENT WORK)

STATE OF OREGON, County of LINCOLN) ss.
 I, BARRY MURRAY

being first duly sworn, declare in regard to the following unpatented mining claim _____:

DESCRIBED MORE FULLY IN:

COUNTY OF LINCOLN
 MINING AND GENERAL RECORDS
 BOOK AND PAGE OR INSTRUMENT
 OR OTHER RECORDING NO.

NAME OF CLAIM	BLM RECORDS FOR LOCATION SERIAL NO.	BOOK AND PAGE OR INSTRUMENT OR OTHER RECORDING NO.
<u>NEPHOLINE #1 THROUGH 32</u>	<u>ORMC 151343-374</u>	<u>BOOK 320, PAGE 463-494</u>

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



Mining Claims Payment Portal



BLM

PAYMENT RESULT

[Home](#) → [Claims Search](#)

The payment processing authority has indicated successful acceptance of your payment information

Agency Tracking ID : 1502903071
 Transaction Date : 2017-08-16
 Transaction Amount : \$4950.00
 Number of claim(s) : 32
 Lead Serial Number : ORMC151370
 Cost Center State : OR

You might want to print this page for your records

[Click here to start new search or make another payment](#)

**DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MINING CLAIMS**

MC Maintenance Fees Paid Through the BLM Pay Portal

CBS Receipt: 3941194

Printed For Lead File # ORMC151343

Agency Tracking ID: 1502903071

Assessment Year: 2018

Number of BLM Serial Nr: 32

Paid On: 08/16/2017

Total Amount Paid: \$4,960.00

Claim Name	BLM Serial No	Lead File No	Amount Paid
NEPHELINE #1	ORMC151343	ORMC151343	\$155.00
NEPHELINE #2	ORMC151344	ORMC151343	\$155.00
NEPHELINE #3	ORMC151345	ORMC151343	\$155.00
NEPHELINE #4	ORMC151346	ORMC151343	\$155.00
NEPHELINE #5	ORMC151347	ORMC151343	\$155.00
NEPHELINE #6	ORMC151348	ORMC151343	\$155.00
NEPHELINE #7	ORMC151349	ORMC151343	\$155.00
NEPHELINE #8	ORMC151350	ORMC151343	\$155.00
NEPHELINE #9	ORMC151351	ORMC151343	\$155.00
NEPHELINE #10	ORMC151352	ORMC151343	\$155.00
NEPHELINE #11	ORMC151353	ORMC151343	\$155.00
NEPHELINE #12	ORMC151354	ORMC151343	\$155.00
NEPHELINE #13	ORMC151355	ORMC151343	\$155.00
NEPHELINE #14	ORMC151356	ORMC151343	\$155.00
NEPHELINE #15	ORMC151357	ORMC151343	\$155.00
NEPHELINE #16	ORMC151358	ORMC151343	\$155.00
NEPHELINE #17	ORMC151359	ORMC151343	\$155.00
NEPHELINE #18	ORMC151360	ORMC151343	\$155.00
NEPHELINE #19	ORMC151361	ORMC151343	\$155.00
NEPHELINE #20	ORMC151362	ORMC151343	\$155.00
NEPHELINE #21	ORMC151363	ORMC151343	\$155.00
NEPHELINE #22	ORMC151364	ORMC151343	\$155.00
NEPHELINE #23	ORMC151365	ORMC151343	\$155.00
NEPHELINE #24	ORMC151366	ORMC151343	\$155.00
NEPHELINE #25	ORMC151367	ORMC151343	\$155.00
NEPHELINE #26	ORMC151368	ORMC151343	\$155.00
NEPHELINE #27	ORMC151369	ORMC151343	\$155.00
NEPHELINE #28	ORMC151370	ORMC151343	\$155.00
NEPHELINE #29	ORMC151371	ORMC151343	\$155.00
NEPHELINE #30	ORMC151372	ORMC151343	\$155.00
NEPHELINE #31	ORMC151373	ORMC151343	\$155.00
NEPHELINE #32	ORMC151374	ORMC151343	\$155.00

DUPLICATE COPY RETURNED

for your records

BLM records noted

NO WARRANTY IS MADE BY BLM FOR USE OF THE DATA FOR PURPOSES NOT INTENDED BY BLM



Bureau of Land Management

Payment Portal - Mining Claims

PayPortal > Search > Review > Result

RESULT PAGE

Agency Tracking Id : 1594147679

Detail : SUCCESSFUL SUBMISSION OF A TCS ONLINE SALE TRANSACTION

MC Tracking Id : ORMC151343

Payment Status : SUCCESS

Amount Paid : \$5,280.00

[Click here to start new search or make another payment](#)

[Privacy Policy](#) | [FOIA](#) | [Contact Us](#) | [Accessibility](#) | [Terms & Conditions](#) | [Help](#)

U.S Department of the Interior Bureau of Land Management

Total Claims: 32

Total Fees: \$5,280.00

Serial Number	Claim Name	Claimant Name	Amount
ORMC151343	NEPHELINE #1	MURRAY BARRY G	165.00
ORMC151344	NEPHELINE #2	MURRAY BARRY G	165.00
ORMC151345	NEPHELINE #3	MURRAY BARRY G	165.00
ORMC151346	NEPHELINE #4	MURRAY BARRY G	165.00
ORMC151347	NEPHELINE #5	MURRAY BARRY G	165.00
ORMC151348	NEPHELINE #6	MURRAY BARRY G	165.00
ORMC151349	NEPHELINE #7	MURRAY BARRY G	165.00
ORMC151350	NEPHELINE #8	MURRAY BARRY G	165.00
ORMC151351	NEPHELINE #9	MURRAY BARRY G	165.00
ORMC151352	NEPHELINE #10	MURRAY BARRY G	165.00
ORMC151353	NEPHELINE #11	MURRAY BARRY G	165.00
ORMC151354	NEPHELINE #12	MURRAY BARRY G	165.00
ORMC151355	NEPHELINE #13	MURRAY BARRY G	165.00
ORMC151356	NEPHELINE #14	MURRAY BARRY G	165.00
ORMC151357	NEPHELINE #15	MURRAY BARRY G	165.00
ORMC151358	NEPHELINE #16	MURRAY BARRY G	165.00
ORMC151359	NEPHELINE #17	MURRAY BARRY G	165.00
ORMC151360	NEPHELINE #18	MURRAY BARRY G	165.00
ORMC151361	NEPHELINE #19	MURRAY BARRY G	165.00
ORMC151362	NEPHELINE #20	MURRAY BARRY G	165.00
ORMC151363	NEPHELINE #21	MURRAY BARRY G	165.00
ORMC151364	NEPHELINE #22	MURRAY BARRY G	165.00
ORMC151365	NEPHELINE #23	MURRAY BARRY G	165.00
ORMC151366	NEPHELINE #24	MURRAY BARRY G	165.00
ORMC151367	NEPHELINE #25	MURRAY BARRY G	165.00
ORMC151368	NEPHELINE #26	MURRAY BARRY G	165.00
ORMC151369	NEPHELINE #27	MURRAY BARRY G	165.00
ORMC151370	NEPHELINE #28	MURRAY BARRY G	165.00
ORMC151371	NEPHELINE #29	MURRAY BARRY G	165.00
ORMC151372	NEPHELINE #30	MURRAY BARRY G	165.00
ORMC151373	NEPHELINE #31	MURRAY BARRY G	165.00

EC

NO PART OF ANY STEVENS-NESS FORM MAY BE REPRODUCED IN ANY FORM OR BY ANY ELECTRONIC OR MECHANICAL MEANS.



Owner's name and current mailing address:

BARRY MURRAY

After recording, return to (Name, Address, Zip):

BARRY MURRAY
POB 678
WALDPORT, OR 97137

Lincoln County, Oregon
09/14/2020 03:02:12 PM
DOC-MICL
\$5.00 \$11.00 \$60.00 \$10.00 \$7.00 - Total = \$93.00

2020-09408

Cnt=1 Pgs=1 Stn=20



0018694320200094080010019

SPACE RESERVED FOR RECORDER'S USE

I, Dana W. Jenkins, County Clerk, do hereby certify that the within instrument was recorded in the Lincoln County Book of Records on the above date and time. WITNESS my hand and seal of said office affixed.



Dana W. Jenkins, Lincoln County Clerk

NAME TITLE

By _____, Deputy.

MINING CLAIM AFFIDAVIT

(PAYMENT OF FEDERAL FEES OR PERFORMANCE OF ANNUAL ASSESSMENT WORK)

STATE OF OREGON, County of LINCOLN ss.

I, BARRY GENE MURRAY, being first duly sworn, declare in regard to the following unpatented mining claim s.:

DESCRIBED MORE FULLY IN:

NAME OF CLAIM: NIEPHELLINE #1 THROUGH #32
BLM RECORDS FOR LOCATION SERIAL NO.: ORMC 151343 - 151374
COUNTY OF: LINCOLN
MINING AND MINERAL RECORDS BOOK AND PAGE OR INSTRUMENT OR OTHER RECORDING NO.: BOOK 320; PAGE 463-494

maintenance fee requirements have been met:

The federal fee requirements have been met by the claim owner or agent of the owner and the claim owner or agent of the owner intends to hold the above-named claim(s) in good standing for the applicable assessment year.

The following annual labor has been performed or improvements have been made for the above-named claim.:

Number of days labor performed: 41 Value of Improvements: \$6,000

Character and location of improvements: TABLE MOUNTAIN AND WALDPORT

BULK SAMPLING / MINE AND MILLING TESTING / FIELD AND LAB TESTS

Dates of performing labor and making improvements:

SEPTEMBER 2019 (CONTINUING ON DOITHOLE REPAIRMENT TESTING THAT HAS BEEN OBLITERATED BY THE SAME VANDALS WHO HAVE BEEN STEALING ROCK FROM OUR STOCK PILE.

Performed at request of and for the benefit of: BARRY MURRAY AND FARMWIFE,

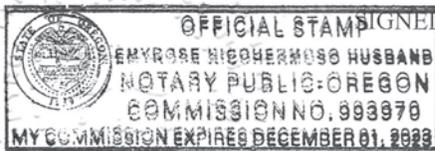
BARRY MURRAY, RYAN BEVENS, ROBERTA DICKERSON,

Performed by: BARRY MURRAY, RYAN BEVENS, ROBERTA DICKERSON,

HAROLD BENJAMIN, JERMIAN JAKE, ASHEY JAKE.

Amount paid and by whom paid (if work done by person other than owner):

(2) If federal qualifications for maintenance fee waiver have been met including filing certified statement of maintenance fee waiver.



BARRY GENE MURRAY

Signed and sworn to before me on September 14, 2020

EMYROSE NICOVERHUSO HUSBANT

Notary Public for Oregon

My commission expires 12-01-2023

Oregon law (ORS 517.210) requires that proof of the performance of labor or making of improvements or making federal fee payments must be made by affidavit filed in the mining records of the county in which the mining claim is situated, within 30 days after the performance of labor or making of improvements or making federal fee payments. IMPORTANT NOTICE: You should obtain Bureau of Land Management (BLM) regulations from your local BLM office to determine any applicable requirements for a mining claim, including payment of annual maintenance fees, maintenance fee waiver qualifications, payment of service charges, and recordation of evidence of annual assessment work and notices of intention to hold a mining claim. Additional regulations of the BLM, the Forest Service and the State of Oregon may apply to the conducting of mining operations in Oregon.

IV. DESCRIPTION OF THE OPERATION

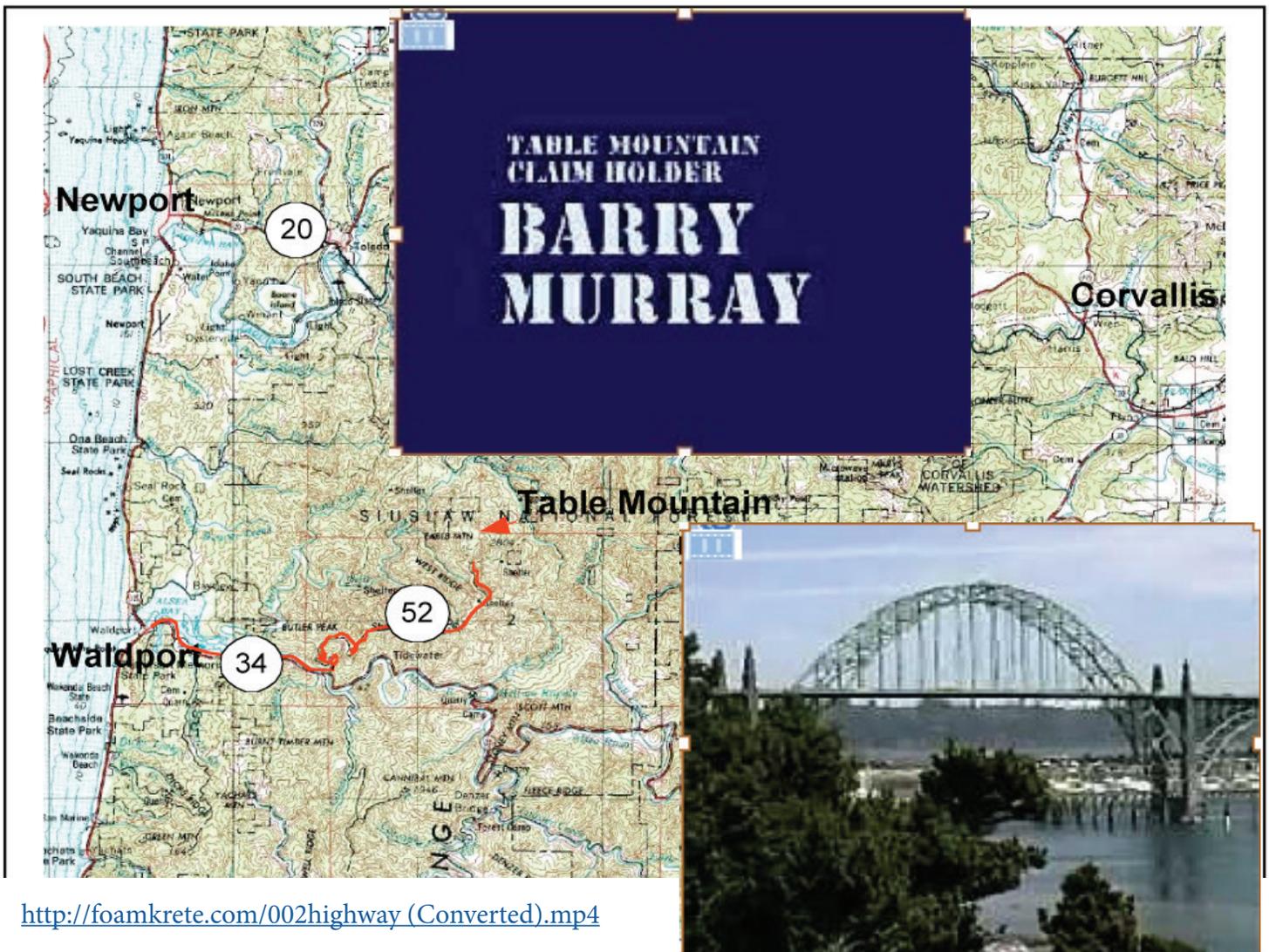
A. Access. Show on a map (USGS quadrangle map or a National Forest map, for example) the claim boundaries, if applicable, and all access needs such as roads and trails, on and off the claim. Specify which Forest Service roads will be used, where maintenance or reconstruction is proposed, and where new construction is necessary.

1) This project will be asking for a commercial use permit on USFS 52, designated further by signposting leading north off of State Highway 34, as the Tidewater-Toledo Road.

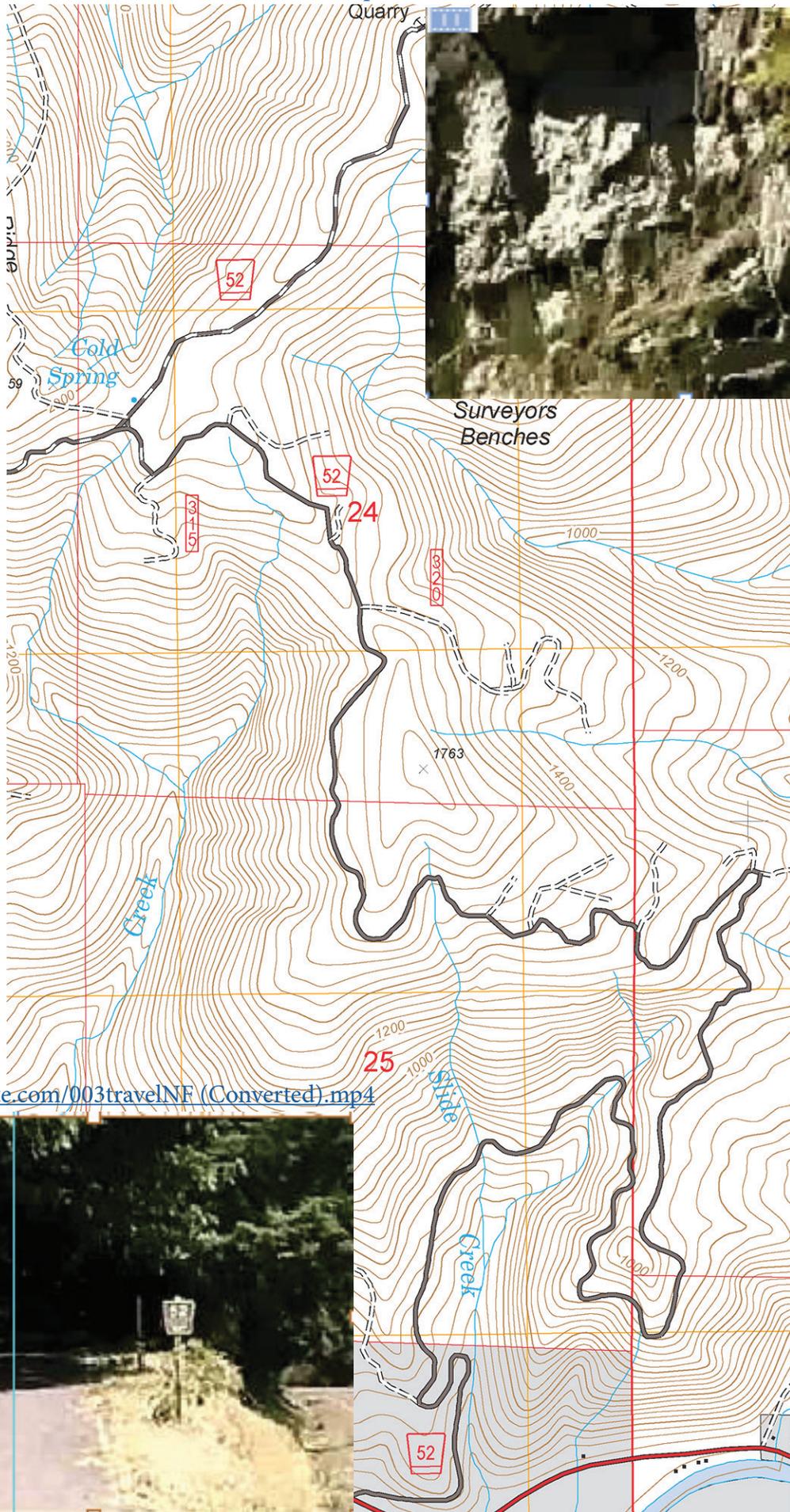
2) And ECO-Mining-Milling, as shown in themining pla, following, will also need to access the USFS 52 spur 210, the traditional road the East Quarry, and now leading to the microwave tower, the State of Oregon sheds, and beyond (with a rehab brushing and blading cleaning) to service the new east portal site. If this continues to be blocked to us by Weyerhaeuser Timberlands (already protecting over 11 million acres in the US), I may need surface disturbance permission to reconstruct USFS 52 spur 212 to reconnect the two grandfathered-in quarry sites.

