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PRELIMINARY OBSERVATIONS
PHALAN PROPERTY

VESTALEE URANIUM & THORIUM CORP.

J. H. WREN & CO.

CONSULTING MINING ENGINEERS

4297 - D - STREET SACRAMENTO, CALIF. PHONE HILLCREST 6-0922

FOR ACCOUNT OF :

December 7, 1955

Vestalee Uranium And Thorium Corp. ATT'N. : Mr. Lee W. Southam, President.

Three days field time, Dec. 1 through 3rd \$50 per day	\$150.00
Office mapping	25.00
Pro-rated milage (part of trip charged to another account enroute to field work).	40.00
Map printing charge paid.by.JW	12.65
Telephone calls	14.35
COMPANY OREDIT:	\$848.00
Overpayment of Nov. 14 bill	2.57 20.00 28.57
Balance now payable	\$219.43

INVESTOR'S REPORTS
EFFICIENCY STUDIES

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2660 0015

J. H. WREN & CO.

CABLE ADDRESS WRENCO CONSULTING ENGINEERS

PHONE HILLCREST 6-0922 4297 D STREET SACRAMENTO, CALIF.

VESTALEE URANIUM AND THORIUM CORPORATION
REPORT OF THE PHALAN LODE MINING CLAIM
GROUP, KINSLEY MINING DISTRICT, ELKO
COUNTY, NEVADA.



J. H. WREN & CO.

CONSULTING ENGINEERS

CABLE ADDRESS WRENCO

November 12, 1955

PHONE HILLCREST 6-0922 4297 D STREET SACRAMENTO, CALIF.

Mr. Lee W. Southam, President Vestalee Uranium And Thorium Corporation, Geneva Finance Building American Fork, Utah.

Re.: PRELIMINARY OBSERVATIONS RECARDING
THE VESTALEE URANIUM AND THORIUM
CORPORATION'S PHALAN LODE MINING
CLAIM GROUP, KINSLEY MINING DISTRICT
ELKO COUNTY, NEVADA.

Dear Mr. Southam :

As per your request a preliminary examination was made of the Vestalee Uranium And Thorium Corporation's Phalan lode mining claim group operation in the Kinsley Mining District of Elko County, Nevada.

The following outline covers existing physical conditions, present position, recommendations and estimated economic potential based upon opened mineral areas and available technical information.

LOCATION :

The Phalan Lode Mining Claim Group is located in the Kinsley Mining District of Elko County, Nevada some nine miles South Easterly from Boone Springs, Nevada.

Road accessibility to the property from alternate highway #50 is excellent. Two roads, each about 12 miles in length approach the project from highway #50. In view of the very good access, crude ore or concentrate haulage costs should enjoy, if contracted out, a minimum per ton mile charge.

Weather conditions are such to allow an all year operational schedule.

PROPERTY EXTENT :

The property consists of six patented lode mining claims; Kerong, Daisy, Deseret Bank #2, World's Fair #2, Rose Towsly and the Marble Foint. Herein included is a plan of the above mentioned claims' orientation.

It is suggested to locate several additional claims in the company's name adjoining side and end lines of existing holdings as a matter of protection against anyone locating from a standpoint of nuisance value. This can be done with very little cost.

CAMP SITE :

The Vestalee Corporation has rehabilitated the Phalan Camp and now has adequate housing to take care of immediately scheduled mine and mill operation.

Camp roads have been rehabilitated and are in good state of repair.

EQUIPMENT:

Present mining and surface equipment is adequate to fulfill the near future development and production schedule in the Phalan Shaft area.

Herewith included is an inventory of operating machinery.

GEOLOGY:

Under separate reporting detailed geological conclusions will be presented as a result of the present mapping campaign now in force.

In general limestone is the host rock with mineral occurrence along favorable beddings, influenced by fissure control and associated granitie intrusives. Mineral occurrence has been proven consistent by marketable ore production in several individually separate zones having a Northerly bearing on strike of the limestone beddings.

DEVELOPMENT:

Five areas were inspected during the writer's recent visit to the property. Following please find a recommended alignment for each area as well as present existing position.

#1 AREA (Phalan Shaft);

Major rehabilitation has been accomplished by the present management. A surface plant has been set up and is kept in orderly condition by supervsion. The surface plant consists of compressor, installation and housing, shop building, hoisthouse, headframe and production hoisting facilities. The Phalan Shaft has been completely reconditioned and is in good state of repair. A production storage ore bin has been built and connected to shaft haulage.

DEVELOPMENT:

#1 AREA, (Phalan Shaft), Continuation :

a). Several hundred feet of old exploration and development exists on the 100' level of this area. Scheelite and copper mineralization is in evidence in the old workings. During the period that the original development was driven scheelite was a non-marketable mineral. The exploration aims of the original operators, reportedly, were to develop copper and gold.

Long hole drilling of this level's favorable ground as designated by geological mapping conclusions, no doubt, will bring in additional ore to swell out the known ore zone's available production tonnage.

b). A shaft collar level has been run Northerly from the shop building where it is reported some 200 tons of 1% scheelite ore has been extracted from the entry and a winze sunk about 30° below the level. There is still excellent grade of scheelite ore in the winze bottom with a width of about 7°.

