

CONTACT INFORMATION

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: UDALL

ALTERNATE NAMES:

SAFETY GROUP

PIMA COUNTY MILS NUMBER: 568

LOCATION: TOWNSHIP 20 S RANGE 10 E SECTION 15 QUARTER SE LATITUDE: N 31DEG 41MIN 17SEC LONGITUDE: W 111DEG 18MIN 24SEC

TOPO MAP NAME: ARIVACA - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

TUNGSTEN

BIBLIOGRAPHY:

RFC B-416

ADMMR UDALL FILE

ARIZONA DEPARTMENT OF MINERAL RESOURCES MINERAL BUILDING, FAIRGROUNDS PHOENIX, ARIZONA

July 15, 1958

To the Owner or Operator of the Arizona Mining Property named below:

Safety Group (Pima County)

Tungsten

(ore)

JUL 15 79 58

roperty which we would like to have

er's Report form with as complete detail rts, maps, assay returns, shipment returns us before and which might interest a

coperty.

Mr. C.E. Udall

Box 24, Ruby Star Rt.

Tucson, Arizona

Leceoud

FRANK P. KNIGHT, Director.

Frank P. Knight

Enc: Mine Owner's Report

ARIZONA DEPARTMENT OF MINERAL RESOURCES MINERAL BUILDING, FAIRGROUNDS PHOENIX, ARIZONA

July 15, 1958

To the Owner or Operator of the Arizona Mining Property named below:

Safety Group (Pima County) Tungsten
(Property) (ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

Frank P. Knight

FRANK P. KNIGHT, Director.

Enc: Mine Owner's Report

RETURN R CEIPT

| | Charles F: 20dal |
|------------|----------------------------------|
| | (Signature or name of addressee) |
| | Official and |
| | (Signature of addressee's agent) |
| D-4 £ J.7: | , <u>9-14-40</u> , 1940 |

OFFICIAL BUSINESS

REGISTERED ARTICLE

No.

INSURED PARCEL,

No.

(NAME OF SENDER)

Street and Number, or Post Office Box, or Post Office Box Office B

PHOENIX,

ARIZONA.

P Y Mr. J. S. Coupal, Box 24, Ruby r Rte., Via Tucson, 7/17/40

Soft Grown o P

Dear Sir:

ပ ၃

I am sending you some material by mail - viz - Statement or Report in Tungsten Property standing in my hands with full authority to dispose of as I elect. Title is perfect fought off all the California Crooks and Tucson Crook Lawyers thru two lawsuits for title during past 3 or 4 years - as the the copies of letter sent - I have use for same - possibly - so am enclosing stamps for return of same - as to map and statement, keep for reference, providing you consider wowthwhile.

Would be pleased to "reciprocate" if you can assist me in doing busines in any sensible plan, but refuse to tie up on cheap promises or fake contracts - especially with so, California Ex R. Estate Crooks - samples are entirely from float from placer, small black pcs. are from 9 ft. chunk of 60 -65% pure placer. Many tons of such quality has been gathered from the property in the past - present values are about 75% in 20 mesh, or finer material easily con. to 60 to 65% - pan or concentrate and extract Feo with magnet or mag. separator.

Values quoted are the lowest ever obtained from sampling by any enquirer or miner - have plenty of offers by cheap has beens and would be capitalists.

Yours truly

/sd/ Charles E. Udall.

О Р Ү

C

Property is for sale for \$50,000.-Lowest cash payment acceptable - 5,000.-Provided buyer will equip to mill 100 ton Man. daily.
Will accept 15% R. to apply on P. price.



C O P

Y

Prefer to obtain partner with \$25,000 for working capital on 50/50 basis. Could make him \$150,000-- inside 2 years. \$175,000 Net profit.

Will not allow anyone to put a lot of junk mchy, in the ground - had plenty of such fake offers -- /sd/ Charles E. Udall.

C O P

Box 24, Ruby Star Rte., July 22d/40

Mry J. S. Coupal

My dear Sir:

I am sending you some data on a lead silver mine with some gold - spotty in gold - The list of shipments probably is not over 50% of what I have shipped and some by leasers - Since Mr. Snyder copies some shipg. returns into a report he made. I can send in if desired but long and tiresome - I think -

Will mail you copies of one if desired - both shafts on No. 1 and No. 4 are caved below 50' levels - but No. 1 would be under water if not caved - from that level.

Title to property in writer and title is o.k. No adverses. (continued next page)

Charles b. Quall's return etc. Continued - Sheet a.

Property has no ore left in old stopes from 60'l. to near surface. However assays can be had, but cheap leasers have cleaned out anything of shipping grade in sight. We can crawl into levels and see where it came from, but the big ore bodies are "flat" or horizontal and all we have seen or removed are from uplifted fragments of the ore from about 135' in depth and probably 10 or 12 or more feet in thickness.

Will make any reasonable deal with party who will either sink a vertical shaft to 150° or if he prefers, drill the ground. South of incline in No. 1 - but prefer he sinks s. as wont last more than 2 or 3 drill holes and can start drifting in ore and shipping "pronto". Prefer a partner but will sell if I have to.

Can send a lot more data if needed but anyone interested had beeter come down here and look see. You know the old CC mine in the Arivaca Road - Box 24 - I am only 1500' west of my mail box. If interested party can get car in Tucson and come out - I am not in the hauling business so will not go after him and haul him back to Tucson or Boston.

Regards - /sd/ Udall.

The Black Princess group of lead silver mines are located in the Cerro Cologado

P mining district in Pima Co., Arizona, 18 miles west of Amado Station on the Nogares

Y branch of the S.P. Ry. - with good road to within 2 miles of property - and fair Kountry

road to the mines (the remaining 2 miles).