Click Video 1 below to start, and 2 to travel across theNewport Bridge...▶

[http://foamkrete.com/001talk \(Converted\).mp4](http://foamkrete.com/001talk (Converted).mp4)



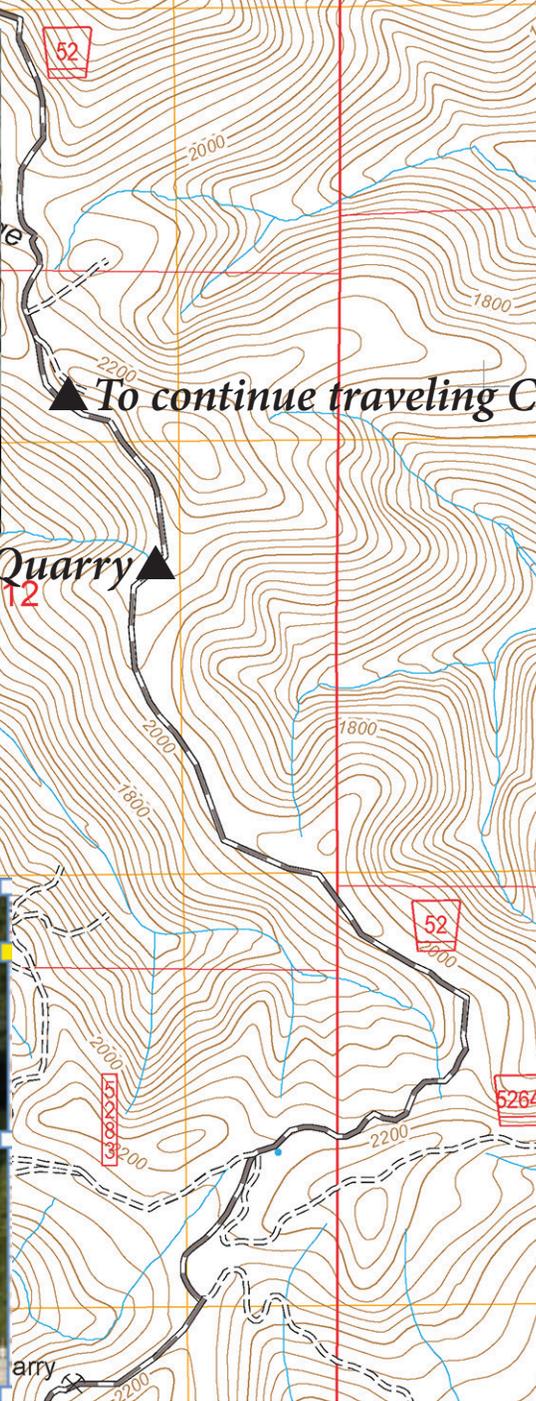
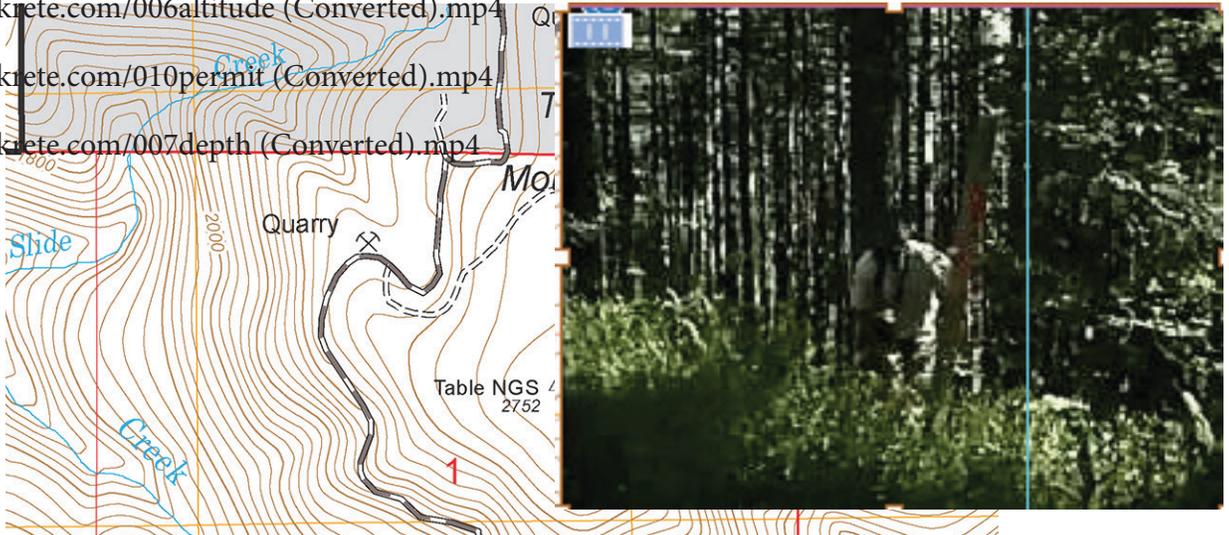
[http://foamkrete.com/002highway \(Converted\).mp4](http://foamkrete.com/002highway (Converted).mp4)



[https://foamknete.com/006altitude \(Converted\).mp4](https://foamknete.com/006altitude (Converted).mp4)

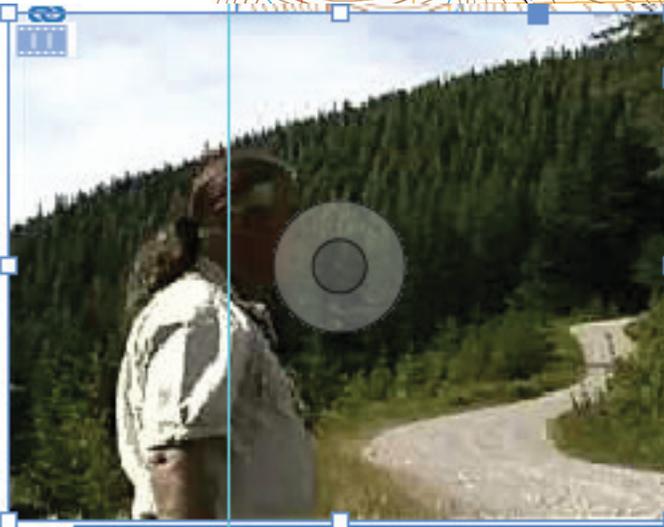
[https://foamknete.com/010permit \(Converted\).mp4](https://foamknete.com/010permit (Converted).mp4)

[https://foamknete.com/007depth \(Converted\).mp4](https://foamknete.com/007depth (Converted).mp4)



To continue traveling Click Video 6

Click Video 5 to arrive at the West Quarry



Click Video 4 to start traveling...

[https://foamkrete.com/009outcrops \(Converted\).mp4](https://foamkrete.com/009outcrops (Converted).mp4)

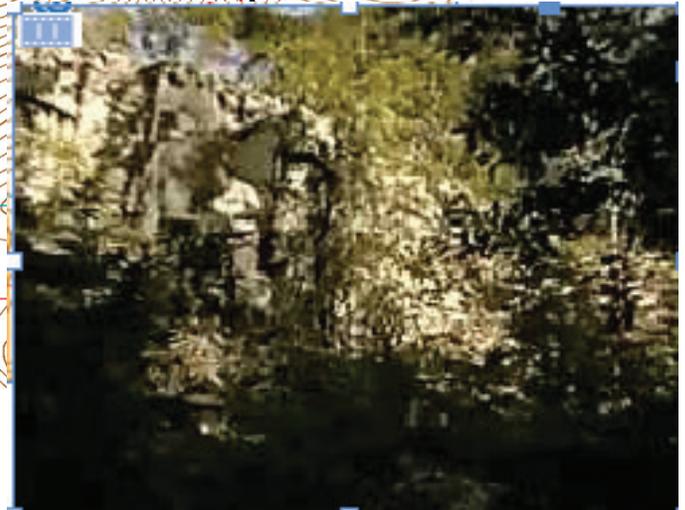
[https://foamkrete.com/005across%20\(Converted\).mp4](https://foamkrete.com/005across%20(Converted).mp4)



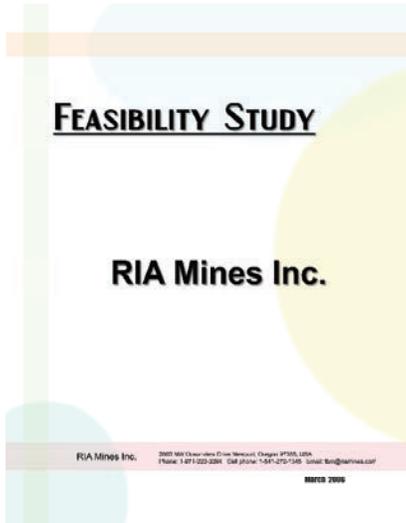
Click Video 7 to arrive at West Quarry...



...Click Video 8 to arrive East Quarry via 52 spur 210, or 212



<https://foamkrete.com/RIAfeasability.pdf>



3) The videos shown above were supposed to support of a previous “Plan of Action?” by RIA Mines Inc., based solely on their option to purchase the claims upon production. Their high priced lawyers and accountants did put together a Feasibility Study worth reading, but apparently did not want the claim holder to be involved in control of their corporation and unproven spin-off ventures. So they stiffed me by not making any more monthly payments after the RIA bootstrap plan of starting with 3M grade roofing granuals was not approved. Finally, I was forced to call my contract “null and void” for RIA bidding on a highway contract to supply common variety gravel in violation of USFS CFRs.

4) Access and Exit, continued.

At this time going beyond the weight and size of logging trucks, the road was built for will depend upon adopting creative methods and scheduling traffic on a single lane road with few turnoffs. Perhaps with one-way hours signaling that a truck convoy will be following.

When production begins to exceed the safe capacity of using Forest Service 52 to a depleted rock quarry area in Waldport, or a facility on the native Siletz-owned rail, barge, and trucking center at Toledo.

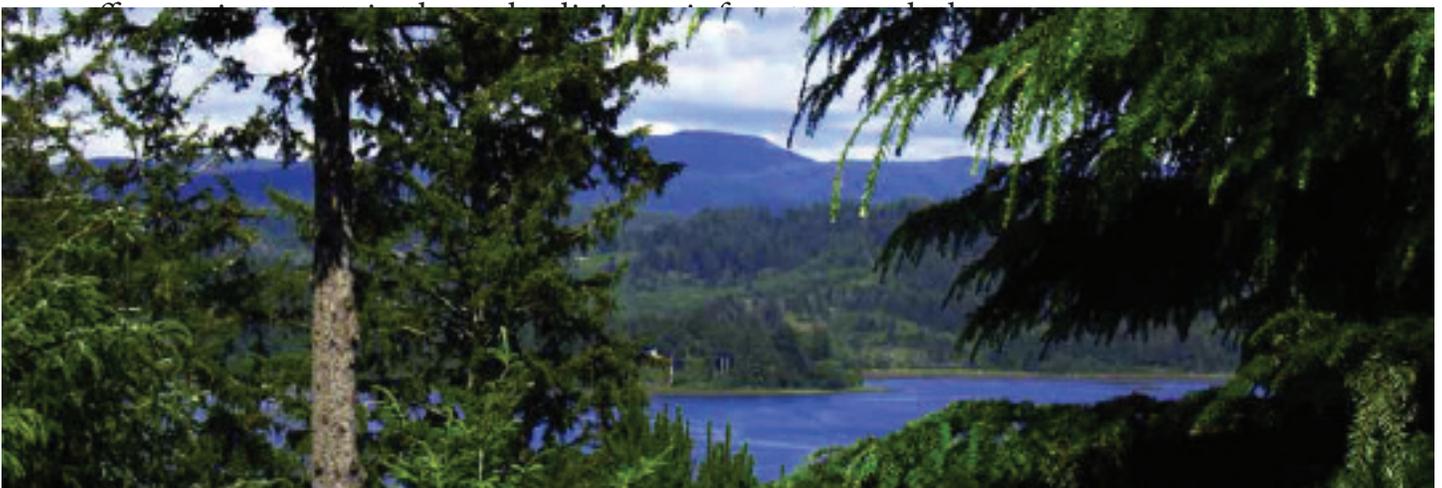
A group of Swiss companies has constructed an electric dump truck — and today Elon Musk offers his EV technology answer— that gets loaded at the top of a mountain, unloads at the bottom, and drives up empty. The gravitational energy that the truck experiences on a typical drive are greater when it is going downhill than when it is going uphill. A diesel-powered truck must use its brakes, as well a gearing down, burning excessive fuel, descending steep grades to maintain a safe speed. When an EV vehicle travels from a mine site at a higher altitude (as 2,700 feet of altitude, descending to sea level) this holding back from running away by a governor regenerative braking, recharges the vehicle and restores some of its range.

An electric all-purpose “pickup” truck, capable of being driven to load underground and moving its load from Table Mountain to a Tidewater crushing facility, could hypothetically be powered entirely by the gravitational energy of a regenerative braking system. In other words a far better investment than the huge traditional mine haulers with oversize tires that require an equally expensive road upgrade and dealing with a carbon-rich exhaust limitations.

I may be back with a proposal to use Mining Law of 1872 Mill sites to support a simple zip, or tram line towers, which would also generate battery charging power holding a load from “running away” in a Zorba The Greek event.

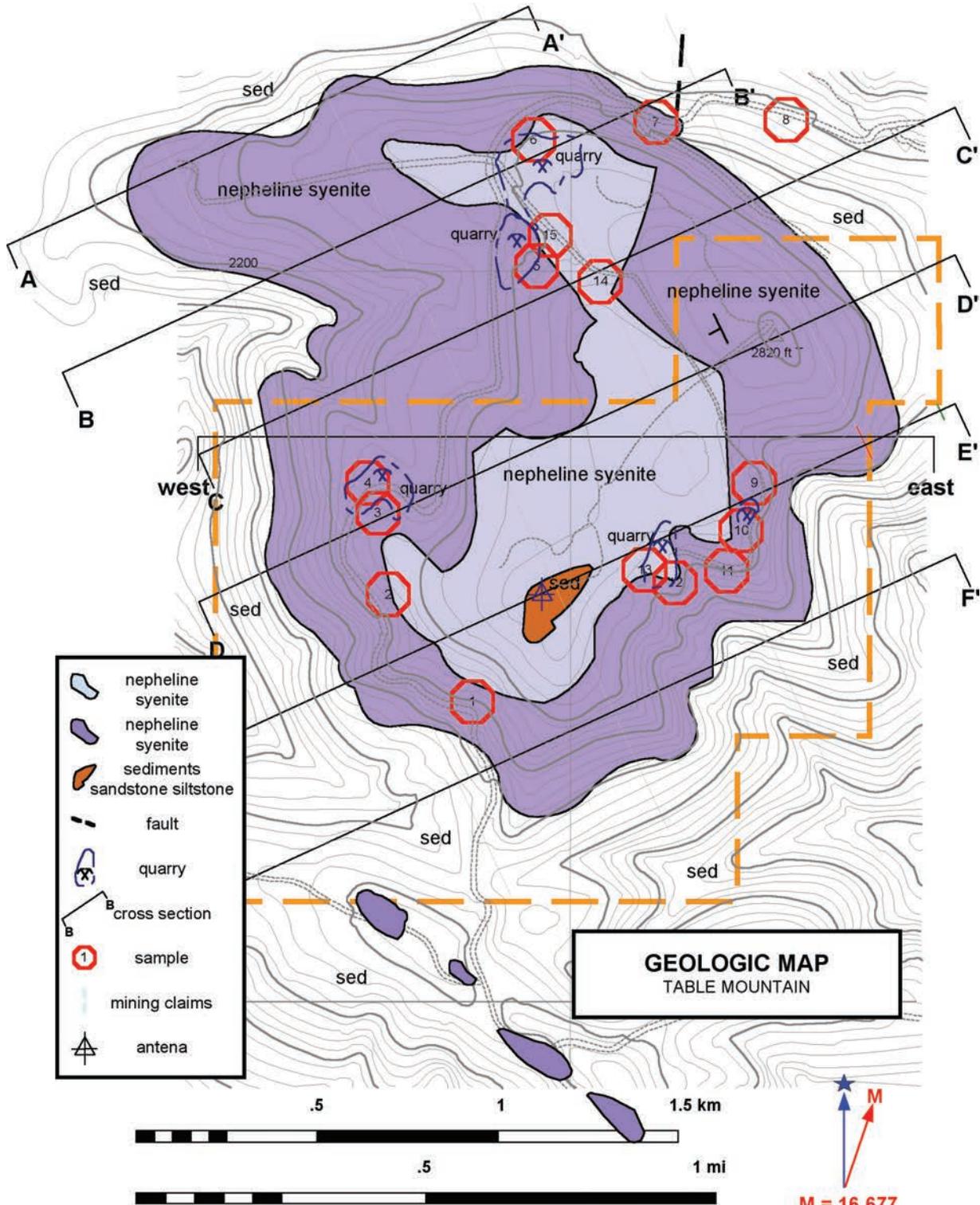
Or I may come back with a proposal that the WWI Spruce railroad grade (now FS 52) be brought to life again with a no-spark diesel-electric engine, as a joint venture where Table Mountain Mined materials; FS and private timber farm sales; and a Lincoln County tourist attraction could all be supportive to all mixed uses, including educational recreation.

One twist for both proposals, tram or train, could be a mountain bike station where Aspen ski resort-style bike trails as found in Moab, Utah, would have a donated rough Nepheline cemented graveled trails (to prevent erosion) of rated difficulty, to make world-class recreational



C. Project Description. Describe all aspects of the operation including mining, milling, and exploration methods, materials, equipment, workforce, construction and operation schedule, power requirements, how clearing will be accomplished, topsoil stockpile, waste rock placement, tailings disposal, proposed number of drillholes and depth, depth of proposed suction dredging, and how gravels will be replaced, etc. Calculate production rates of ore. Include justification and calculations for settling pond capacities, and the size of runoff diversion channels.