In-order-to build up a milling inventory ahead of mill construction, it may be advisable to sink this winze another 20 feet and then strip out economic W 03 tonnage which can be trammed directly to the mine production bin.

There is a good possibility that this zone will tie into 87° level mineral ofcurrence and the lower portion of the ore shoot can be mined from the lower level. However, by immediately producing from the winze and then running on ore to the Northerly and Southerly shoot end immediate inventory value will be built up to offset mill construction costs. Without any copper calculation 20 tons per day of 1% W Oz rock from this zone would produce a gross inventory addition of \$1,260.00 @ \$63 per unit. 80% recovery which should be the lowest possible with both gravity and flotation in the mill would amount to \$1,008.00 per day being built up in recoverable values. If The metallurgist, Mr. Rosenhan can do 90% in recovery the figure will be \$1,134.00 from this one zone alone, per day.

c). The 87° level has been entirely run by Vestalee Uranium and Thorium Corporation as well as the shaft rehabilitation and operating equipment installation. This level is serviced by an ore pocket for ore storage to be loaded out for hoisting. Some 173° of exploration and development entry has been driven as well as sectionalized steel long holes have been drilled on exploration bearings.

A plan of this level is herewith included. This plan shows the location of some 30' of economic grade ore with a minimum 6' average width that has been opened up to the face in the Northerly drift, earrying Ag. Mo. Cu and W 03 values. Ore was still continuing in the face during the mapping 11/3/55. Three sets of conservative samples a), face, 1/2 distance from chute, and the chute back carried in excess Of 40 gross

PHALAN LODE MINING CLAIM GROUP - 4 -:

DEVELOPMENT:

#1 AREA (Phalan Shaft). Section "c)" Continuation:

value, per ton produced.

d). Another mineralized zone has been designated on the 87' level by sectionalized steel long hole exploration out of the Westerly fork of the level. Some 12' of mineralized zone showing Cu, Ag, and W 03 values was drilled across.

e).Recommendations :

It is suggested to drive the Northerly development on the ore strike. At the present time for each vertical foot on the basis of the horrizonal x-section of area proven 18 tons of ore is represented. The gross value of that tonnage represents some \$720. Consequently ore reserve inventory will be raised to some considerable extent by further drifting on the mineral occurrence.

It is suggested to raise above the production chute in the opened ore occurrence. This will produce economic grade tonnage while the block is being developed above the 87° level. For example: By driving the drift 30 additional feet Northerly on the ore and raising 50° up the dip the horrizonal cross secrion would be doubled. The raise would projectingwise account for about 1800 tons of ore or \$72,000 gross value of the cubics on the basis of the zone's opened ore character.

It is suggested to drive to the proven mineral in the exploration hole out of the Westerly fork of the 87* level. by development of this zone additional milling reserves can be produced.

The 100' level of the Fhalan Shaft holds excellent mineral occurrence potential. As soon as convenient, after the geological maps have been compiled and sections made, some very favorable new ore possibilities will be present.

It is suggested to stockpile all broken ore production ahead of the proposed mill's location. By placing in the mine bin and gravity loading out trucks a mill stockpile can be ramped up to furnish plant capacity when the unit commences operation. Added to this tonnage will be the ore that has already been stockpiled on the Phalan Shaft dump.

It is suggested to "grab" sample each car from every round in both the 87' level raise and the Northerly drift advance. By taking one handfull at ramdom out of every car loaded out of the round and labeling it as a sample an accurate assay map can be compiled for future production reference and economic estimating of the block's value.

PHALAN LODE MINING CLAIM GROUP - 5 - :

DEVELOPMENT . Continuation :

#2 AREA:

a). Number two area's shallow shaft, near the camp site, and Northerly drifting has proven the occurrence of excellent grade scheelite ore. The occurrence is in one of the strongest North-South mineral breaks on the property. The zone has already produced a limited tonnage of plus 1% W 03 ore.

b). RECOMMENDATIONS :

Drive Northerly on the mineral occurrence. In view of potential widths this area could deliver a volume filler product for treatment plant capacity. As little as .50 % W 03 in volume from this location would be highly profitable production.

Collar a long exploration hole on the Easterly side of the North drift in such manner to drill across the very good scheelite showing on the West rib. Angle the hole to reach out some 25' ahead of the present face. It is suspected that economic grade ore will swell as certain points into pods of economic widths.

Some surface holes can be drilled along the mineralized zone's strike. By setting up to the side of the break in the lower contours, drilling Westerly at about a 45° downward angle with use of a water swivel to flush the hole out, much area can be charted in advance of the underground development.

#3 AREA :

a). Number three area is only partly opened up. The work has been done entirely by the Vestalee Company. Some minor copper-scheelite tonnage has been produced out of an open pit which carried good mineral values.

b). RECOMMENDATIONS :

It is suggested to move overburden off of contacts of limestone-intrusives with the bulldozer in vicinity of #3 area. Favorable areas can be spotted at night with use of an ultra-violet lamp. Strip zones will be designated by scheelite bearing float. Contacts should be exposed and overburden stripped over a 50' width on the limestone side.