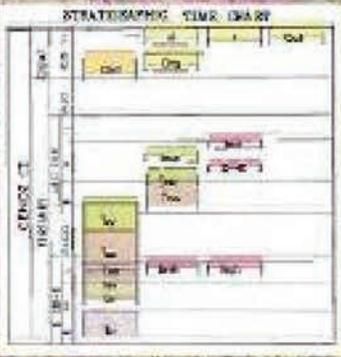
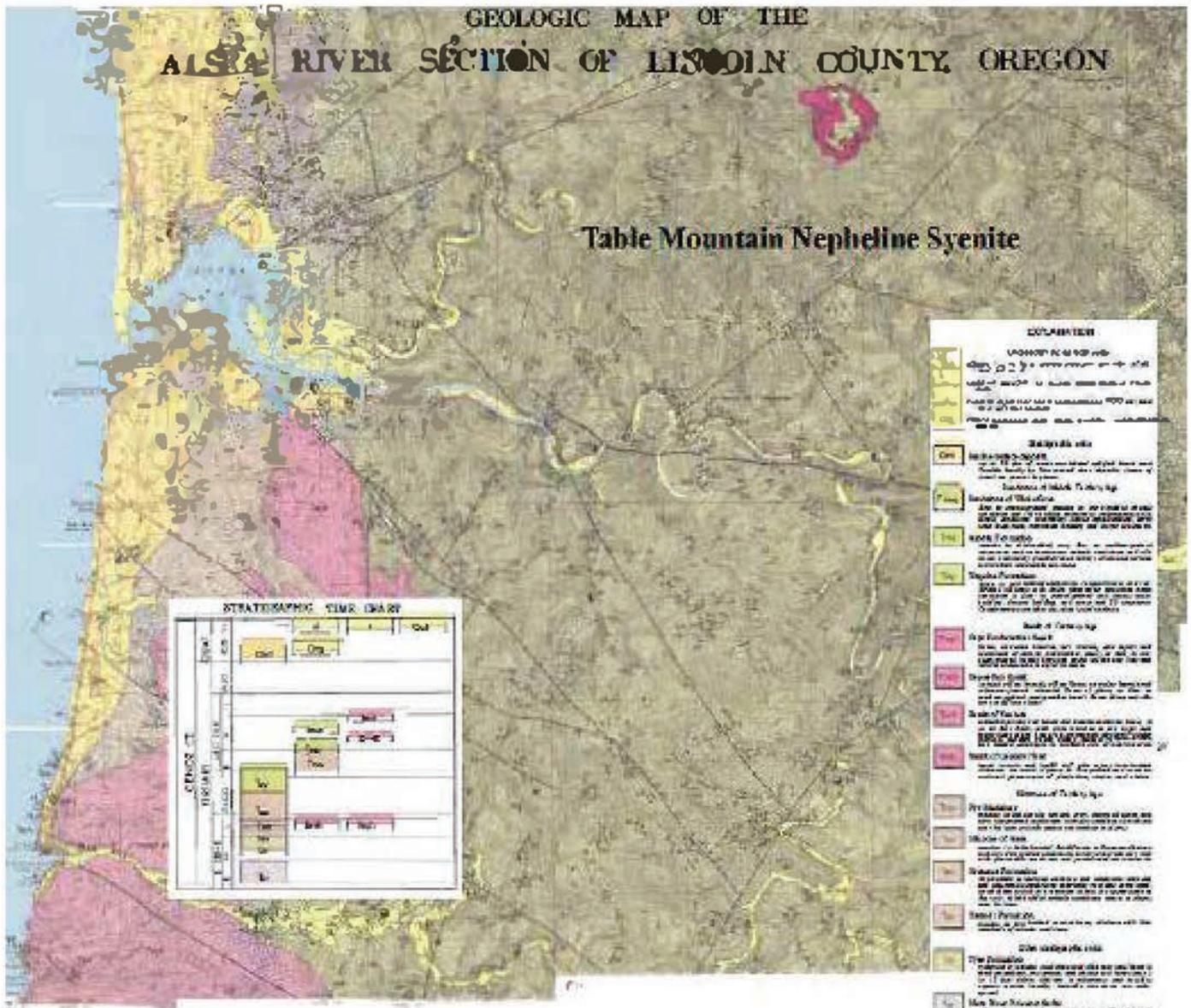
1) Exploration Methods



NEPHELINE SYENITE at Table Mountain, Oregon

GEOLOGIC MAP OF THE ALSEA RIVER SECTION OF LISIOLIN COUNTY, OREGON

Table Mountain Nepheline Syenite



- EXPLANATION**
- UNCONFORMABLE CONTACTS**
- Angular unconformity
 - Disconformity
 - Nonconformity
- Geologic units**
- Quaternary
 - Tertiary
 - Cretaceous
 - Jurassic
 - Triassic
 - Permian
 - Carboniferous
 - Devonian
 - Silurian
 - Ordovician
- Structural features**
- Normal fault
 - Reverse fault
 - Thrust fault
 - Strike-slip fault
 - Unconformity
- Other symbols**
- Well
 - Stream
 - Road
 - Boundary

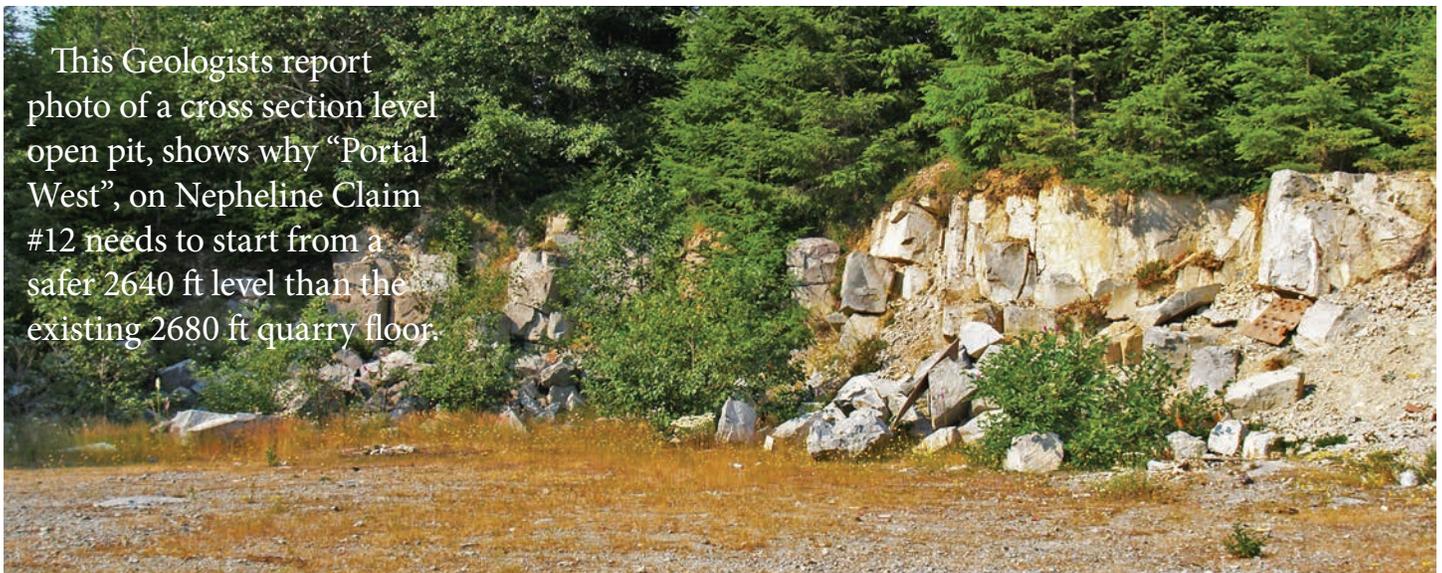
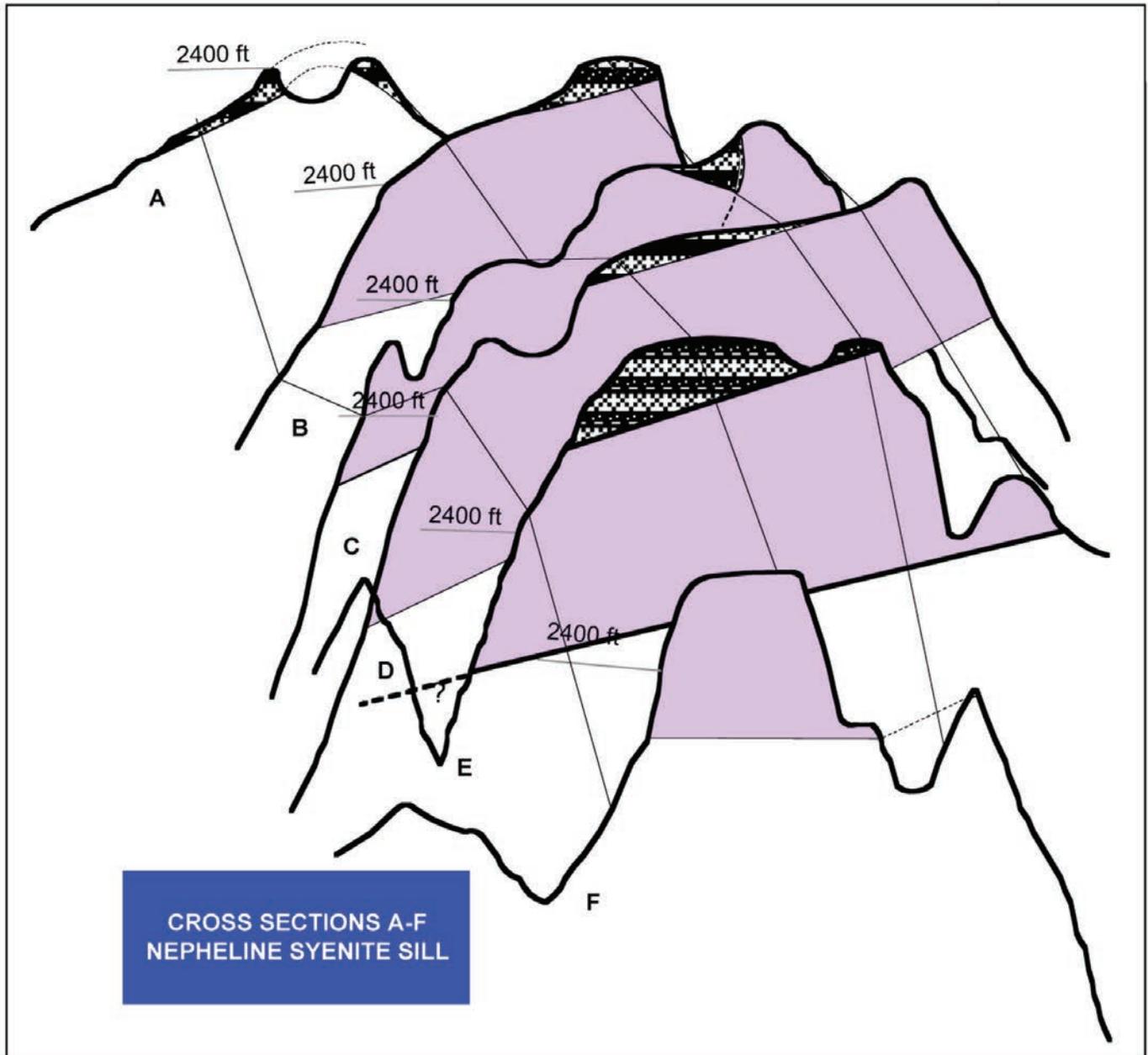
Geologic Cross Section



Geologic map by J. D. Goff, A. J. Hord, and others
 1964
 U.S. Geological Survey
 Open-File Report 64-100

EXPLANATION OF GEOLOGIC SYMBOLS
 U.S. GEOLOGICAL SURVEY

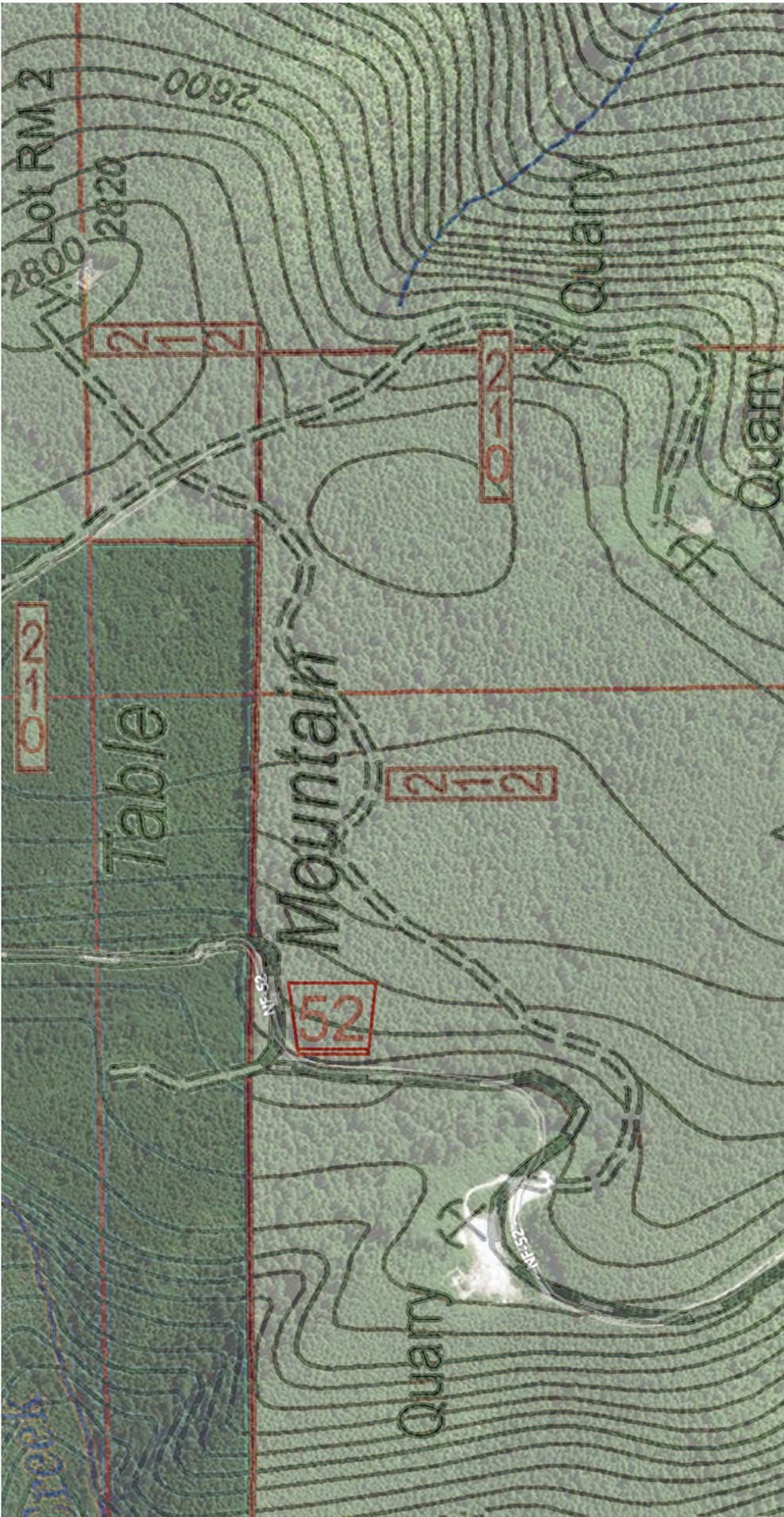
Scale of map: 1 inch = 1 mile
 1:62,500
 U.S. Geological Survey



This Geologists report photo of a cross section level open pit, shows why “Portal West”, on Nepheline Claim #12 needs to start from a safer 2640 ft level than the existing 2680 ft quarry floor.

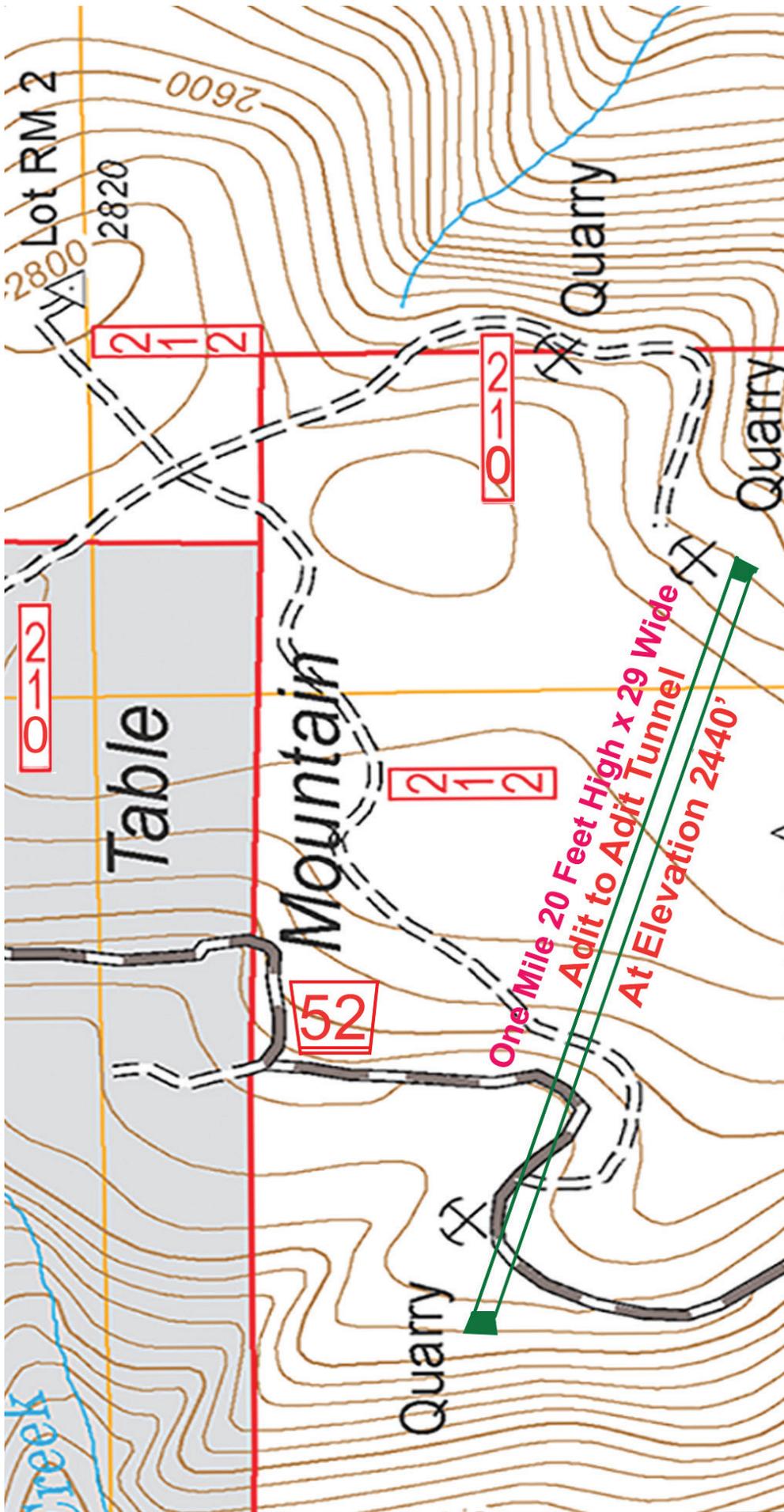


2) Who could have predicted that my 1950's experience in a United States Air Force Photo Reconnaissance one-step above Top-Secret Intelligence unit working with aerial mosaics, which were used as a base for topographic base intergeneration output for target manuals carried in a safe aboard B-47 atomic bombers — would come in so handy in the battle against Climate Change in the green mining of the nepheline syenite showing here —when properly mined and milled as a clean air, affordable housing answer marketed as *FoamKrete™*.



3) I was particularly delighted, and totally impressed with the quality of the US Forest Service maps recently published a digital topographic series— far more useful than the outdated USGS Quadrangle (Tidewater) I used as a base for my early claim map.

The slight discrepancies between the photo base, and established brass caps in this topo overlay has to do with the fact that even satellite imagery has to deal with a distortion of axis yaw.



4) This plotting of the proposed adits, connecting in a room and pillar midpoint, thanks to these turn on, or off, quality layers of the recent US Forest Service recently published digital topographic series far more useful than the outdated USGS Quadrangle (Tidewater) I used as a base for my early claim map.

And, as demonstrated in a few pages, a geographical contour map is a huge improvement defining access roads, and spurs, in a planimetric “fire map.”

The slight discrepancies between the photo base, and the established brass caps overlay has to do with that even satellite imagery has to deal with a distortion of axis yaw.

Professional Papers

[1\) Underground Mining Methods.pdf](#)

[2\) Hard-Rock Room and Pillars.pdf](#)



5) This exposure of the pluton sill, referred to as the Koch Brothers Georgia Pacific quarry on USFS maps, abutting Nepheline #1, is interesting when it comes to plotting proposed adit portals. Unfortunately, the hanging wall exposure, here, the largest showing on Table Mountain is at the northern end of the Nepheline claims mineral rights, which through the apex law concerning extra lateral claim block “real property” rights, meeting up with fee simple “real estate” on the school section 36, sold to startup Oregon State College (now University) —which did not come with any mineral rights.

This gray area meeting between a rock and a hard place could easily be solved with a joint venture where Georgia Pacific’s cardboard plant in Toledo also processed an already clear-listed use of Nepheline Syenite rock wool, as being manufactured in Europe and China. As this insulation is twice as effective as the “pink Stuff” but harder to ship perhaps one answer would be rigid cardboard containers designed to slip in-between studs (18 or 24” centered studs, or perhaps be part of shop built tip-up wall system.

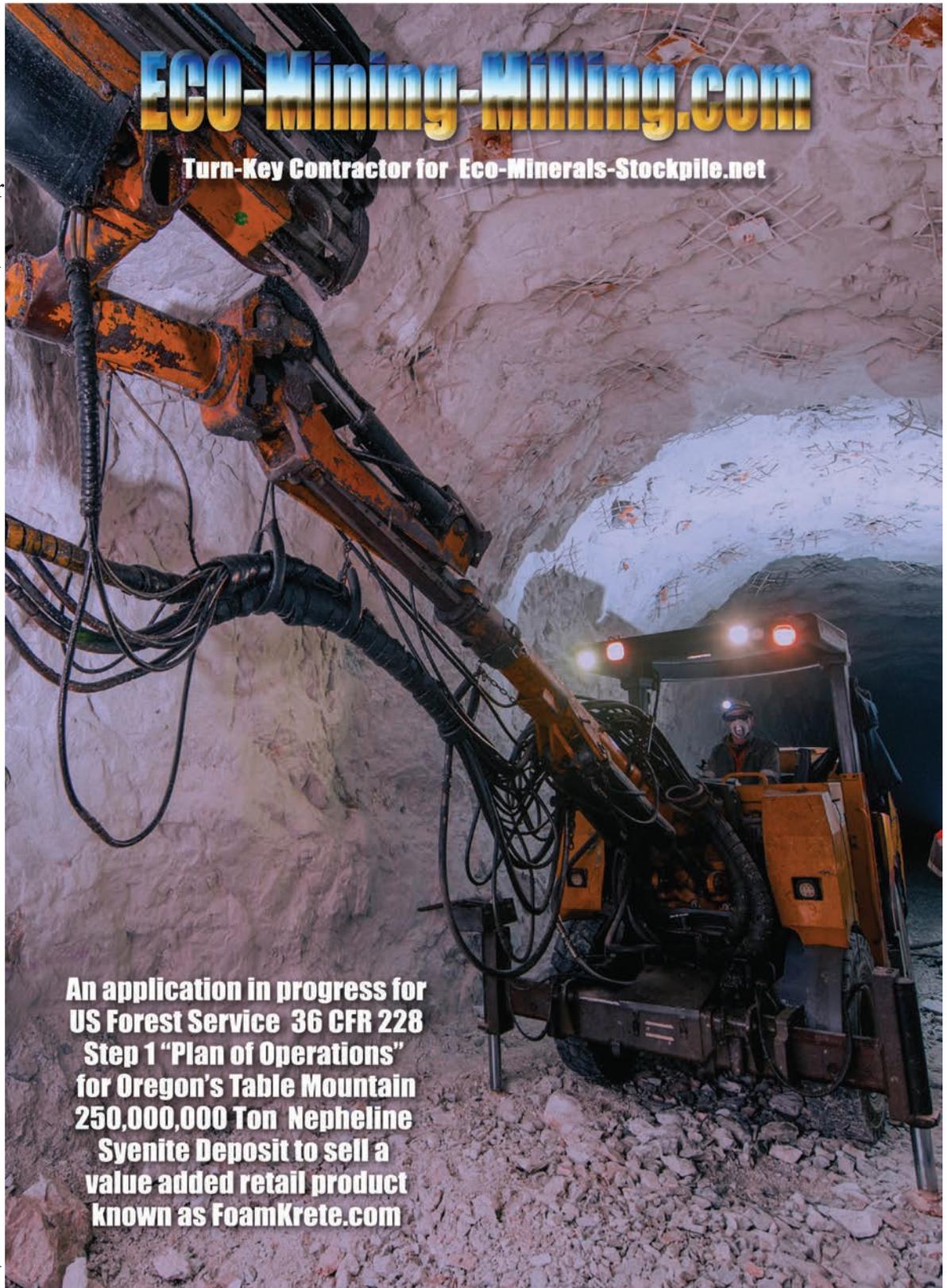
This “x-ray” face at an elevation of 2,600, or 240 feet above the W1 and E2 portals at a more solid 2,440 feet. The exposing an unexpected amount of jointing through weathering connecting in a room and pillar underground operation is a little too close to the surface for anything but

a quarry. What would be needed for the wood products company to partner with ECO-Mining-Milling for nepheline syenite suitable for rock wool would be to take the floor down to connect with an N-S tunnel intersecting with the E-W adits in the center room. (below face photo.

6) The contractor hired by the end-user distributor of *FoamKrete™* will be responsible for the hiring of the separately owned and controlled ECO-Mining-Milling Contractor working on a cost-plus 10% basis they should be considered as (under a strict check-and-balance system) the authorized operators of the claims.

As many of the Project Description questions fall into their purview, is important these answers come directly from a prudent ECO-Mining - Milling Management system.

7) I am answering as an individual "claim holder as, defined by the US Mining Law of 1872. To me, the only possible economically viable operation is directed underground, connecting already existing "grandfathered" in quarries.



8) The uniformity of assaying the 300 foot exposed sill surface in a pluton batholitic pipe system, which actually could go to great depth, precludes any idea of continuing with an open pit. The angle of repose exploiting a 640-acre (one mile across, the surface visible deposit would lead to an impossible, and very ugly deep glory hole which would consume the whole, iconic, mountain, which could only be reclaimed by a yet-another-crater lake, or by making Newport, Oregon, the worlds largest sanitary landfill.

9) Concerning “big” minings addiction to corporate bean counter’s open pits cost projections by using massive equipment in “my Oregon” backyard? My answer is: NO Way!



10) Another uniqueness in the mining procedure disturbing the surface is that there is no need for a tailing dump. What comes out of an underground honeycombed room and pillar network, similar to the mining of the Comstock Lode under Virginia City, Nevada, is all product.

There will be no unsightly waste because Nepheline Syenite is valuable in a collected dust form. Where fan ventilated adits, drifts, shafts, raises, will most likely become an essential part of a non-timbered (no square sets) rock bolt and sprayed “shotcrete” underground safety system.

11) And as the haul weights of “ore” off of the mountain would not change with crushing and milling, there is no point in operating anything on-site other than a tertiary jaw crusher to a pickup-truck loadable size. And that may well be best accomplished underground.

12) As the claims have not been core drilled to determine the unseen depth of the pluton pipe, it would be a folly equal to the frontier killing off buffalo for the tongue, hump, and hide for hedge fund platform exploitation not considering the ore body could reach a sea-level depth of 3,000 feet; and that the basis of any mining operation is not to destroy for quick superficial financial gain — blocking access to deeper ore.

What will be marketed to the affordable housing industry as FoamKrete.com, upon meeting

bonding and insurance requirements, and USFS suggestions? These steps would follow :

A) Prepare both the East and West Quarries by contracting ECO-Mining-Milling to lower both, no more than 40 feet on portal W1 to expose a solid hanging wall suitable for two side-by-side reinforced adit portals, without disturbing the forest above. The floor on the also existing E1 quarry would need to be lowered 160 feet to enter into the mountain at a safe overhead ratio.

B) The only other surface disturbance would be rescuing the East Quarry spur road 210 off of FS 42 past the microwave tower, and State of Oregon storage shed and backup generator in case the buried electrical lines were accidentally cut by logging on the school section private property. Or perhaps reestablishing FS 42 - 212 if any use of the 210 spur road is in conflict with the “No Trespassing” signs of Weyerhaeuser tree farm next door.

C) When connected by driving adits on an E $??^{\circ}$ S (or W $??^{\circ}$ N) 2,440 feet level, from exact favorable locations, will provide a fan-driven ventilation tunnel to meet, and exceed, OSHA standards protecting miners from the danger of siliceous of the lungs. The precision math will be determined when both portal floors have been prepared.

D) Shortly following the start of the first adit to double-check the rock mechanics of a Moh’s six hardness, with widespread jointing, by actually doing the optimal width and height for introducing state-of-the-art horizontal trackless drill platforms, called jumbos.

E) As the American Mining Equipment industry has either been taken over by foreign corporations or simply fallen behind, this 20 feet high x 29 feet wide drift will probably have to



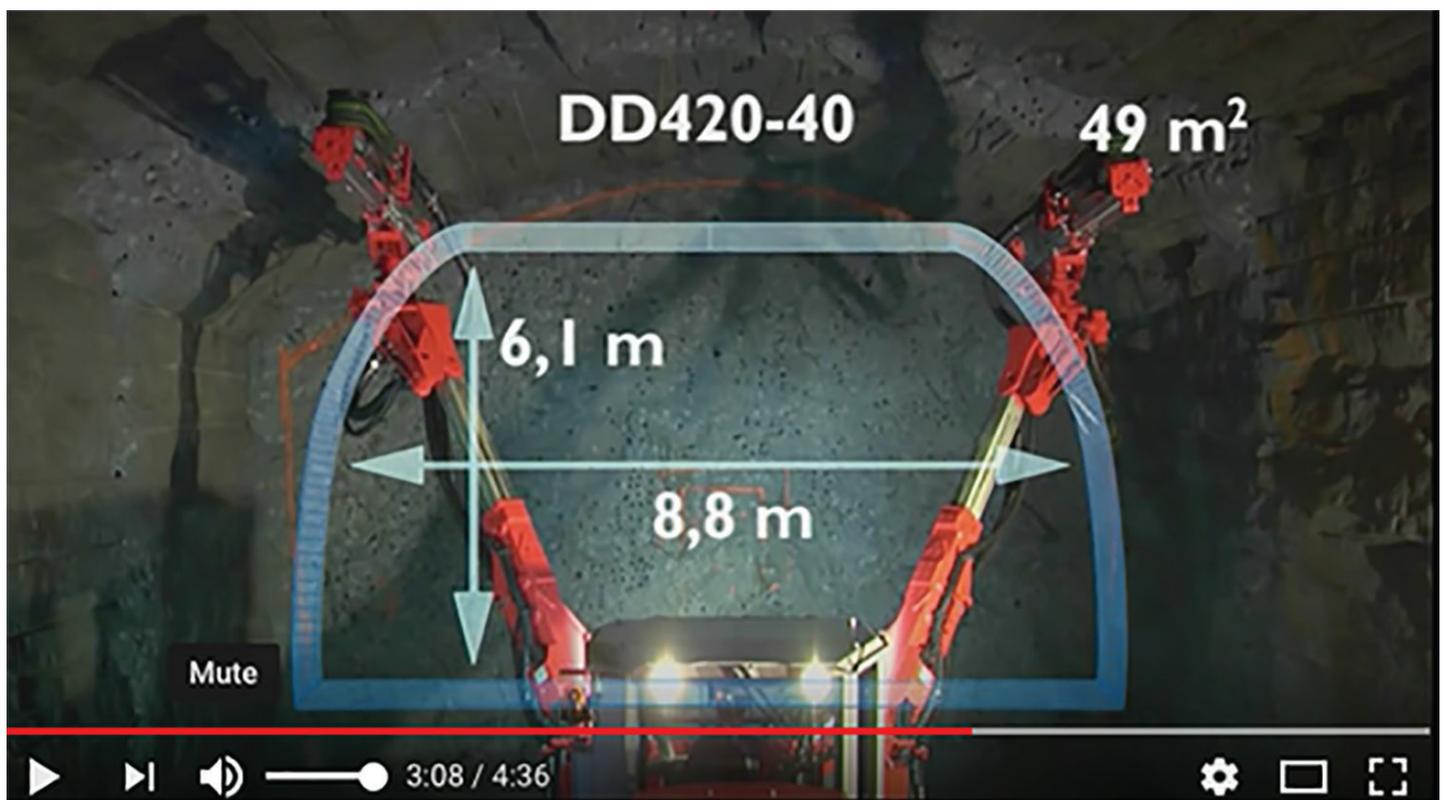
be accomplished by imported machinery that comes with foreign engineers. My underground experience in the 1950s to 1980s is outdated by the simple use of jack-leg drill patterns for blasting. So, at 82-years of age — 65 of them spent in mineral exploration— I am going to put down my single jack hammer and drill, to let a computerized competent, underground experienced “min-ing engineer” do the grunt work. I am hoping that my start-up ECO-Mining-Milling will be able to update how other hard rock mines listed at [www. WesternMiner.com](http://www.WesternMiner.com) (none right now) will comply with CFR regulations, instead of using the “pump and dump” bankruptcy failures to fleece shareholders who are told, “It’s all the bureaucratic Forest Services stupid permitting fault”!

My trying to keep current is why I can be proud in understanding that the twin booms shown here are preparing to use modern rock bolts instead of old-fashioned timbering, which saves trees. Notice the strength of the arc. And an ironic twist here will be to collect the drilling dust to mix with Portland cement to formulate a “spray created” layer of a super-strong *Foam-Krete™*

F) And as my plan of mining action depends upon 20 feet high x 29 feet wide drifts, instead of following a narrow, rabbit hole, twisting, pinching or swelling vein of perhaps unproven gold. The Table Mountain situation calls for a well-thought-out classic room and pillar program.