PHALAN LODE MINING CLAIM GROUP: 6:

DEVELOPMENT, Continuation :

#4 AREA :

- a). The number four area is opened up by a drift some 160° in length with one raise and a short winze which has produced direct shipment grade crude oxide Cu-Ag ore. There is also a shallow shaft near the drift portal which has produced shipment grade ore.
- b). Sulfide ore commences at a point six feet from the end of the drift. A sample of this ore taken 11/2/55 showed a gross value of \$28.17 per ton in Ag. Cu and W 03 values.

c). RECOMMENDATIONS :

Sulfide ore near the drift face indicate that the primary mineral zone has been encountered. In view of the assay value it is suggested to drive on the strike of the sulfide ore.

This particular zone is quite adaptable for "Split Check Block Leasing". In view of the company's scheduled development and production in the #1 and #2 areas which will tie up the present machinery inventory, a team of leasors with their own equipment could expedite the exploration and development of the #4 zone. The usual procedure is for the "leasors", who are actually block leasees, to produce ore from a designated area at 100% their own expense. The ore is delivered to the mill bin. The company mills the ore at its own expense and the gross returns are divided equally.

#5 AREA :

a). Number five area has produced direct shipment grade crude Cu-Ag ore. Very probably as the drifting progresses into the North sulfide ore will be encountered. Very definitely sulfide ore will be encountered at a greater downward course on the mineral occurrence. A character sample of direct shipment oxide crude showed a gross value of \$25.81 per ton in form of Au. Ag and Cu values.

b). RECOMMENDATIONS :

This zone is another likely "Block Leasor Area". Leasors could make direct crude ore shipments to either McGill or the 'arfield, Utah copper smelter with a split check payment on the net-to-the-mine-bin returns. The company would benefit by the leasors activities by means of having the area opened up without cost and show a slight profit as well. The leasors incentive would be that if they kept their shipment ore clean and produced any reasonable volume, their income would be considerably better than wages.

DEVELOPMENT SUMMARY:

Several additional mineralized and prospected zones on the Vestalee Uranium And Thorium Corporation's Phalan holdings are in evidence. However, the writerdid not scrutinize those areas.

Generally the series of Northerly-Southerly bearing mineralized breaks have all produced economic grade ore. The croppings are highly leached and practically all of the surface development has been in oxide minerals. Some justification is present relative to projecting the 87' level sulfide ore occurrence an additional 200' downward by the primary ore showing in the #4 area adit. That sulfide ore is over 200' vertically lower than the 87' level in elevation and the mineral trend is still quite strong downward. Consequently, it is eafe to forecast that the Phalan Area's mineral trend will go at least 200' deeper and possibly much more depth is expectable.

As the various N-S mineralized zones are drifted out on a Northerly bearing the possibility exists whereby particularly enriched zones will be encountered at the intersections of E-W, N-S breaks.

The proposed treatment plant's capacity being some 25 tons should present no problem regarding available mill rock. Four zones are now opened from which production tonnage is available. The Phalan area's Northerly strike should furnish the initial milling tonnage until other blocks have been silled off for production.

Aspects of economic outlook, however, is dependent upon the construction of an efficient treatment plant in-order-to capitalize upon the full potential of the property. The sulfide ares are complex having Au, Ag, Pb, Cu, Mo and W 03 values. Mr. Rosenhan's metallurgy which he reports is favorably worked out, is the translation "key" regarding concentration, product separation and marketing to advantage.

MILLING :

Mr. Al A. Rosenhan, Metallurgist for the Vestalee Uranium And Thorium Corporation under separate heading herein has delivered a metallurgical report concerning the technical phases of the treatment, mill construction and operating economics.

Settlement sheets of crude ore marketed illustrate the vital requirement of a company owned treatment plant. It will be noted that scheelite was paid for at a reduced price from the \$63 market, custom milling charges were added, and aside from W O3 no other contained elements were paid for. The freight alone to a custom plant would pay for the company milling charges with plant amortization added.

EXPECTABLE ECONOMICS :

NOTE:

The following operational cost and income breakdown is presented as a possible example. Subsequently, a complete and detailed evaluation of available tonnage, grade, mill heads and mill recovery will be issued. This report can be compiled as soon as the presently in force mapping and assay charting campaign has been finished.

According to some of Mr. Rosenhan's mill test work findings, the following mill recovery is based upon a 90% recovery ratio. The subsequent economic report will qualify estimated recovery ratio on the basis of factual, itemized technical conclusions.

In-order-to arrive at a gross value per ton figure for the following example, the average grade of Vestalee Corporation assays, shipments, etc. would gross at \$50 per ton or better. For that reason the example of possible expectable economics has been set at a \$50 per ton level.

The milling capacity is calculated at 25 tons per day. At the present time more than 25 tons would not allow complete insurance in view of production development now available against capital risk hazard. However, at some subsequent date mill capacity may be enlarged at will if the first milling phase is so aligned. The crushing equipment for instance should be of more capacity than the presently proposed 25 ton plant will call for. Acquirement and installation costs for greater than a 25 ton crushing capacity would not be very much more, if any, than a straight 25 ton setup.

As added insuance against capital risk, a milling plant constructed at the Phalan roperty of the Vestalee Corporation would have additional available ore tonnage than that at the company's holdings. A number of nearby mines cannot operate as a result of no treatment facilities being available without prohibitive haulage costs to custom markets. Their position is exactly the same as Vestalee's at present. An economic grade of ore is represented in mine faces but by hauling, treatment charges, penalties, and receipt of only a portion of the quoted market prices a profit cannot be made, without concentration and separation before marketing.

The feeding of a 25 ton plant in regard to ore availability at the property seems quite simple in view of the number of ore sources. For example: One five foot wide by 7.5' high by 5' advance in sections like the present Northerly 87' level heading will produce 17.04 tons. Two such rounds per day would supply full mill capacity requirements. When the area is silled off for stoping two miners can produce the full milling complement out of a shrink section.

PHALAN LODE MINING CLAIM GROUP - 9 - : EXPECTABLE ECONOMICS : Continuation.

Underground estimated cost and recovery breakdown.

Example based upon \$50 gross value of recoverable ore minus mill loss and assumed marketable minerals treated on a 25 tons per day schedule. Direct costs do not include amortization of capital investment or concentrate marketing charges. The costs do include operating insurance and operating overhead.

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Expectable net income from open pit areas will be greater than the above in view of lower mining costs involved.

Upon the assumption of a 25% deduction factor for amortization, taxes and concentrate marketing costs the above \$21,971.25 would result in an overall operational net per 27 day month

In the event that mill capacity is ever increased by justification brought about through additional ore reserve being developed mining charges will be reduced by less overhead reflection per individual production ton.

Phalan Lode Mining Claim Group: 10 -:

REQUIRED CAPITAL INVESTMENT :

In order-to carry out the steps necessary prior to the possible income listed in "EXPECTABLE ECONOMICS" the following movements are required:

UNDERGHOUND

#1 Area's Collar Level Winze production.

#1 Area's 87' Level 30' additional drift footage, 50' raise in ore above ore loading chute. Hookup and drifting out ore cubics. Silling off and stoping preparation in the North Drift ore strike.

#2 Area's rehabilitation, drifting on ore and exploration drilling.

#3 Area's opening up and ore stockpiling.

#4 Area's Northerly drifting on the sulfide zone.

#5 Area's block leasing setup.

GENERAL:

One additional portable compressor will be required.

Misc. tools and equipment to back up the production aims.

Cost estimated for the two above items.... \$10,000.00

MILL CONSTRUCTION:

25 ton capacity treatment plant Const., machinery procurement, etc......... 30.000.00

75 K W diesel-electric plant..... 4,000.00

WATER !

Drilling well, pipe line to mill and camp including pumping equipment...... 3.000.00

847,000.00

The above required capital figure seems reasonable in view of the fact that it may be possible to recover the invested capital requirement within 90 days after milling commences. Without the plant and above facilities selective mining of shipment grade ore from which only part of the minerals are paid for would result in a dangerously low margin for the operation to work on.

A respectable portion of the above capital would be on inventory in form of stockpile prior to starting the mill.

PHALAN LODE MINING CLAIM GROUP - 11 - :

SUMMARY:

Construction of a company owned treatment plant seems to be mandatory in-order-to realize an efficient economic margin.

The herein listed additional development work will produce inventory ore while the mill is being built to offset new capital investment.

Mr. Rosenhan's metallurgy will be the "key" to milling recovery of the various marketable minerals in separated form.

A completely detailed economic outlook will be possible to compile after the assay maps have been made. Then positive tons, probable tons and possible tonnage may be coordinated with Mr. Rosenhan's metallurgical potential. Thus an accurate and complete income picture will be possible to render.

Added to the assets at the Phalan Claim Group are the available tons of direct shipping grade ore at the company's Mispah properties.

Very truly yours. J. H. WREN & COMPANY

James H. Wren.

J. H. WREN & CO.

CONSULTING ENGINEERS

CABLE ADDRESS

WRENCO

PHONE HILLCREST 6-0922 4297 D STREET SACRAMENTO, CALIF.

METALLURGY

750 EAST 6400 SOUTH MIDYALE, UTAH

ARMIN A. ROSENHAN

URANIUM MINING and REFINING

PHONE AM 6-5439 Sept 11, 1955

		MILL TEST RI	EPORT	The Britain	
Test Sample For	Micris & S	mpliana (Vousia	Car minor)		40 lbs.
A	ssay Chemic	cal 🗈	Assay Rad	diometric 🔲	
URANIUM		LEAD		SILVER	
VANADIUM		TUNGSTEN	.60	NICKEL	
LIME		INSOLUBLE		ZINC	
IRON		CARBON		PLATINUM	
COPPER	27	THORIUM		rolymogram.	91
GOLD		RARE EARTHS			
REMARKS -					
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9/11/55

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pus, william come, including character and reason to will be about 35.00 per ton.

VESTALEE URANIUM AND THORIUM CORPORATION ASSAY CHEMICAL 150 LBS.

Mr. Southam:

By way of a report on composite samples of ore from your Vestalee property submitted to me, and mill tested for amenability to flotation and tabling with a view to separating for market, the minerals known as copper sulphide--copper carbonate, tungsten (as sheelite), and molybdenum. Also such gold and silver, as may appear in the ores.