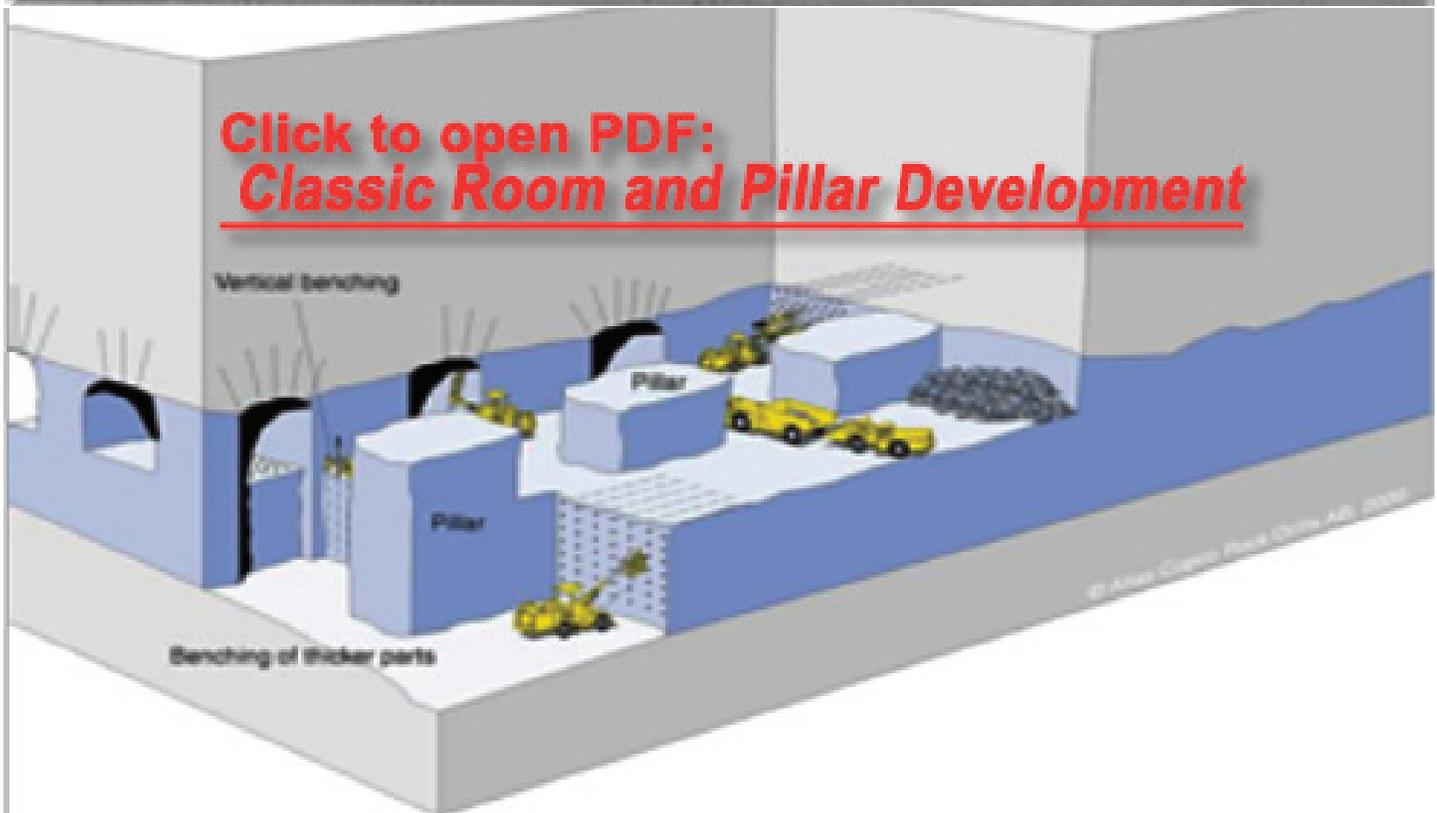
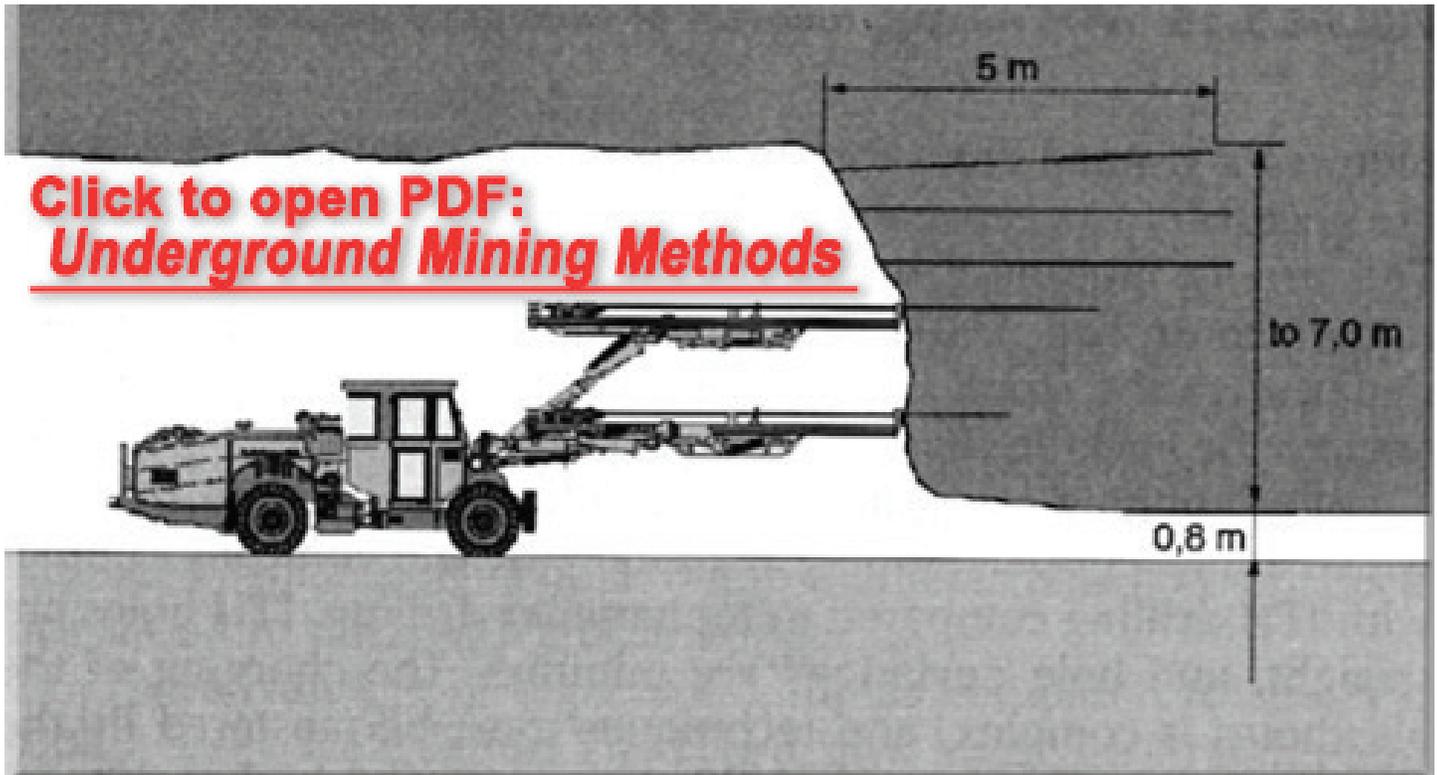
G) Again Following the latest in technology in being electrical powered underground, including LED lighting. A parallel, or twin, adit will be started to determine a safe width between the two of what would remain as a supporting pillar and rooms.

H) Another trial “room” will be put in as a secure powder-house, within the vision of a Class A motor-home solar-powered office and full-time watchman’s quarters parked in the what remains of the USFS contracted gravel stockpile that came from the Table Mountain Claims used to maintain FS 42, the Tidewater to Toledo Road.



It should be noted that, especially with a state-of-the-art trammer Jumbo drilling platform, that with computerization it will be easily able to drill a well-thought-out precise blasting pattern. I am hoping that a state-of-the-art certified blasting expert I know very well from my Utah days (who just happens to be a Mormon female) will be able to formulate a package implosion that resulted in rock that can be loaded without a jaw crusher on, or in, the mountain.

Unfortunately, my underground experience back in the 1900s prefers a 60% nitroglycerin dynamite for the center “shattering” cutters working down to a lesser percentage of TNT delayed lifters. Perhaps an updated use of Prilled Ammonia Nitrate may be cheaper, but I feel the threat



to Homeland Security through domestic terrorists is not worth the savings, and apparently, we have newer nonexplosive chemical demolition agent systems as Dexpan™ out of Texas, that comes with a customized drill hole pattern. Or other imported smarter-cheaper-better systems(?) available today. Blasting is something that does need to be managed by a licensed professional.

And, and as 3M, Dow Chemical, and Uniman have both been experimenting with sprayed Nepheline Syenite becoming a hardened replacement (as my Scottish MacAdam something-great-grandfather developing asphalt as a “Macadam road”) I am of the mind to contribute Nepheline Syenite, once again, experimentally, in the form of *FoamKrete*™ to the betterment of the Tidewater to Toledo Road maintained by the USFS surface use “partner”, beyond what is requested for road use license fees.

C2. Project Description. Continued...

I) Workforce,.

As much as I would like to promise labor-intensive JOBS to solve political problems, the nature of the work demands the turn-key contracting of (or developmental training of) teams that have a high sense of morale working together underground in safety. I know this from my experience at age 29 running a crew of 27 in wilderness Alaska, with a 3 month budget of \$250,000 for Homestake Mining. Consequentially the “Boss” will somehow be a ‘Director of Project’.

J) Construction and Operation Schedule,

Here I will wisely answer while still working on the variable, “quién sabe.” This from the jungle of the Darien Gap in Panama where my Choco Indian crew knew very few words in Spanish. The other phrase we all became well acquainted with was a morale-boosting “veintiuno” or 21 game of cards where I stupidly lost a number of Bic lighters, and only won ordinary handwoven storage baskets in return. But no, I did not exploit my crew as Spain had done. I showed my feeling on this by a Saludos de regalo gift of a Coleman Gas Lantern we played under each night when I left by dugout canoe after a delightful six weeks adventure with newfound amigos, that did not feel they needed a union to protect their rights.

K) Power Requirements

As a noted advocate of solar, most likely the “camp” will be an example of fighting global warming. I have made no inquiries on what it would take to tap into, or upgrade, the underground power source that supplies the microwave tower on the claims that really solves any WI-FI communications. And I intend on limiting the load on a propane-powered generator in the future by Alt Energy using the gravity advantage of moving rock under the control of a governor to safely hold back a load, by generating energy.

P) Proposed Number of drill holes and depth

Impossible to calculate the horizontal blasting holes, but once we have established a center room 312 feet underground, diamond core drill sampling will begin exploring downward past the surface, visible, depth defined as 300 to 400 feet. Going deeper will answer if Table Mountain is a Sill, or a Laccolith, of a Batholith.

Q) Depth of proposed suction dredging, and how gravels will be replaced, etc.

Not applicable.

R) Include justification and calculations for settling pond capacities and the size of run-off diversion channels.

Water will not be used in mining, except for shot-creating the walls, as cement dust when reacting to any liquid will turn into a misshapen concrete.

S) Calculate production rates of ore.

As FoamKrete.com already has five different concrete block manufacturers waiting for the delivery of a lightweight building material that is wildfire and resulting flash flooding “proof”, there doesn’t seem to be any end in site when it comes to mining milling and delivering 250 million tons of an affordable housing 60% cost-cutting target, and production tools should be purchased in module production sizes, the critical path thinking needs to focus on how best to deliver raw bulk tonnage off the mountain seventeen miles to milling, and perhaps an assemble by the numbered do-it-yourself manufacturing site of a “house in a box” clean industry plant. Deliver the “lightweight but super strong promise” in truck size shipping containers that are recycled to become bolt-together foundation/basement storage containers for storing excess runoff rainwater, or safely housing deep cycle batteries to store excess solar energy. All of this from a factory, or specialized factories as solar smart roofing panels, with access to low-cost rail, barge, ship transportation.

D. Equipment and Vehicles. Describe that which is proposed for use in your operation (Examples: drill, dozer, wash plant, mill, etc.). Include: sizes, capacity, frequency of use, etc.

By now it should be obvious that this very unusual mining “prospect” has a mineral rights owner equally a bit unusual. However, when it comes to understanding the economics of business development be advised that I did a 4-year joint venture with the Columbia River Economic Development Council by publishing and editing the high-end gloss paper 4-color magazine, *Economic Currents*.

This is where I developed, early on, strong opinions on clean air, clean water, and workforce management. Where I devoted a total issue on W. Edward Deming’s concept of Total Quality Management, or the TQM system that Japanese car manufacturers used to win market share over lazy U.S. car-makers. Deming based his plans of action upon an earlier engineering concept of Plan-Do-Study-Act (PDSA) which came about from his genius-level consulting with the USDA during the farming crisis of the Great Depression.

Basically, W. Edward D. had worked with the overall flow of producing a finished saleable product, as logs, often started with those harvesting seed cones. And that contribution was passed along to a nursery, as the Gifford Pinochet Wind River where the mother of my children worked on a seasonal needed basis, whose tree-farm planter customers proudly “sold” their quality effort, to the “protectionists” as Rangers, ranging, and our son working his way through college on a Wind River “Hotshots” fire crew that had a Total Quality reputation for being on the front lines of project fires all over the West.

About the time I should be introducing the importance of cutting labor costs by sophisticated machinery, a greedy concept which doesn't fit into the Total Quality Management System where machines are best used as tools by a motivated workforce also concerned about safety.

Some things I do not think accountants ever consider is avoiding lawsuits concerning the value of a life, and the benefit of the "goodwill feeling" of a worker's point of pride. Remember the lessons of the folk song about John Henry, the Steel Driving Man when some financial types suggest that total automation would solve their money problems. As a TQM quality freak, I do not believe their rate of invested money return is our problem when it comes to making money by delivering a quality product.

This is why I shall be filling in the Equipment list as:

1) As already mentioned, a mobile Jumbo drill platform with a filtered air cabin reducing the danger of long-term breathing exposure of silica dust, which is collected instead for shot-creating hanging walls with roof bolts far superior to timbering. It is a modern improvement to what was an economical "jack leg" drilling system.

Which competitive model will be purchased, leased, contracted depends upon some sort of forward-looking financing. Right now the choice is also influenced by the outcome of new tariffs in what right now is a trade war uncertain situation.

The smart underground decision on ancillary equipment as a mucking machine, or scoop loader, rock bolt machine, lights, and ventilation really should follow the engineering of one



turn-key responsible supplier. If that is possible. Oregon used to have a quality mining equipment manufacture, but that too was exported.

This concept should follow on the surface for jaw, and VSI crushing, and ball milling the Moh's 6 rock to a 325 mesh for *FoamKrete™* wholesale production. As Mac&Murray was the Advertising agency that helped take a Vancouver, Washington, Vertical Shaft Impeller (VSI) manufacturer Canacia-Jaques from number 19 in a field of 20 worldwide, before it too was sold to a World Wide cartel to be replaced with a cone. The best apparent and proven choice of a "Nepheline grinder" turn-key with an engineer, is best found in China, this too should not be a handicap to plans for production.

Maybe. I have survived as an owner since the 1980s by escaping the financier's tricks and traps of issuing an option, it turns out, to a Portland business insurance company operating in California peddling a plan authorized by the Banking Commissioner of the Turks Kayos Islands. I survived by null and voiding another option to platform trade the whole property as validated by a "tame CPA" who stood on a rock on the mountain and waved his arms about while shout-

ing \$55 million. After which I was paid \$2,000 per month for one year as a holding fee.

Then there was a time-wasting Doctor-Dentist-Broker from Kaiser, Oregon who got me into a tap-dancing Hollywood entertainment lawyer's flapping lip chorus-line where a local radio financial talk host who was part of a NASDAQ shell, before the SEC? asked what document I had physically signed? This fiasco left me with a reputation among local Realtors, and the local Times Newspaper, as a "fraud"

Unfortunately, this experience was not enough to say no to the double-dipping dentist who this time bypassed the option route by issuing me a joint venture swap for controlling shares in something named Greater Northwest Nepheline, or was that Greater Northwest Nepheline Research and Development, as their ploy was the Secretary /Treasurer was authorized to move the asset into their own similar named start-up. Fortunately, the Landgrill brothers ended up in Club Fed, for peddling stock to gas station attendants for a fill-up to get home to Eugene.

After recovering from this by re-staking new Lode Claims, thus giving up any future right to apply for fee simple patent, I was approached by a University of Washington business professor who this time ran a joint venture, very little money down, option agreement through an escrow. RIA Mines (their account prepared feasibility study is available above) whose problem also was financing. Dr. Manton did not listen to me about London Prime Banks tranches, or about Chinese or Arab credit default schemes. RIA Mines professional Plan of Action failed for not answering how Manton had died in a Florida jail for something to do with kiddy porn trafficking.

Falsely accused? Not by me. I actually liked Tom who may have been ousted by high finance bullies who, again, we're only looking for a quick profit from a manufactured bankruptcy.

Finally admitting I was a high finance novice that had no defenses from rooms-full of professional sharks —who only think of a mine as a hole in the ground where the experts make a very good living by mining mineral investors pouring money into the aforementioned hole, I bought the do-it-yourself book Limited Liability Companies for Dummies, and am on the road to recovery from being an excluded claim owner outsider for anything to do with publicly traded stock, by selling, as an individual, a piece of the in-place protected rock as a commodity, which it is, rather than a "security" which according to the US Mining Law of 1872 concerning Associations, it is not!

I find myself, as did Oprah Winfrey, forced by disbelievers to "do it myself" to build out a dream that other's could not see. I too have the resolve to pick up John Henry's steel driving hammer to get it done the hard way!

E. Structures. Include information about fixed or portable structures or facilities planned for the operation. Show locations on the map. Include such things as living quarters, storage sheds, mill build-ings, thickener tanks, fuel storage, powder magazines, pipelines, water diversions, trailers, sanitation facilities including sewage disposal, etc. Include engineering design and geotechnical information for project facilities, justification and calculations for sizing of tanks, pipelines and water diversions, etc.

Although the surface of the mining claim Nepheline #2 has permanent structures associated with the operation of a microwave communications tower backup generator in case the under-ground power-line paralleling FS F52 and the spur 210, that also is access to a State of

Oregon parking shed— this plan of action is to minimize surface disturbance by bringing in on rubber, to the FS F52 “alcove” on the NE 1/4 of the NW 1/4 quarter of Section 6, Township 13S, Range 10W, WM. This is on mining claim Nepheline #12, at the junction of the FS 52-212 spur.

This is the “pad” that Cedar Creek crushed surface rights Nepheline Syenite on a US Forest Service contract for common variety use gravel maintaining FS 52, well known and signed as the Tidewater to Toledo Road, which supposedly reads like it is a public thoroughfare.

Happily, as there is no need for a tailing dump as everything mined is the product. Other than actual crushing, using a jaw or breaker bar on what will not pass through a grizzly loading screen to load a truck to haul the same weight efficiently down the mountain for VSI, or cone, crushing, and the final milling to a 325 mesh “face powder” Nepheline cement. Hopefully, the milling location could be associated with a labor-intensive facility (with family housing?) manufacturing AAC style or CLC transportable tilt-up concrete walls (in a transportable kit form) for truly ECO affordable homes.

1) The office/cook-shack/and 24 hours per day watchman’s quarters will be a self-propelled and contained Class A Motorhome (as shown on my www.MotorHomeTraveler.com) accompanied by a tow-able lightweight FWD capable of hauling an auxiliary water bladder from the roadside spring to maintain a closed system. And, by also carrying portable gray and black water transporters to Waldport when making a grocery run to a town that has a public RV dump.

2) The “Mountain Master” quarters and visitors bunkhouse for workers who do not commute, will be a Fifth Wheel Trailer, also fully powered by solar. As the numbers needed to overnight on the mountain increase additional gray and black water capacity in the form of porta-potties, as I doubt that the humus layer above a rock-solid soil horizon would support any perk tests for anything but a pumpable pit.

3) Any fuel storage for running a transportable generator/air compressor would also be in a pressurized sealed tank, delivered on wheels.

4) The only other “structure” needed is a powder magazine, which should be guarded 24 hours per day, which is why I plan to use the jumbo drill from the “administration pad” to build a rock-solid safe vault, with a double lockable steel door, for the ultimate answer for safety.

V. ENVIRONMENTAL PROTECTION MEASURES (SEE 36 CFR 228.8)

A. Air Quality. Describe measures proposed to minimize impacts on air quality such as obtaining a burning permit for slash disposal or dust abatement on roads.

This is a simple question to answer as the Claims on Table Mountain look down upon the Pacific Ocean rippled by the prevailing winds of a World turning away from the pollution of Asia. Why should any underground worker be subject to medical problems for saving others?

Not many short-term voters (including both tree huggers, and climate change deniers) realize how ECO importance of clean air, assisted by USFS production of Oxygen by the West Coast Cordillian mountain rain/snow catching forests (“the lungs of the world”) that scrub prevailing winds to protect America’s “Air-shed”.

I do. This canary in a Nepheline cement silicon mine does realize that any so-called harmless contamination released to dissipate by being carried away, actually needs to be scrubbed by a fan

collection system. Especially when that “Nepheline Cement Dust” (considered a commodity by the Bureau of Mines in Albany, Oregon, before Congress closed it down for cost savings) is the saleable product. And that worker protection from dust is something that will pay for itself.

Oregonians in need of an air quality example should look at the countryside around the Portland Cement plant on I-84 east of Baker City, Oregon, for an example of what not to do, especially when it comes to maintaining healthy vegetation.

B. Water Quality. State how applicable state and federal water quality standards will be met. Describe measures or management practices to be used to minimize water quality impacts and meet applicable standards.

- 1. State whether water is to be used in the operation, and describe the quantity, source, methods, and design of diversions, storage, use, disposal, and treatment facilities. Include assumptions for sizing water conveyance or storage facilities.**
- 2. Describe methods to control erosion and surface water runoff from all disturbed areas, including waste and tailings dumps.**
- 3. Describe proposed surface water and groundwater quality monitoring, if required, to demonstrate compliance with federal or state water quality standards.**
- 4. Describe the measures to be used to minimize potential water quality impacts during seasonal closures, or for a temporary cessation of operations.**

As Nepheline cement, crushed past the fineness of a common variety road gravel, tends to bind together (known as cementing) when activated by moisture. The last thing the ECO-Mining-Milling operation needs to deal with is water, except by avoidance. Therefore suggested questions here of 1 through 5, are of little concern.

Fortunately, for this production plan, what water there is upon Table Mountain appears to snow-melt off of the very top thin layer of a sedimentary Tyee Sandstone into some stagnant ponds and a very much appreciated “hillside spring” where the USFS has constructed a small collecting dam with a spigot. A few natural ponds probably should be contained in a under-water cement, as FoamKrete.

A water chemist visiting this stockpile of chemistry suggested that IF the supply was from a deep-seated artesian source which being filtered by PH neutral Nepheline Syenite, as used in a Newport public swimming pool, well the “colloidal” waters alone might be quite valuable. Yes, the “spring” should, for all sorts of everyday life reasons, be protected for early fire suppression, and drinking water, use.

C. Solid Wastes. Describe the quantity and the physical and chemical characteristics of solid waste produced by the operation. Describe how the wastes will be disposed of including the location and design of facilities, or treated so as to minimize adverse impacts.

Unless the USFS has future plans for installing a pit-n-pump outhouse for recreational use (say a hike-in group campground at the site of the old forest fire lookout facility), this question has already been answered in Project Description, Structures.

D. Scenic Values. Describe protection of scenic values such as screening, slash disposal, or timely reclamation.

Thank you, USFS for including this as a tangible property, in a county economically dependent upon ECO tourism. Already the Siuslaw National Forest district ranger is managing some local incredibly connected nature sites as the Tillicum, Rock Creek, Brown Bear, campgrounds, and the Drift Creek Wilderness where a canoe can travel upstream on an incoming tide, and return on the ebb. Proof that “scenic values sell”

It means a lot to me personally as a young freelance magazine photographer/writer with credits that include a 16-page contract brochure for USFS Region Six, and LIFE, Holiday, Ford Traveler, VW Wide World magazines, etc., focusing on travel values.

Before I founded my other business of Mac & Murray Advertising and publishing in 1986, that led to editing and publishing magazines as *Economic Currents* (my title) for the Columbia River Economic Development Council. My high-end four-color gloss covers that used scenic values in the promotion of business along the Columbia River were successful in attracting ECO-aware relocations to what started to become known as the Silicon Forest.

And after my wife died from cancer I most likely attributed to her growing up in the “radioactive plume” of Hanford, I closed the brick and mortar office to publish www.Motor-Home-Traveler.com with another beloved free-spirit, Miz Bobby who actually was my Table Mountain chain-man, crawling over solid walls of dripping wet rhododendron bushes on very steep slopes, with a thread box, while I directed her along my shouted Bruntin bearing. Surprisingly enough she developed into a scenic wildflower photographer, and the rhododendron is still a favorite scenic subject.

Living full-time in an off-grid motorhome with first-generation rooftop solar to power a computerized office with electronic communications lead to the insane idea of www.USATravelMagazines.com, where all 50 states with a uniform URL as www.WashingtonTravelMagazine.com (the only title fully functioning during a reformatting to a safer vertical PDF) and down the road to www.OregonTravelMagazine.com, etc.

Here is where we stopped along our merry way to camp along the incredibly beautiful Alsea River which we share, across on the wild side with a herd of Roosevelt Elk. And the occasional black bear swimming across the current in an “angled ferry glide” looking very much what we used to call, in www.AlaskaTravelMagazine.com as a “Rare and endangered Pacific Northwest Alligator.”

My problem is my young thinking, the remaining seconds are ticking away. Once I have taken care of developing *FoamKrete*™ to the point it cannot be diverted from doing the right thing, I will continue working, again (once I have a little payday) on improving “The Wonderful One” portfolio which is all about traveling up California’s Highway 1, and 101 to Oregon and Washington. A world-class scenic values itinerary.

E. Fish and Wildlife. Describe measures to maintain and protect fisheries and wildlife, and their habitat (includes threatened, endangered, and sensitive spe-

cies) affected by the operations.

Not comfortable with a technical form writing style, I am finding it curious that following the outline of this CFR suggested form flows simply from scenic values to scenic wildlife along the abundant Alsea River wetland life zone. Which is very different than the sub-alpine zone of Table Mountain with a scarcity of browse and grazing. Where I have only had the pleasure of saying “Hi” to a mother red fox proudly showing off her litter of kits. And, a “big-foot” lynx, whose track and scat are not the same as what was locally called in an indigenous Chinook-English-French Trade Jargon as “Hyas,” for big, “Puss-puss” for the cougar cat who occasionally crosses over the mountain on what could be a 50-mile loop hunting trip.

I do wonder if birds are designated wildlife. Given the desperate need to slow clear-cutting to the standards of Clinton’s Forestry Act, the endangered Spotted Owl, and the Pacific Murrelet; both so rare I have never seen one, were used as a conservation cause and effect. Fortunately for me, this potential problem is moot due to further studies along the Ho River in Olympic National Park. And the continued harvesting on Table Mountain, next-door by a mega private logging company, which also uses a bit of their common variety Nepheline Syenite for road use.

F. Cultural Resources. Describe measures for protecting known historic and archaeological values, or new sites in the project area.

Having Native American blood in my DNA and having raised my teenage children in the Columbia River Gorge under the shadow of a sacred Wind Mountain where our neighbors the Sohappy family of what is left of the “Cascades” trusted us enough to share their ancient trail to the top to experience their historic “vision quest” pits, shaped as almost a smudging “bathtub”.

The wealthy Salmon River people rarely traveled far for food, unless it was up into the mountains to pick huckleberries which were beaten into dried pemmican. My daughter Bernadette, who is a force in tourism at Cascade Locks, Oregon, is always invited by her childhood friends to visit the Yakima side of the Indian Heaven huckleberry fields.

My point here is to establish that the Alsai, Yakima, and Silitez River people did not travel the greater distance to Table Mountain for food, or spiritual necessity. My extensive examination of the mining claims has not turned up any sign of an archaeological setting, other than at the historical site of the Table Mountain Forest Fire Lookout, which I would like to see come back as a *FoamKrete*™ native designed structure (I will pay my part) that could become a hike-in-group camp where communal bear safe cooking shelter (similar to what is found at Wonder Lake in Denali National Park) which would contain the risk of open campfires.

A better historical site use than what happened when a new “turnpike” trail up the Gifford Pinchot’s Wind Mountain was dedicated to the preservation of the Cascades “medicine pits” by driving a steel fencepost driven in the center to hang an ugly yellow sign promising huge fines for disturbing an archaeological site!

G. Hazardous Substances.

- 1. Identify the type and volume of all hazardous materials and toxic substances which will be used or generated in the operations including cyanide, solvents, petroleum products, mill, process, and laboratory reagents.**
- 2. For each material or substance, describe the methods, volume, and frequency of transport (include type of containers and vehicles), procedures for use of materials or substances, methods, volume, and containers for disposal of materials and substances, security (fenc-**

ing), identification (sign-ing/labeling), or other special operations requirements necessary to conduct the proposed operations.

3. Describe the measures to be taken for the release of a reportable quantity of a hazardous material or the release of a toxic substance. This includes plans for spill prevention, containment, notification, and cleanup.

Flowing right along protecting US Tax Payers, I am pleased to present these scientific findings on an already PH neutral Nepheline Syenite rock, proven not to be chemically harmful to sensitive salmon runs for being the jetty and rip-rap protection when crossing the Yaquina River Bar.

This statement is presented with a back-up photocopy of a rival supplier concerning safety.

And, as the MSHA CFRs, do not have anything to add to dust control and collection (a valuable product) already mentioned I will go to the other DANGER warning signal of limiting exposure.

H. Reclamation.

Describe the annual and final reclamation standards based on the anticipated schedule for construction, operations, and project closure. Include such items as the removal of structures and facilities including bridges and culverts, a revegetation plan, permanent containment of mine tailings, waste, or sludges which pose a threat of a release into the environment, closing ponds and eliminating standing water, a final surface shaping plan, and post operations monitoring and maintenance plans.

The easy way to redecorate the surrounding natural scenery (other than the Tidewater to Toledo road) would be to implode the portals to the point where it would be difficult to tell exactly where a prospector 50 years from now could actually find the old “FoamKrete” working. I know this from my field experience in Nevada, Idaho, Montana.

And perhaps it would be a mistake, in the future, for the USDA to close down “abandoned” levels that would be a perfect environment for agricultural needs as aging Roquefort cheese (as Oregon Langois that went out of business for not having a cheese cave; or for the commercial production of mushrooms, which also would not fall under a mining purview.

VI. FOREST SERVICE EVALUATION OF PLAN OF OPERATIONS

A. Required changes/modifications/special mitigation for a plan of operations:

?????????Nothing?????????????

B. Bond. Reclamation of all disturbances connected with this plan of operations is covered by Reclamation Performance Bond No. _____, Dated (mm/dd/yy) _____, signed by _____(Principal) and _____ (Surety), for the penal sum of _____.

This Reclamation Performance Bond is a guarantee of faithful performance with the terms and conditions listed below, and with the reclamation, requirements agreed upon in the plan of operations. This Reclamation Performance Bond also extends to and includes any unauthorized activities conducted in connection with this operation. The bond amount for this Reclamation Performance Bond was based on a bond calculation worksheet. The bond amount may be adjusted during the term of this proposed plan of operations in response to changes in the operations or to changes in the economy. Both the Recla-

mation Performance Bond and the bond calculation worksheet are attached to and made part of this plan of operations. Acceptable bond securities (subject to change) include:

1. Negotiable Treasury bills and notes which are unconditionally guaranteed as to both principle and interest in an amount equal at their par value to the penal sum of the bond; or
2. Certified or cashier's check, bank draft, Post Office money order, cash, assigned certificate of deposit, assigned savings account, blanket bond, or an irrevocable letter of credit equal to the penal sum of the bond.

VII. TERMS AND CONDITIONS

- A. If a bond is required, it must be furnished before approval of the plan of operations.
- B. Information provided with this plan marked confidential will be treated in accordance with the agency's laws, rules, and regulations.
- C. Approval of this plan does not constitute certification of ownership to any person named herein and/or recognition of the validity of any mining claim named herein.

B. Bond. Reclamation of all disturbances connected with this plan of operations is covered by Reclamation Performance Bond No. _____, Dated (mm/dd/yy) _____, signed by _____(Principal) and _____ (Surety), for the penal sum of _____.

This Reclamation Performance Bond is a guarantee of faithful performance with the terms and conditions listed below, and with the reclamation, requirements agreed upon in the plan of operations. This Reclamation Performance Bond also extends to and includes any unauthorized activities conducted in connection with this operation.

The bond amount for this Reclamation Performance Bond was based on a bond calculation worksheet. The bond amount may be adjusted during the term of this proposed plan of operations in response to changes in the operations or to changes in the economy. Both the Reclamation Performance Bond and the bond calculation worksheet are attached to and made part of this plan of operations. Acceptable bond securities (subject to change) include:

1. Negotiable Treasury bills and notes which are unconditionally guaranteed as to both principle and interest in an amount equal at their par value to the penal sum of the bond; or
2. Certified or cashier's check, bank draft, Post Office money order, cash, assigned certificate of deposit, assigned savings account, blanket bond, or an irrevocable letter of credit equal to the penal sum of the bond.

VII. TERMS AND CONDITIONS

- A. If a bond is required, it must be furnished before approval of the plan of operations.
- B. Information provided with this plan marked confidential will be treated in accordance with the agency's laws, rules, and regulations.
- C. Approval of this plan does not constitute certification of ownership to any person named herein and/or recognition of the validity of any mining claim named herein.
- D. Approval of this plan does not relieve me of my responsibility to comply with other applicable state or federal laws, rules, or regulations.
- E. If previously undiscovered cultural resources (historic or prehistoric objects, artifacts, or sites) are exposed as a result of operations, those operations will not proceed until notification is received from the Authorized Officer that provisions for mitigating unforeseen impacts as required by 36 CFR 228.4(e) and 36 CFR 800 have been complied with.
- F. This plan of operations has been approved for a period of _____ or until (mm/dd/yy) _____. A new or revised plan must be submitted in accordance with 36 CFR part 228, subpart A, if operations are to be continued after that time period.

VIII. OPERATING PLAN ACCEPTANCE

I ___ / We ___ have reviewed and agreed to comply with all conditions in this plan of operations including the required changes, modifications, special mitigation, and reclamation requirements.

I ___ / We ___ understand that the bond will not be released until the Authorized Officer in charge gives written approval.

Signature of Operator

Signature of Authorized Representative

Date mm/____dd/____yy ____

IX. OPERATING PLAN APPROVAL _____

(Name)

(Title)

Signature
of (Authorized Officer)

Date mm/____dd/____yy ____

Burden and Non-Discrimination Statement

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0022. The time required to complete this information collection is estimated to average 12 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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As I wear a BLUE USAF “hero hat”, should I call that toll-free number and cry color discrimination by the RED Hot Tempered mad hatters who want to be known as “super patriots” who a few years ago invaded Oregon horseback and held up a John Birch/Sagebrush Rebellion/Branch Davadian prayerbook to TV cameras, pretending it was the Constitution that showed US Mining Law of 1872 rights do not matter?

For those that do not understand the legal process, and the required professional terms of the what and why of filing the above Form FS 2800-5a Plan of Action is perhaps best explained it was is often referred to as the “ultimate” US Forest Service handbook” on what it means to file an almost “net-zero surface disturbance’ environmentally sound proposal that has no conflict by proposing going underground from one grandfathered-in quarry to another.

A practice employed by Unimium competitors use in Norway is that, unlike most mines, the

uniformity of the in-place tonnage does not require a tailing dump to separate ore into different values for market purposes.

Again, for a full understanding of why the previous “Ghosting” of this Plan of Action was WRONG, click the cover here of the very well done US Forest Service PDF — [Anatomy Of A Mine From Prospect To Production](#)— as a source for underground/surface mining land management engineering partnership.



United States
Department
of Agriculture

Forest Service

Intermountain
Research Station

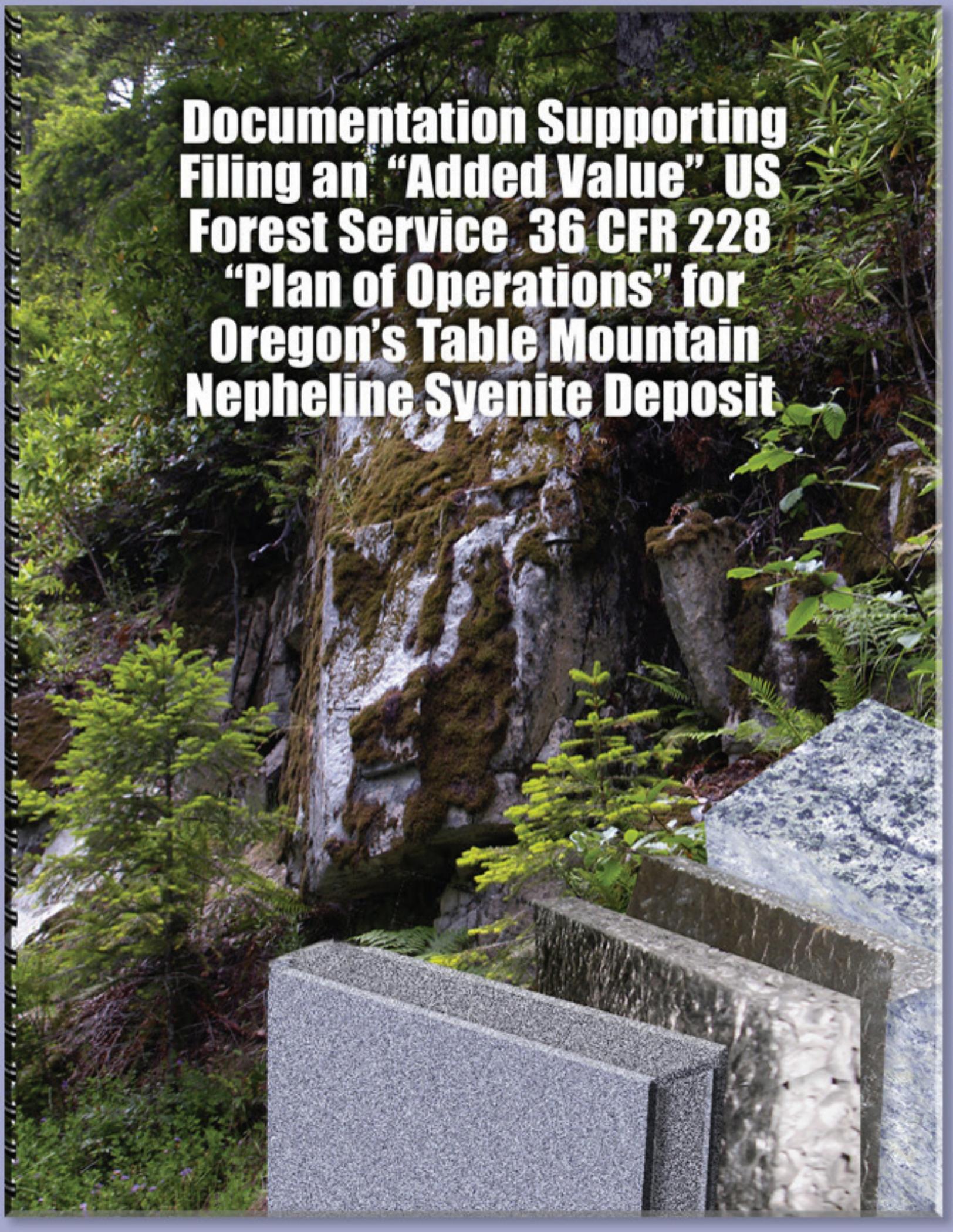
General Technical
Report INT-GTR-36
Revised

February 1996



ANATOMY OF A MINE FROM PROSPECT TO PRODUCTION





**Documentation Supporting
Filing an “Added Value” US
Forest Service 36 CFR 228
“Plan of Operations” for
Oregon’s Table Mountain
Nepheline Syenite Deposit**

This was to be Part B of the complete document for the formal filing of a USDA Forest Service **Form FS 2800-5a**, which is an update to the already permitted block of claims. This as a “**Why**” deals with the predecessor “added value” requirement on § 228.42 **Uncommon Variety of mineral rights** on un-patented Mining Law of 1872 claims.