Spectrographic analysis showed a considerable portion of the ores (21%) was composed of soluble elements. There elements have no market value, as there is insufficient quantity of any one kind to warrant treatment for saving them. These solubles were also detrimental to flotationar and tabling. As a result of research work on these ores, acid treatment was resorted to to clean and condition the ores for flotation and tabling. It was proved undesirable to crush ores and table to recover coarse sheelite. By so doing, valuable, and recoverable values in copper carbentate were lost; as were considerable values in molybdenum, which floats easily. Also with a view to simplifying the circuit, and using a minimum of equipment, the following

type of circuit was resorted to and excellent results obtained therefrom.

THUS: as follows: The ores are crushed and screened, preferably to 1/8 mesh, by conventional mill methods, and stored in bin as ball mill feed. As the values in this ore are generally not massive, but fine grained, fine grinding 150-mesh preferred, is necessary to release the granules of mineral-acid treatment also helps release minerals entrained or partly entrained by solubles. The resulting slurry is piped or launderedto the first a itator tank as a preferred density of 50-50 and acid added, not to exceed 5% by weight of the ore. Sulphide reaction with acid creates gas bubbles which act as a flotation reagent and as a result much of the molybdenum and copper sulphides comesto the surface as a thick scum. This scum can be immediately retrieved as by hand or mechanical means and the balance of the slurry thinned to 30-70 density and circulated through a series of flotation cells using conventional reagents, and recovered by conventional means. Molybdenum and copper may be retrieved together and then cleaned or retrieved separately by selective reagents.

Tungsten (as Sheelite) is recovered at the end of the circuit.
The clean ore will now table very nicely as fine as 300 mesh settling readily on the tables. The particular type of ore presented does not seem very favorable for flotation of sheelite. Bureau of Mines tests on similar ores did not give good reallts.

Acid waste liquor from this operation can be now precipitated for recovery of copper carbonate solubles and also silver and possible gold solubles, These are air dried to a smelter product.

Assays on heads, tails, and concentrates are shown on front page in spaces provided. Tabling at the end of the circuit gives a high recovery total including fine slimes. I had in mind a high grade ore, 40% to 55% sheelite for conditioning to 60% plus, in a separate conditioning operation.

ARMIN A. ROSENHAN

750 EAST 6400 SOUTH

URANIUM MINING and REFINING PHONE AM 6-5439

MILL TEST REPORT

Test Sample For Vesta Lee	e Uranium and Thorium Corpor	ration			150lbs.
Assay C	Chemical	ssay Rad	iometric [
URANIUM	LEAD		SILVER		
VANADIUM	TUNGSTEN		NICKEL		
LIME	INSOLUBLE	750	ZINC	The state of the s	
IPON	CARBON		PLATINUM		
COPPER	THORIUM				
GOLD	RARE EARTHS				70
REMARKS —					
<u>Heads</u>	Tailings			Products	
发 着。"是	BCONOMIC	<u>s</u>			
6 samples t	tungsten average .38	@ \$1.7	0	\$10.20	
6 samples	copper average 1.285	0 .3	8	9.50	
6 samples	nolybdenum average .12	.3	2 base	.64	
6 samples	silver average 2.68	g. 9 .9	0	2.00	
5 samples :	lead average .18	e .1	3	•39	
	FROBABLE VALUE OF ORE			\$22.73	
ALL THE	ABOVE FIGURES ARE BASE PRI	CE, SALT	LAKE SMEL	TER	- Triber
	SETTLEMENT.				

hgs.

750 EAST 6400 SOUTH MIDVALE, UTAH

ARMIN A. ROSENHAN

URANIUM MINING and REFINING **PHONE AM 6-5439**

MILL TEST REPORT

Test Sample For	t Lee Uranium and Thorium	Corporation 150lbs.
Assay	, Chemical □ Ass	say Radiometric 🗆
URANIUM	LEAD	SILVER
VANADIUM	TUNGSTEN	NICKEL
LIME	INSOLUBLE	ZINC
IRON	CARBON	PLATINUM
COPPER	THORIUM	
GOLD	RARE EARTHS	
REMARKS -		
<u>Heads</u>	Tailings	Products
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Ball Mi	.11 Maximum	•75¢
Acid		\$1.00
Reagent	s	.80¢
Precipi	tating chemicals	\$1.50
	тот	A L \$4.95

COSTS VARY AS TO READINESS OF ORE

750 EAST 6400 SOUTH

ARMIN A. ROSENHAN

URANIUM MINING and REFINING **PHONE AM 6-5439**

MILL TEST REPORT

Test Sample For Vest	ta Lee Uranium and Thom	rium Corporation	150 lbs.
Asso	ay Chemical 🗆	Assay Radiometric	
URANIUM	LEAD	SILVER	
VANADIUM	TUNGSTEN	NICKEL	
LIME	INSOLUBLE	ZINC	7到 领带了
IRON	CARBON	PLATINUM	100
COPPER	THORIUM		
GOID	RARE EARTHS		

REMARKS -

Heads

Tailings

MILL COSTS

Products

It is generally conceded that an average mill costs about \$1,000.00 per through ton. However, by purchasing good used materials, a 20 ton mill could be built for \$750.00 per through ton.

Each engineering company has a somewhat different way of figuring. I would say, between \$15,000.00 and \$25,000.00.



J. H. WREN & CO.

CABLE ADDRESS WRENCO

PHONE HILLCREST 6-0922 4297 D STREET SACRAMENTO, CALIF.