WW

The Added Value Importance of the Simple Synergistic Chemistry In an Analysis of Oregon’s Table Mountain Nepheline Syenite

By Barry Murray, Claim-holder Nepheline # 1 through 32

When it comes to managing difficult to understand and control scientific development in a free enterprise situation, some big boardroom business “engineers” and “profit only accountants” need to think nano creative to truly understand the economics of the big picture.

Why? Because some small start-ups are the only ones that seemed to have listened to Asperger’s Syndrome Albert Einstein’s suggestion that, “everything should be made as simple as possible, but not simpler”. I just had a look at genius Elon Musk’s patent for a Tesla solar roofing tile, and this fellow Asperger’s syndrome handicap for being an adventuring in simplicity made me laugh until I almost choked.

Case in point between management not understanding the simplicity of synergy funding could be Xerox™. They rose to fame out of a photo paper manufacturing business, Haloid, by developing the plain paper office copier. When I was stationed in a super secret Cold War photo intelligence unit in London before the U2, I worked with the “low-cost bidder-winner” Haloid’s better than Kodak contrast rating, but the applied chemistry was so spotty, we lost many man hours, and local Pounds for having to replace what was burned for the sake of security.

And then, Haloid Xerox, through the distraction of a stunning Wall Street success, their backward looking management entirely missed the obvious next step transition to electronic paper. Moreover, through dominating the market by suppression, Xerox™ ignored or doubted their own research documentation that they actually already owned OOPs software that worked by simply locating the X and Y on a computer screen.

Something the start-up Asperger’s syndrome kids Steve Jobs, and Billy Gates, of a Home-brew Computer Club, learned through a visit to the Xerox PARC research facility in the now very famous Silicon Valley corporate blunder.

The disgruntle Asperger’s syndrome inventor of the mouse — all but nameless today— had

been let go by management for not being bottom line jelly bean cost-conscious counter. Proud of their work, he simply opened the doors to share the “insanely great” wealth of understanding of something different.

No wonder Steve of an incomplete education, addressed a graduating class at Stanford with a “being the richest man in the cemetery does not matter to me. Going to bed at night saying we have done something wonderful, that’s what matters to me”.

This philosophy followed an earlier Apple TV commercial, of; “Here’s to the crazy ones, the misfits, the rebels, the troublemakers, the round pegs in the square holes... the ones who see things differently -- they’re not fond of rules... You can quote them, disagree with them, glorify or vilify them, but the only thing you can’t do is ignore them because they change things... they push the human race forward, and while some may see them as the crazy ones, we see genius, because the ones who are crazy enough to think that they can change the world, are the ones who do”.

I suggest as a Polymath / Asperger’s syndrome smart-ass author, complete with the incomplete education AsS initials following my name on pseudo academic papers, as this, that investment due diligence actually requires reading a lot of hard to understand and boring papers. Sorry, but it takes more than 280 characters to reach valid breakthrough decisions. So:

A Wordy Misfit’s Added Value Calculations

To my way of thinking exploring the required “added value” of Nepheline Syenite is not a waste of words when explaining why FoamKrete™ is not afraid of battling what could be called a world wide cartel for a “added value” market share of an affordable house building material.

Something I plan to deliver in enough quantity by myself, and small “buy the ton” investors and ECO minded friends, is an all-natural nano mix of Alumina powder and an Alkaline Silica Sand cement admixture — FoamKrete™ — with a very competitive price/value difference over conventional family homes through helping in the development of ECO Villages, as dreamed about on my ECOhousingofAmerica.com. Perhaps by even being modeled after a Pacific Northwest CO-Ply, or REI CO-OP, to make housing affordable to “members” once again.

Consider how AAC cement suppliers today —all of five sources available in the US offering what they consider the equivalent of FoamKrete™ —have so gotten into the engineering of proprietary copper steam heated Automatic Autoclave Concrete machines used for curing preformed panel factory units, that they too have overlooked the obvious next step.

Which is happening right now overseas, with China being the first to computerize the 3D printing of affordable housing, following Pakistan and India developments of the same Table Mountain chemical family mixture of “AAC” delivered as CLC, or Cellular Light Concrete to a building site for after-mixing and pumping through a flexible hose into an aerating nozzle.

Another happy happenstance “of thinking simple” is what is happening with CLC “Nepheline Cement” in Pakistan, India, and the Middle East where simple duct-taped cardboard forms, laying on the ground as are being used with cellular light-weight concrete tilt-up walls. The only real difference from AAC construction, is fluidity.

Russia, with the most significant deposits of Nepheline Syenite in the world, also has been making breakthrough strides in the “printing” of \$10,000 affordable housing units with a con-

crete formula noted for its solid strength, for not containing common variety aggregates, as ordinary gravel, and oversized rocks as a filler making voids.

And, for that matter, by of not having to comply with out-of-date building codes that demand re-bar reinforcement. This, even when the proof being published today suggests that this time-honored safety standard is lessening the longevity of a dense concrete wall.

In some countries without a natural supply of Alumina Oxide (Al_2O_3) or the magic Alumina Powder, and a Silicon Dioxide (SiO_2) Silica Sand, other means of organic bubble activation reaction are used, including pumping in air to achieve a 'foamcrete', which really has no chance of competing against the real thing when it comes to the PSI strength of a true Nepheline volcanic fly ash flume.

Or, the unique qualities of a true Class One Wildfire rating of four-hour resistance up to 3,000 degrees, and earthquake, sound, tsunami, and flash-flood "protection" building material that also has one of the highest "R" value available in a global climate changing World.

What has been shown in Asia that has a limited supply of Nepheline Syenite for admixture use is that any so-called proprietary formula out of Europe of a naturally occurring ore can be reverse engineered back to designated natural chemicals which cannot be patent protected any more than basic limestone and beach sand concrete, in this new inventive cement extender known as FoamKrete™, which plans on selling volume at a fair market price to make housing affordable once again.

There is no scarcity need to protect over the extreme exploitation of supply and demand to whatever the market will bear. FoamKrete™ — a non-patentable formula by nature which from a legal standpoint does not have the right to exclude others from using what really is a Trade Secret. With 500 Proven unique tons, and ten times that as Indicated for being at the top sill of an Oregon plutonic batholith, AKA FoamKrete™, the location alone will meet or beat any multi-national FOB price offered for physical product, over that of paper promises.

Either way, or what the designation, China has been selling a Nepheline Syenite very similar to the Table Mountain chemistry for \$250 per ton, as valued in USDs. Reverse engineering that chemistry market price in an attempt to win a trade war depending on location, location, location others cannot win, breaks down as follows:

1> The USD price of precipitated Silicon Dioxide (SiO_2) is on-line researchable at \$600-800 / per ton.

As a "soluble Nepheline silicon" used at 59 percent of the necessary AAC secret formula volume, makes the Table Mountain deposit being worth is no less than \$354 per -325 metric ton if that were not already included, at no extra cost in the natural bundle.

Please use this rock hard fact to counter "concrete industry financial experts" discounting the science of AAC /CLC concrete building materials relying on added (SiO_2) as "re-manufactured fly ash", with absolutely no document-able published papers in their rebuttal.

2> Market price of the totally scientifically recognized AAC/CLC secret of soluble Alumina Oxide of (Al_2O_3), or Alumina out of Australian bauxite that has been ranging from \$322 + per metric ton, for 400,000 tons a month delivered to China.

As the acceptable AAC percentage formula of 5% – 8% Alumina by volume, out of an ore that assays a higher 19.35% than the Chinese bulk FOB price, calculates out to be worth \$64.40 per

metric ton.

A \$64 per ton figure, alone, is well under the handling costs of a “free for the recycling” dangerous coal fly ash, which as a carbon product may catch on fire and explode.

As the projected Oregon Table Mountain production costs of “gravel pit” drilling, blasting, crushing, grinding, and delivery to a nearby railhead and barge dock is a minus \$100 per ton(?) FOB product. The costs increase of going underground are factored into a safe to meet estimated \$150 per ton FOB by the bag wholesale market price

This happenstance itself may have serious consequences on what global building industry cartels might have to say about stifling competition. On the West Coast local readily soluble natural raw material source of alumina and silica can almost pay for itself through a savings on shipping cost alone.

The established advertised world-wide market price of \$250 per ton, FOB China, for the exactly same chemistry as shown elsewhere in FoamKrete.com documentation. The eastern Canadian / Norwegian price per ton is harder to document as the imported product is hidden behind brand numbers on a bag in support of “scarcity” being used to control an increased free market price. I have seen it for sale for \$300 per ton on a markdown sale.

Researching Russian documentation on the worlds largest Nepheline Syenite was even more difficult. One window on the Baltic was a library in Estonia that suddenly found itself free after the breakup of the USSR.

One recent find helpful to me was that I came across a white paper in English — *Evolutional Development of Alkaline Aluminosilicates Processing Technology, by Andrey Panov, Sergey Vinogradov, and Svyatoslav Engalychev* that openly explained how Russia and China have become the leader in 3D printing of houses, through other Nepheline sources in Russia, and in other counties, of a “*lower quality (Al₂O₃ 19–22%, which is my range) and their processing results in more cement produced per tonne of alumina*”.

The added value of an all natural —un-patentable—minus 325 Nepheline AAC / CLC powder, does not reflect what value, and purpose, the other Table Mountain Nepheline chemicals may have in the very new developing science of CLC 3D concrete printing, or thin film solar “smart” silica rooftop use which also harvests clean rainwater.

3 > Calcium Oxide (CaO) US \$210-250 / Ton @ 1% assay value = \$2.10 per ton. CaO (s) + H₂O (l) Ca(OH)₂ (aq) (Hr = 63.7 kJ/mol of CaO) as it hydrates, an exothermic reaction results and the solid puffs up. One liter of water combines with approximately 3.1 kilograms (6.8 lb.) of quicklime to give calcium hydroxide plus 3.54 MJ of heat energy. This process can be used to provide a convenient portable source of autoclaving curing a pump-able foamed cement. According to Wikipedia, “the free encyclopedia,” calcium oxide has for a long time been is a key ingredient for the process of making cement as a natural pozzolana for setting underwater concrete in dams.

4 > Magnesium Oxide (MgO) US \$160-260 / @ .02% = \$3.20. Again, according to Wikipedia, MgO is one of the raw materials for making Portland cement in dry process plants. And, it is a known “super cement” strengthener.

6 > Potassium Oxide K₂O US \$850-950 / Metric Ton @ 4% = \$34. Here Wikipedia refers to “some materials of commerce, such as fertilizers and cement, are assayed assuming the

percent composition that would be equivalent to K₂O.” I have not figured out yet the advantage of K₂O in what I am now calling Nepheline Cement, as my next project is to work on a totally greenhouse project complete with hydro-phonic gardens.

7 > Sodium Aluminum Oxide (Na₂O) US \$1417-1584 @ 12% = \$170. Again, going to the Internet the Digital Fire ceramics materials database explains that the generic name of all of the above bundle of chemicals associated with Na₂O happens to be Nepheline Syenite.

8 > Titanium Oxide Nanoparticles (TiO₂) US \$1450 per ton. I am not even bothering to calculate the overall value of the Table Mountain natural, includes all, value of a TiO₂ assay of 0.15 to 0.19, beyond the potential end use in sunscreen?

However, a white paper just released to the public explaining how TiO₂ contributes to concrete performance in *High Strength Non-Autoclaved Aerated Concrete*. See link, below. I have no idea where team members Victor Cary, Kelsey Doolittle, Sally Lin, Daniel Lizardo, Stephanie Marzen were reporting from, or why, but I think their addition of 0.05 wt% of TiO₂ resulting in a conservative 200% strength increase, well worth proving. Especially when dealing with local outdated building codes requiring re-bar, which lately is being discouraged by other scientists that feel the chemical reaction dates the life span of ordinary dense concrete.

Add up all the AAC/CLC chemical mix — except TiO₂ which I have not yet had time to play with, if purchased separately elsewhere— and mixed together in some sort of violation of somebody’s European only patent (?), and you come up with a figure of \$595.30 per ton, which sort of explains the outrageous price on-line out of China selling a “gas extruding aluminum paste and powder for aerated autoclave concrete / AAC that sells for a USD 2.6 - 3.5 /Kilogram, with a minimum order of 1 ton.” Use any on-line kilogram to pound converter and USD 2.6 per kilogram works out to be an amazing \$2,600 per metric ton?

As the natural chemical mixture, already bundled, as found in a uniform 500 million tons of Nepheline Syenite —see the professional geological, mineralogical, and economic value reports, referenced in Part B of this filing. In the 1973 *State of Oregon Environmental Geology of Lincoln County Report featuring Economic Mineral Resources* (as linked in Part B of this “Plan of Action” has a statement was made referencing the value of the Table Mountain jetty stone, roofing gravel, and rock wool at, “\$15 per ton in today’s market.”

From my 60 years field experience in minerals exploration verifying length x width x depth of ore deposits, measured in \$’s per ton, I, as a prudent man tend to favor the conservative. As by cutting that 700,000 million to five hundred million, due to possible conflicts with a small holding of a “fee simple” private timber company next door, that actually holds no underground mineral rights on their School Land Grant section.

And, cut that in half again to 250,000 million mine-able tons by room and pillar methods underground. I have also considered that dropping to a very low industry standard of \$10 per ton in-place real estate price for a potential gravel quarry, and the same \$10 per ton for a large disseminated micro gold mine that is only economical as a open pit/chemical leach pad disaster.

So, \$10 in-place it is, for now (as long as the discounted price flows through ECO-Mining-Milling and FoamKrete distribution to affordable housing) which by itself is, if I have the commas correct, 2.5 million tons times \$10 per ton = \$ 2.5 billion ??? Room enough between \$10 ton and the China \$250-ton price, to pay a privileged State of Alaska mining claim style 3%

royalty, after the first \$3 million in production. So, to help the USFS, and BLM, State of Oregon, Lincoln County and villages fight climate change wildfires and flooding, FoamKrete™ will be paying back a totally righteous 10% “tithing” above and beyond taxes and use fees to help neighbors recover from “unexpected catastrophes” as global warming.

Besides this, I personally will have a part in setting a wholesale price for FoamKrete™ Distributors outside the County to help prick the balloon bubble of affordable housing that has created a homeless crisis.

Some More Tap Dancing to the Yada-Yada- Yada Shuffle

On YouTube search for AAC/CLC success stories of building houses of “Autoclaved Aerated Concrete”. Then broaden that search to include more recent pump-able, on-site CLC Concrete construction with a natural pozzolana volcanoclastic fly ash chemistry, instead of the Class F by-product of burning coal in tall stacks that do not scrub the hydrocarbons being emitted into clean air.

If it also bothers you just a bit how far behind America is in “green living” then use these Internet further search phrases to find a Spanish “fully-customized, modular solar house is 3D printed prefab,” or “Dutch architects to build world’s first 3D printed apartment house,” to find where to order CLC mixers and pumps in Vietnam, India, and of course, a China that copied what was manufactured in Europe, that really let a lot of “trade secrets” disappear into public domain.

What makes the Shanghai WinSun Decoration Design Engineering “ten houses in one day, at \$5000 each” project really interesting to those concerned about the environment is that the Chinese recycled old concrete, into new, by chipping up what would have been landfill, or burned. At the last moment of mixing a standard cement they added a minus 325 super fine (soluble) Alumina powder at a rate of 08% by volume, and a (soluble) 60% silica content as an aggregate.

China has been importing alumina powder extracted from bauxite in Australia at the cost of \$300 per ton. The Russians used their Nepheline Syenite alumina powder to build airplanes during WW II; they also are the most advanced in Nepheline research for things as catalytic converters, and clean air steel fluxing.

The problem in coming up with those figures for an American deposit is that the “magic stuff” used as an expansion agent has almost been considered a “top secret” by foreign corporations and countries.

They were not very happy when NephelineSyenite.com, and www.Nepheline.com, ran a picture of the Table Mountain, Oregon, material that had been polymer foamed—testing Russian technology supposedly protected by a patent for a shape? which expires in twenty years— into poly snap-together building blocks.

There also has been a patent filing in Europe— and only covering Europe— that demands protection of the composition of autoclaved aerated concrete, which curiously includes basalt(?) mineral wool for a binder as part of the formula?

Moreover, speaking of rock wool, there is a Danish patent for a “Nepheline briquette” used in the process of melting rock at a temperature of 1600°, through which a stream of air or steam is blown to spin a cotton candy like insulation. The only American made product is pink spun

fiberglass that is only half as efficient as Nepheline wool in thermal insulation.

So — at last, a conclusion— that for the 500 million ton, plus, and a US Table Mountain Mining Claims deposit being a “lessor Nepheline Syenite” should also pass along a birthright benefit to US tax payers instead of flowing through the Toronto Stock Exchange for tax benefits.

For years Russian, Belgium, and Canadian distributors have discounted my figures as second-class chemistry for the manufacturing of clear glass and white China-ware used in bathrooms. What does making toilets has to do with an a “value added” advantage of being the perfect natural mix for a “Nepheline Cement”? Everything.

Now I have a Russian paper — *Evolutional Development of Alkaline Alumunosilicated Process Technology* ... “whereas there are other Nepheline sources in Russia and in other counties of lower quality (Al₂O) their processing results in *more cement produced per tonne of alumina*”.

Thank you. I will be selling one bag of FoamKrete™ at about the same price as a bag of Portland cement to replace by expansion the traditional five bags of dense cement. To one, plus one.

A a curious reason offered for wanting to undercut established prices was not too long ago, anti-free trade, dumping of Canadian Nepheline Syenite closed down a struggling, higher quality, feldspar quarry at Kings Mountain, in the Carolinas.

Ironically, my Murray mining family history dates back to the 1750’s Carolinas (gold) and Georgia (a bauxite project?) starting out as an indentured servant (for only seven years), who was sold off of the same trading block as other slaves the English nobility (who like to sing we will never, ever, be slaves) flogged off to a lifetime of suffering as a way to set up the future time-bomb as the ongoing(?) U.S. Civil War.

I know this really doesn’t fit into this application. But, as a Celtic (with an ancient Queen Boudicca talent for all things mining) and the Revolutionary War patriotic circumstance of my having three Scottish-American great-something grandfathers who helped defeat the hated English redcoats in a lopsided American victory that set up the Patriots winning at Yorktown.

The revenge battle cry at our Kings Mountain was to “Remember Culloden” for not giving quarter as 2,000 Highlanders were slaughtered, versus 300 Redcoats dead. The cost of English arrogance on Kings Mountain was paid when Americans only lost around 28 killed and 68 wounded, whereas British losses numbered around 225 killed, 163 wounded, and 600 captured — who were not murdered, or sold off in indentured servitude.

I am sure some of the Redcoats who released returned to try to destroy another three members of my highland “over the mountain” family again during England’s forgotten War of 1812 of secret plans to cripple America.

But, again, “the crowns” folly was to attack Celtic “dirty shirts,” as the British called the Americans Tennessee volunteer soldiers during the Battle of New Orleans. This was another time for revenge for Andrew Jackson who also had no love for the English, as he’d spent time as their prisoner during the Revolutionary War. Just as my Braveheart FREEDOM fighter Sir Andrew de Moray had been imprisoned at the Tower of London. The revenge score, again, was a lopsided 2000 Redcoats, to less than 100 Americans.

The reason this history is in a explanation of added value, is since beginning work developing the Table Mountain Nepheline Syenite, out of necessity as none of the major players wanted to make an offer to a “hillbilly” individual claim-holder, I have been under a very sneaky hack

attack through my www.MiningMagazines.com, for First Amendment opinions I dared to express on www.TheProspector.com, www.MiningInvestment.com, www.TheMiningInvestor.com, www.DiversifiedInvestments.net, etc.

Apparently, from pinging back on the spam overload denial of service web stats, who were not Chinese, Russian, Ukrainian, but north of the border “flaming English LIBOR tweets, and TSX 43-101 masters of the pump-and-dump” — the centuries-old battle continues.

My challenged Internet defense from some very competitive international adversaries hiding behind the skirts of a no-tariff free trade to practice their trade-craft of dirty tricks, is to simply prove the beauty and truth of a simple scientific “this is how it works” as expressed

I, as an “Mining Law of 1872 Prudent Man” individual will not lose this “trade war” with a multinational organization that feels the price of scarcity is justified as best way to maximize profits, vs, the genius attitude of an incomplete educated AsS (or Asperger’s syndrome) WW2 concrete genius Henry J. Kaiser, whose fellow AsS Jobs like motto to add value to any project, with a “Find a need and fill it.” There is an absolute demand for an affordable housing building material for the delivered product from Table Mountain, marketed as FoamKrete™. I intend to stick around long enough to build some affordable housing!

This is why I am responding to USDA Forest Service Area Mining Geologist, Ruth Seeger, wanting professional documentation; and USDA Forest Service Siuslaw Mining and Minerals Administrator, Robert Ginn’s pointed questions and suggestions made at a “meet and greet” a few years ago, with what may seem an information overload.

Sorry, it has taken me so long, as a former freelance photojournalist whose success with placing articles in national magazines was to transport myself into a “temporary expert” mode to comply with accuracy standards as LIFE Magazine editor’s three dot system before publishing.

When starting to filling out a simple form FS-2800-5, I found it necessary to attach reports, university-level thesis, legal citations, real website news, and this white paper supporting an added value in the almost unique chemistry, definitely not common variety, of Table Mountains’ Nepheline Syenite.

The following PDFs available to the reading public intact, are a small part of what has been studied for propriety use, only. And yes I admit to being a little intimidated, a few years ago by a threatening call from a room full of lawyers on speaker-phone wanting to challenge this photo-journalists source of information. Thankfully I was able to cite the volume and page number of a well respected Canadian mining magazine.

And thankfully, after winning that exchange by asking in jest, “How many lawyers does it take to dial a so-called smartphone?” I began to wonder what their interest was in my holding onto what was a grandfathered \$2 per ton in-place jetty-stone quarry.

It took five years following what research I could afford —one international market study that cost \$5000 only focused on Nepheline with less FE than mine in clear glass production. Follow what the Chinese were doing in concrete gave me the reverse engineering breakthrough lead of following the chemistry.

This was a fun learning path (“if you are not having fun, quit”) following independent professionals answering three questions.

1) WHAT EXACTLY IS THE FINANCIAL ADVANTAGE OF AERATING A FOAMED CONCRETE?

001) AUTOCLAVED AERATED CONCRETE AS A GREEN BUILDING MATERIAL

By Stefan Schnitzler, October 2006, University of California, Davis Extension.

This was the first reference I stumbled across concerning the magic of *Alumina Powder* and *Silica Sand* expanding:

“Autoclaved aerated concrete is a precast product manufactured by combining silica (either in the form of sand, or recycled fly ash), cement, lime, water, and an expansion agent — aluminum powder, and pouring it into a mold. Once added to the concrete, the aluminum powder reacts with the silica, resulting in the formation of millions of microscopic hydrogen bubbles. The hydrogen bubbles cause the concrete to expand to roughly five times its original volume. The hydrogen subsequently evaporates, leaving a highly closed-cell aerated concrete.

Autoclaved aerated concrete is further considered a sustainable building product because of its excellent insulating qualities resulting in increased energy efficiency. AAC’s thermal efficiency stems from three factors. First, AAC structures result in solid wall construction with integrated insulation. Entire wall coverage prevents the thermal bridging associated with conventional stud framed walls, which leaves cold gaps around every stud and header.

Second, the solid wall construction of AAC structures creates an airtight building envelope, minimizing uncontrolled air changes while helping maintain desired indoor temperatures and maximizing the efficiency of HVAC equipment.

Third, AAC structures benefit from the added value of thermal mass and low thermal conductivity of a “effective” or “mass-enhanced” R-value of about 21.8.

AAC is inorganic, noncombustible, and virtually fireproof. It receives a 4 hour UL fire rating and has a melting point of over 2900 degrees Fahrenheit.

AAC buildings can be engineered for earthquake and hurricane-prone areas, and such buildings have performed well to date. For example, the vast majority of AAC homes in the 1995 Kobe, Japan earthquake survived substantially undamaged. They also were immune from fires started during the earthquake and even acted as firebreaks. The ability of AAC structures to withstand fires and natural disasters minimizes waste, contamination to the surrounding environment, and the need for repair materials, while also lowering insurance costs.” [Full Text....](#)

002) AN INTRODUCTION TO AUTOCLAVED AERATED CONCRETE INCLUDING DESIGN REQUIREMENTS USING STRENGTH DESIGN

By Eric Ray Domingo. B.S. Kansas State University, 2008

The only other US white paper I could find. And it is marked with a copyright protected sym-

bol. This is where I have to apologize to the author my “fair use” synopsis. And the full source of a university paper presented here as evidence in what really is a legal document. Eric. Good job, and if you are looking to continue Nepheline Syenite R&D, let me know.

“Autoclaved aerated concrete (AAC) is a lightweight concrete material that was developed in Sweden approximately 85 years ago but only recently, as early as 1990 in the Southeast, has it been used or produced in the United States (www.gostructural.com). It is a lightweight building material that is easy to build with, has great thermal properties, and can be easily produced from locally available materials. AAC is commonly found as masonry block units or as larger planks that can be used as wall components or as roof or floor components . (

AAC has a high percentage of air making up its volume and the materials that are used to make it can be recycled from waste AAC material. Recycled AAC can be ground up finely and can be used as the aggregate in the new mixture. Also, the energy that is required to produce AAC is much lower than other masonry products (www.eaaca.org). This report details the history, physical properties, manufacturing process, and structural design of AAC. This report includes an explanation of the 2005 Masonry Standards Joint Committee (MSJC) Code for the design of AAC members subjected to axial compressive loads, bending, combined axial and bending, and shear. An example building design using AAC structural components is provided. This report concludes that AAC has important advantages as a structural building material that deserves further consideration for use in the United States.

Currently, in the United States, there are two producers of autoclaved aerated concrete. Xella Aircrete North America Inc. (Hebel) has plants located in Texas, Georgia, and Mexico as well, and AERCON is located in Florida (www.aacpa.org). The annual production of AAC in the United States is not currently available, however, the annual production capacity of the largest North American producer of AAC (Hebel’s Georgia Facility) can produce approximately 2.7 billion cubic feet (250,000 cubic meters) per year (www.xella-usa.com). [Full Source....](#)

003) UTILIZATION OF ECOSAND AND FLYASH IN AERATED CONCRETE

By Keertana. B, Department of Civil Engineering, Karpagam University, India

From here-on, the research white papers I could pass along came from everywhere but the United States. This, from the Department of Civil Engineering, Karpagam University, Coimbatore-641021, Tamilnadu, India. I appreciated the idea, and simplicity of my SiO₂ being recognized as an **Ecosand**. And that **Geopolymers** also gain strength very quickly as well, obtaining 70% strength within the first three to four hours of production.

“Besides insulating capability, one of AAC’s advantages is its quick and easy installation since the material can be routed, sanded and cut to size on site using standard carbon steel band saws and drills. AAC is well known as environmentally friendly construction material. The production process emits no pollutants and creates no toxic waste products.

Lightweight concrete has its obvious advantage of high strength/weight ratio, good tensile strength, low coefficient of thermal expansion, waste utilizing, heat preservation, noise insulation characteristic, and energy saving, as well as good absorbability of impacting energy due to air void in lightweight aggregate.

Autoclaved concrete can develop to be high strength concrete and good absorbability of impact energy. It has a lower modulus of elasticity and higher tensile strain capacity further provides better impact resistance than normal weight concrete. [Full Text..](#)

004) EVOLUTIONAL DEVELOPMENT OF ALKALINE ALUMINOSILICATES PROCESSING

By Andrey Panov, Sergey Vinogradov, and Svyatoslav Engalychev

Abstract: Alkaline aluminosilicates are of significant interest for metallurgical and chemical industries. They are widespread in countries like Russia, USA, China, Canada, Venezuela, Mexico, Iran, etc. and can present a viable alternative to bauxites. Complex and waste-free alkaline aluminosilicates processing technology into alumina, soda ash and cement was developed in VAMI institute in 20th century from idea till successful realization at several industrial facilities in Russia, operating till now with competitive production cost of alumina. Russian Alumina refineries are using feedstock with unique high alumina content (Al₂O₃ 26–28%) whereas there are other Nepheline sources in Russia and in other countries of lower quality (Al₂O₃ 19–22%) and their processing results in more cement produced per tonne of alumina. An economical beneficiation technology has been developed that opens the possibility for more efficient industrial processing of comparatively poor aluminosilicate raw materials in Russia and the rest of the world. [English Text....](#)

What a shame the processing of poor aluminosilicate raw materials (FoamKrete™) results in more cement produced per ton of Al₂O₃ alumina. And thanks for putting a competitor on the map.

2) WHICH 'FLY ASH' POZZOLAN IS BEST FOR AAC/CLC PUMP-ABLE CONCRETE?

005) THE RIDDLE OF ANCIENT ROMAN CONCRETE

By Dacid Moore, P.E. Retired Professional Engineer Bureau of Reclamation, 1995

Abstract: The riddle of ancient concrete consisted of two studies: one was understanding the chemistry, and the other was determining the placement of ancient concrete. To understand its chemical composition, we must go back in time much before Moses. People of the Middle East made walls for their fortifications and homes by pounding moist clay between forms, often called pise work. To protect the surfaces of the clay from erosion, the ancients

discovered that a moist coating of thin, white, burnt limestone would chemically combine with the gases in the air to give a hard protecting shield. We can only guess that the event of discovering pseudo concrete occurred some 200 years before Christ when a lime coating was applied to a wall made of volcanic, pozzolanic ash near the town of Pozzuoli in Italy. A chemical reaction took place between the chemicals in the wall of volcanic ash (silica and small amounts of alumina and iron oxide) and the layer of lime (calcium hydroxide) applied to the wall. Later they found that mixing a little volcanic ash in a fine powder with the moist lime made a thicker coat, but it also produced a durable product that could be submerged in water something that the plaster product of wet lime and plain sand could not match. To explain this chemical difference we must examine the atomic structure. Common plaster is made with wet lime and plain sand. This sand has a crystalline atomic structure whereby the silica is so condensed there are no atom holes in the molecular network to allow the calcium hydroxide molecule from the lime to enter and react. The opposite is true with the wet lime pozzolan contact. The pozzolan has an amorphous silica atomic structure with many holes in the molecular network. Upon mixing the wet lime with the pozzolan, the calcium hydroxide enters the atomic holes to make a concrete gel that expands, bonding pieces of rock together. The fine powder condition of the pozzolan provides a large surface area to enhance chemical reaction. We find parts of the complex chemistry of the ancient concrete bonding gel matching the same chemical formula of modern concrete bonding gel. So the pozzolan wet lime gel gave permanence to the ancient concrete. [Full Newsletter Article.](#)

I did find in my a compilation of university level papers proving many original findings that led to even more curious questions that follow, as to what (AS) really was compared to ordinary, lower grade fly ash.

SCIENTIFIC INSTITUTE OF THERMAL INSULATION, DEPARTMENT OF BUILDING MATERIALS, VILNIUS GEDIMINAS TECHNICAL UNIVERSITY, VILNIUS, LITHUANIA —

Abstract: Investigations of Forming Mixture Parameters of Autoclaved Aerated Concrete with Nano additives “Amorphous” SiO₂ (AS) is a very effective pozzolanic material. As an aggregate, AS powder is in particular suitable for modern building industry. It was used at construction since 1994 in New Zealand and with each year its usage grew. AS is a by-product of ferrosilicon and silicon metal production and can be used in shape of very fine powder [1]... In production of concrete with AS, the pozzolanic reaction is ... decreases conductivity of water and water vapor and increases strength and life of concrete [3]...

And how it was revealed that AS was the real “fly ash pozzolina” in sea water Roman Cement, used a long time before the invention of re-bar. Or, explaining how it is that a lightweight “smart” concrete is actually stronger, better, cheaper, than the “dull and dense” concrete many associate with a concrete “jungle scene” of parking structures, sewage treatment facilities, those islands in

the sky of unfinished freeway interchanges. But, more import to the bottom line of using a flammable dirty coal based substitute.

006) TO IMPROVE TODAY'S CONCRETE, DO AS THE ROMANS DID

UC Berkeley News, June 4, 2013

AN EARTH-FRIENDLY ALTERNATIVE PARAGRAPH: While Roman concrete is durable, Monteiro said it is unlikely to replace modern concrete because it is not ideal for construction where faster hardening is needed. But the researchers are now finding ways to apply their discoveries about Roman concrete to the development of more earth-friendly and durable modern concrete.

They are investigating whether volcanic ash would be a good, large-volume substitute in countries without easy access to fly ash, an industrial waste product from the burning of coal that is commonly used to produce modern, green concrete.

“There is not enough fly ash in this world to replace half of the Portland cement being used,” said Monteiro. “Many countries don’t have fly ash, so the idea is to find alternative, local materials that will work, including the kind of volcanic ash that Romans used. Using these alternatives could replace 40 percent of the world’s demand for Portland cement.” [Full News Release Text....](#)

COAL ASH IS MORE RADIO ACTIVE THAN NUCLEAR WASTE

By Mara Hvistendahl journalist in sync with reporter Leslie Stahl of CBS's Sixty Minutes]

Over the past few decades, however, a series of studies has called the stereotypes into question. Among the surprising conclusions: the waste produced by coal plants is actual more radioactive than that generated by their nuclear counterparts. In fact, the fly ash emitted by a power plant—a by-product from burning coal for electricity— carries into the surrounding environment 100 times more radiation than a nuclear power plant producing the same amount of energy.

3) WHY IS NEPHELINE CEMENT, WITH LESS MATERIAL, SUPERIOR IN STRENGTH?

And how it was revealed that AS was the real “fly ash pozzolina” in sea water Roman Cement, used a long time before the invention of re-bar is actually stronger, better, cheaper, than the “dull and dense” concrete thought of as “cold.” Now, getting into “proparity stregnth trade secrets” we are getting into delectate territory when it comes to such things as:

007) MECHANICAL ACTIVATION OF NEPHELINE CONCENTRATE BINDING CEMENTS

B. I. Gurevich, Institute of Chemistry of Rare Elements Academy of Sciences, Russian, 2013

Abstract—Binding properties of a Portland cement–Nepheline–water formulation were studied in relation to its Nepheline content by using a preliminary mechanical activation. A thermal analysis was used to estimate the hydration rate of cement phases in the system under study. The accelerating role of Nepheline in hardening of mechanically activated Portland cement–Nepheline formulations was revealed and found to be more pronounced in early stages. The gain in the strength of the cement stone was analyzed in relation to the formulation composition and hardening duration.

link.springer.com for \$39.95

008) HIGH-STRENGTH STRUCTURAL LIGHTWEIGHT CONCRETE

No authors cited for what is an excellent paper / informative sales tool for HPCC panels that I would love to work with.

Synopsis — High-Performance Cellular Concrete [HPCC] has all the properties of cellular concrete and can achieve 55.37 MPa [8,000 psi]. Higher strengths can be produced with the addition of supplementary cementitious materials.

In conventional concrete, the percentage of sand in the aggregate is 30% to 40%. However, the foamed cement of this process/invention is preferably mixed with an aggregate having a higher ratio of sand.

Preferably in the range of 40% to 50%. This reduces or eliminates voids in the concrete mixture, since gaps between larger rock particles may be filled with a combination of smaller rock, sand, and air bubbles. The smaller the spacing factor, the more durable the concrete will be.

[The LightConcrete LLC Paper](#)

009) HIGH STRENGTH NON-AUTOCLAVED AERATED CONCRETE

By Victor Cary | Kelsey Doolittle | Sally Lin | Daniel Lizardo | Stephanie Marzen

Now, getting into “proprietary strength trade secrets” on an MIT paper(?) were perhaps we are getting into delectable territory when it comes to such things as optimization of TiO₂ the :

Abstract: Traditionally, aerated concrete is autoclaved in order to achieve the high compressive strength necessary for structural use. While the high temperatures and pressures from the autoclaving process give rise to crystallization and thus high compressive strength, the process is extremely energy intensive. Eliminating autoclaving would save significant energy, but other methods would need to be employed to maintain good compressive strength. Thus, the project goal is to develop a form of concrete with a high strength-to-density ratio: low density for high materials efficiency and high compressive strength with the elimination of autoclaving.

In this paper, we will discuss our final prototype: a nonautoclaved aerated concrete that boasts higher compressive strength than previously developed nonautoclaved concretes through the optimized additions of 0.05 wt% titanium dioxide (TiO₂) and 0.05 wt% sodium alginate. Our prototype also exhibits low density, consistent foamlike structures and is cost efficient.

Further research on raising prototype strength may be warranted. Aerated Concrete A new

direction towards advanced construction techniques using High-Strength Lightweight Cellular Concrete in the development of concrete in building and civil engineering construction. [A Good Read](#)

010) TECHNICAL-CERAMICS-FOR-MILITARY-PURPOSES

By Benedette Cuffari

So, since this exercise in published knowledge was to establish that FoamKrete™ was stronger for conventional homebuilding (even without re-bar) what else can I say than, “Hey. Are we building a tank, or just an ordinary bullet proof house?”

This is seriously beyond the scope of FoamKrete™. But, this paper has me thinking about the next best things, as:

1) Forming a foam ECO container home, complete with a smart solar rainwater harvesting roof, that would fit (when needed to be transported) on one of the new mid-sized electric delivery trucks I will be experimenting with in of my Biz Plan of action?

2) And what if the 80% bubbles material, that floats, was foamed into a boat hull that would bounce off a hidden reef without a scratch? [Take a look at AZoM.com Limited ideas.](#)