SAMPLE & SHIPMENT DATA

PURCHASE STATEMENT, Tungsten Ore Concentrate

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erial 213 lbs.	Producer's Lo	ot or Delivery Number.		
y: Tungstic Oxide	77 % won	Penalty	for under 60% WO ₃	
Phosphorous			ty for Excess	A CONTRACTOR OF STREET
Sulphur -	%5	s "		
Copper	% Cu	Cu ".	$\boldsymbol{u} = \boldsymbol{u}_{1} + \boldsymbol{u}_{2} + \boldsymbol{v}_{3} + \boldsymbol{v}_{4} + \boldsymbol{v}_{3} + \boldsymbol{v}_{4} + \boldsymbol{v}_{3} + \boldsymbol{v}_{4} + $	
Lead .	23 % Pb	Pb "	v - n	大块 1000年
Zinc	% Zn	Zn "	n . n	
	%		u u	
		S v seur Total D	eductions per Unit	
Pay per	Unit \$, less \$	产业位置 医多角型 (22) 高年		
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		Screening \$_	· · · · · · · · · · · · · · · · · · ·	
3 7 Up	grading \$ 6.00 -,	Sampling \$, Assaying \$	\$ 30 3%
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vance Payment	Grose Royalt	y to Become to	elen 942.80	
				\$ 1.00 0.00
	To Seller: Bol. Provision	nalFinal	Chk. No	\$
		this Sales-Purchase Tro	insaction. Seller Warrants une	encumbered ownership

NOTICE: On acceptance of final Settlement, please sign and return one copy to Consignee and/or Buyer.

Owner or Authorized Agent, Seller

Consignee and/or Buyer

Assay Report
Union Assay Office, Inc.
Salt Lake City 10, Utah

To: Minerals Engineering Lot 63

Con Serial 2013

August 29, 1955

Vestalee Lot 1 8-25-55

Lead Wet on Ore 2.60 Copper per Cent 1.02 Tungstic Oxide Per Cent 38.80 Per Cent No 0.159

250 # @ 38.80 = 4.8500 Units @ \$45.00 per Unit = \$ 218.25

Remarks " Invoice "

Charges \$ 12.50

COMBINED METALS REDUCTION COMPANY

Nest	alee Urani	um & Th	orium	Corporat	ion		k /. ₹	o City, Utah		***		
	sten Crude			Lot No.		Shippers L	nt No			Clea	15	
Received CM	RCo. 8-1	Jy se i ve B	. P	Quotations	Gold	9 4	Silver		l.sad		Zine	
Assays	and the second second	Ozs. Au.	Ozs. Ag.	76 Ph.	% Zn.	% Fo.:	% Insol.	W03	%	%	%	**
C.M.R. Oo. Shipper												
Umpire Gross		A					Van Service					
Settlement		Values Per	Jon					1 .38	Treatme	int .		
Biold Ship Lehe Zinc NO3	83.9%	@ @ @ @	35.∞		J1 159	Bare					6	500
grees Metal Pay Less Treatment Net Value Per 1	'on				11 159 6 000 5 159	Net True						900
Jaitties	9571		740		ot @ 2.19 Tons		To see No. 1		11	99 50 3 29 .0 00	22	4 82
	n,											
Tutol Wet Wei 3.31. 7 Me	gar loture	90	140	1					Total	Deductions	12 10	2 79

OLN

KE/rs

GETCHELL MINE INC.

Red House, Nevada

Custom Ore Settlement Sheet

Received of: Vestalee Uranium & Thorium Corp. Geneva Finance Pldc.	Date Rec'd 9-1-55			
American Fork, Utah	Shipper's Ma	ark		
	Lot No			
By GETCHELL MINE INC.				
Trucks weighing	30,540	Gross Lbs.		
1.0 % Moisture	14,860	Tare Lbs.		
0,64 % WO;	15,680	. Net Wet Lbe.		
7. 7615 Net Dry Tons	157	Moisture Lbs.		
4.967 Contained STU WO:	15,523	Net Dry Lbs.		
Pay for 80% contained STU WO, 3.974 at \$	4	₩ ****.		
LESS CHARGES:	- 16 57			
Treatment of 7.7615 Net Dry Tone at \$ 6.00	\$ 10.00			
Sampling & Assaying				
가게 하시고 있다. 그 사람들은 사람들은 사람들이 되는 것이 되었다. 그는 것이 되었다. 현실을 하는 것이 하는 사람들은 사람들은 것이 되는 것이 되는 것이 되었다. 현실을 받는 것이다. 그	\$	· 56.57		

GETCHELL MINE, INC.

Daily Assay Report

SAMPLE		PE	RCENT
NUMBER	DESCRIPTION	wo3	
	Vestalee Uranium-Phorium Corp. 1.0% M. 9-1-55 Ship.	0.64	
			
			200

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ing and the second			
			- A 3
		v.	,,,

DATE September 6,19.55

LABORATORY CERTIFICATE

research corporation

BOX 2555 TERMINAL ANNEX - LOS ANGELES 54. CALIFORNIA LABORATORY: 2565 BELGRAVE AVE., HUNTINGTON PARK, CAL.

Date Aug. 30, 1955

Mr. Armin A. Accemban Submitted By 750 E. 6100 South

Midwale, Utah

Lab. No. 8948-1 Reference

Markings Sulphuris Acid Product

	1					1
ELEMENT	NOT LESS	HOT MORE	ELEMENT	NOT LESS	NOT MORE	
Silicon Aluminum Magnesium Iron	Vejor Com 1.0 0.5 0.5	titient a	Barium Columbium Nickel Beryllium Molybienum	0.01	%	STORY THE STORY
Sediom: Potassium Tellurium	0.1	1.0	Yttrium Cadmium	0.003	0.03	***
Gold Boron Mercury Phosphorus			Copper Silver Tantalum Zinc	0.92 0.9093 0.905	0.1 0.003	
Lithium Thallium Lead Tin		6.05	Titanium Zircon jum * ; Palladium Rhodium	0.05	0.5	
Chromium Arsenic Antimopy			Ruthenium Cobalt Lanthanum			
Manganese Gallium Germanium Platinum Biamuth	0.002	6.01	Strontium Rubidium Tungsten Indium Uranium	0.4905	0.05	

- 1. Percentage ranges represent the probable concentrations of the elements found to be present.
- 2. Fire assay is the method of choice for Gold and Platinum group elements; general spectrographic techniques are limited to ore concentrations greater than one or two ounces per ton.
- 3. Spectrox hemical analysis is only one of several factors required for the complete evaluation of an ore sample; it should be regarded as a "Coarse Screen" used to estimate the advisability of additional study. Economic and minerological considerations are also necessary for a true appraisal of the specimen.
- (Special actention:

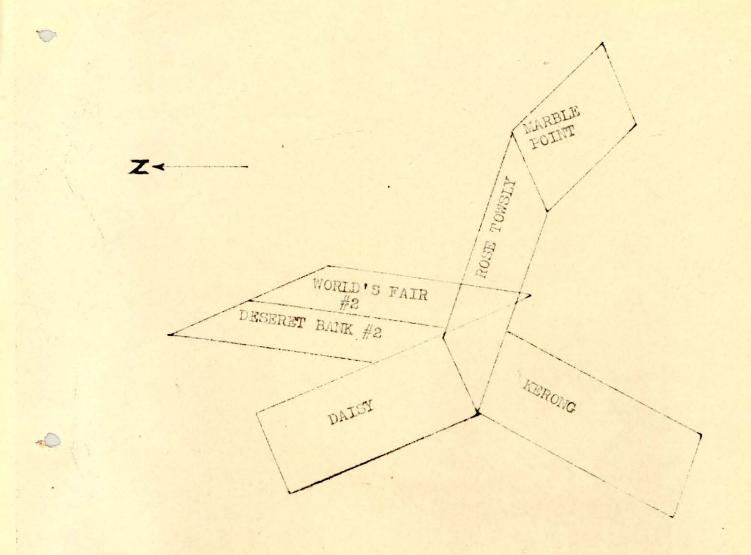
Respectfully submitted,

J. H. WREN & CO.

CONSULTING ENGINEERS

CABLE ADDRESS WRENCO PHONE HILLCREST 6-0922 4297 D STREET SACRAMENTO, CALIF.

MAPS



VESTALEE URANIUM & THORIUM CORP.

MINING CLAIM PLAN

KINSLEY MINING DISTRICT
ELKO COUSTY, NEVADA

Drift face 11/3/55 Full face economic grade ore. Commencement of economic grade ore. Exploration hole. 12' of Cu, Mo, W Og mineralization.

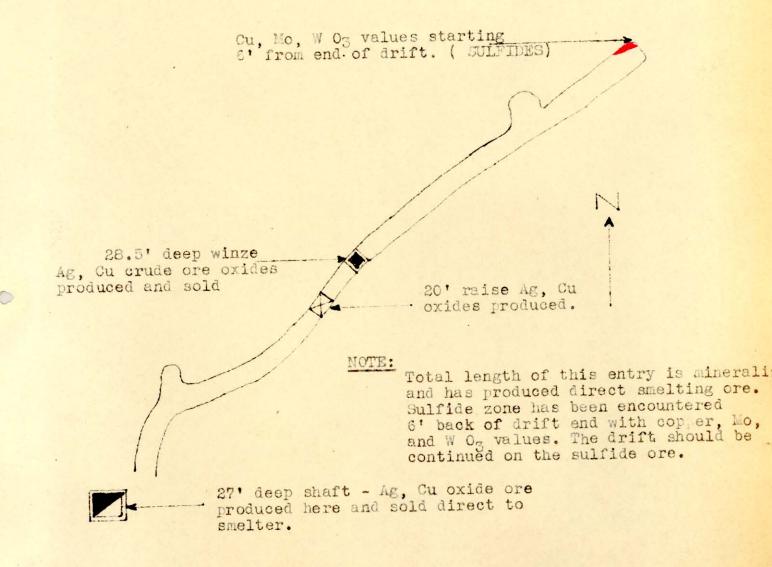
87' Level Phalan Shaft-

VESTALEE URANIUM & THORIUM CORP PHALAN SHAFT

87' LEVEL PLAN

SCALE : 1" = 20'

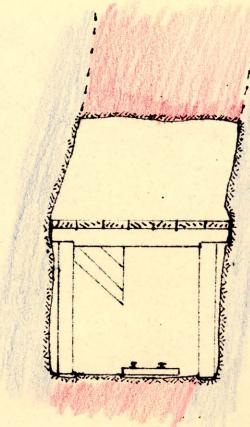
11/4/55 J. H. W.



VESTALEE URANIUM & THORIUM CORP. #4 AREA

PLAN

SCALE: 1" = 20'. 11/4/55. J. H.



E. - W. X-SECTION AT ORE LOADING CHUTE.

N. DRIFT FACE 11/3/55.

VESTALEE URANIUM & THORIUM CORP.

IHALAN SHAFT

NORTH DRIFT X-SECTIONS

DIAGRAMATIC

SCALE: 1" = 5'. 11/4/55 J. H. W.

R. R. CASTO M. GRISHON DRRIN FISHER HAROLD E. CUL CRISMON & NICHOLS ASSAYERS AND CHEMISTS PADN 3-7417 229-231 SOUTH WEST TEMPLE STREET BOX LOOK BOX 1708 REPORT OF ASSAY Oct. 5, 1955 SALT LAKE CITY, STAH. Vestalee Urantum & Thorium Corp. three WETHAVE ASSAYED YOUR them BAMPLES AND FIND TO CONTAIN AS FULLOWS: DZS. BOLD DZS. SILVER DESCRIPTION PER CENT ND. PER CENT PER CENT INSOL. PER CENT PER CENT VALUE OF GOLD PER TON PER TON LEAD COPPER ZINE PER CENT Cobal t IRON PER TUN Trace 2.00 4.40 0.04 Trace 8.10 12.06 Molybenum oxide (Moos) Trace Trace 0.37 REMARKE: 14.50 CRISMON & NICHO CHARGES &

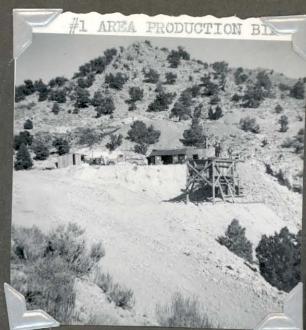
J. H. WREN & CO.

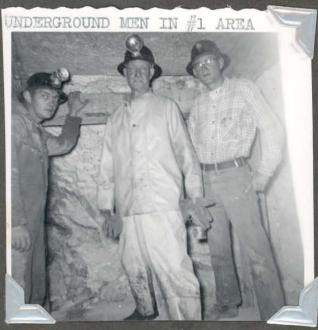
CABLE ADDRESS WRENCO

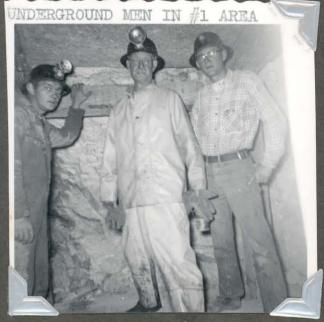
PHONE HILLCREST 6-0922 4297 D STREET SACRAMENTO, CALIF.

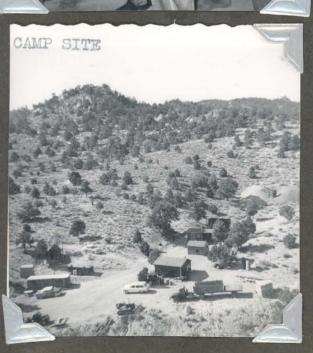
PHOTOS

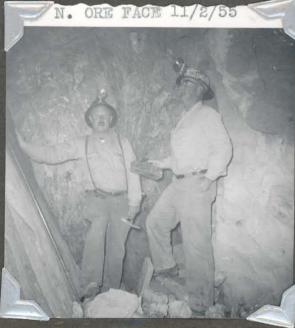


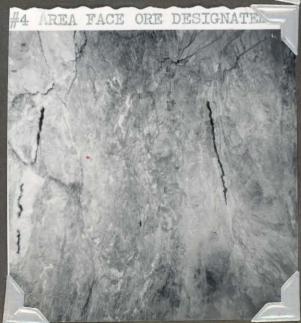




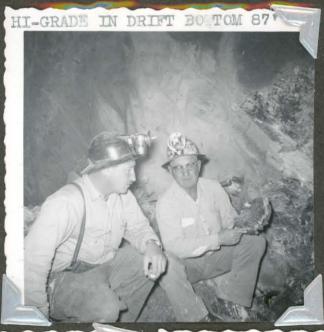


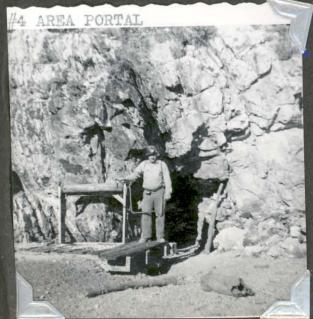














SCALL & SIFOOT STORAGE **在**上海河 河流流 A THE REPORT OF THE PARTY OF TH MOLYDERMUM CANAL PART MASHING TL MASTE FAMILY BOOK **第888 李688** CIDDE SHEELITE TABLINIS WOLFRANTE FILTER BATTOM TANK TO THE PROPERTY OF THE PARTY OF TO WASTE SIMPLE CINCULT FOR WERHING AND RESEVERY OF MOLYBDENDEN-COPPERSULCHIDES-AAROSENHAY ... MIDVALE ITAL AND TUNGSTEN 2600 0015