The formation is ideal to make large lead producing mines (with very good silver values and some gold in addition). Dynamic activities uplifted a very extensive stratum of quartzsite - trend e.w. - across about 1 mile of lateral extent - which quartzsite was buried beneath a rhyolite floor, until exposed by erosion of the rhyolite along its uptilted edge.

To the south and parallel to the quartzsite outcrop a series of extensive limestone magmas are exposed, also uptilted by rhyolite dykes along the northern edge of these, also, eastly and westerly - surface showings.

At one point, adjoining a n.s. faulting. Three separate strata of limestone are closely associated, altho their normal, nearly horizontal position, (in place) was around 100 ft apart in vertical depth, having been inter-stratified with eruptive floors - either rhyolite or andesytic porphyry.

The limestones were exposed on surface are much altered and heavily impregnated with iron and manganese, with some ribs of sebicous material, at times nearly solid quartz. The altered and mineralized limestone strata appear to be 1 to 20 ft in thickness and measure 14 ft (or more) as shown by a cross cut in a drift from an incline shaft, run at 60 ft below the surface (as measured down the incline) dip. s.

In this working and from 60 ft. to near the surface, the mineralized ore body is generally black being heavily impregnated with manganese and iron oxides. In this mass of ore low grade is silver and lead as samples only 4% lead to 18 oz. silver, occurred shingles of yellow carbonate of lead. (Cermssite) from 4" to 12" or more in width which shipped from 80 to 125 oz silver - 28 to 38% lead and \$2.00 to 5.00 per ton in gold. Very little Galena was mined, 10 tons in one shipment carried 160 oz silver and 48% lead gold \$4.50.

A drift in this ore body (E. from incline and on No. 1. claim) had considerable stoping done for 20 to 35 ft above the 60' level, always following streaks of carbonate ore of which a considerable tonnage was sawed out and sold to ore buyers.

Several carloads of ore were roughly selected from the waste pile and shipped when silver was \$1.00 per oz (after the war) which carriel 18 to 30 oz. silver (and probably around 4% lead). This incline was sunk to 120 ft. and 60 ft below water level - and entire shaft was in ore, width unknown - from 90 to 120' and entire content extracted was piled on the dump and sampled by several mining men besides the writer.

Charles E. Udall's letters etc. continued - sheet 3/

The character of the re had changed to massive angleste, red and brown, but by streaks of white to red clay 6" to 10" in thickness in which some balls of galena up to 8" in size, occurred.

The enite output of the shaft sinking, sampled on surface, gave 20 to 25% lead and 25 to 32 oz. silver - while the galena carried 135 oz. silver (and probably 60% lead). This incline is caved below the 60' level and the latter blocked with waste, adjoining the shaft, results of work by leases. Below 120' water could not be handled by small - (2" suction) steam pump.

Leaving No. 1 and proceeding to No. 4 - 3000 ft. west old workings had opened and extracted ore to some 50 ft. in depth. A new vertical shaft was sunk to 120 ft. and well timbered amd a cross cut run each N.&S. at 100 ft. level and just above water level. N. drift was 100 ft long and seeking an apparent quartz vein - about 120' n. of shaft - as shown by outcrop. S. drift cut a body of white clay 4 ft. thick and next to ore body - worked above apparently massive black iron, which was not even drilled, as water inflow from clay body drawned the workings, small stream pump unable to handle the comparatively small amount of water.

This shaft has been entirely lost on account of lending to a "cow man" whose jersey cattle were dying for lack of water in a small drought, and he and his cowboys immediately tore out new timbering, to make a platform for a pump - results, entire s. loft and timbers collapsed for 50 ft. - before owner discovered that the typical cow thief had naturely wrecked the property. Top of old surface stope shows vein of 4 ft in width, surface work (assessment) on n. side of same shows vein material is fully 20 ft. (or more) in width.

A shipment from old workings gave copper contents to be 5.5% with milver 26.60 oz. and gold \$1.20 (at 20.00 oz).

Extensive outcrops in the vicinity of this working have been dug into and gold assays up to \$11.00 obtained from selected ore. There is every evidence of very large ore bodies existing in this immediate vicinity and a new shift has been started and now down 40 ft. (situated 50 ft. s. of caved shaft) and which should penetrate the ore body at about 100 ft. depth.

About 600 ft. south of No. 4 in a parallel ore body, an incline is sunk to some 80 ft. in depth - entire shaft is in ore to a small drift at 60 ft. - ore carries silver and gold values with some lead and barytae. Below 60 ft. a slight faulting accurs and vein is left in foot wall. Assessment holes some 300 ft. west of incline, make good surface showing.

Opposite and south of No. 1 several tons of Henry Barytar, spotted with oxides and carbonate, was shipped by previous owner, from 20 ft. and 30 ft. shaft, claimed to carry values of 200 oz. silver - selected ore from waste pile - only sampled 38 oz.

Development and sufface showings are valuable only to give an idea of the extent and general character of the mineralization and probable values.

The great similarity between this new district and Leadville, Colorado are obvious to any enquirer or miner conversant with the Larber Camp and its geology and mineralization.

I consider it one of the most interest mineral deposit veins. I have any knowledge of and well worthy of extensive development, promising very extensive deposits of lead ores with unusual silver values and quite noticeable gold contents as well.

Well I have mentioned only four claims out of 6 in this group - the entire acreage is probably extremely valuable and should be prospected later - but No. 1 and No. 4 deserve of very thorough development and should indicate the value of the additional ground.

Mr. John P. Owen.

Tucs Arizona.
July 13, 1916.

A O A

My Dear Sir:

At your request I recently visited and inspected the Black Princess Group of mines two miles north of Cerro Colorado, and am pleased to report as follows:

The country is rolling hills, and an automobile or wagon can reach any part of it on or off from roads. The wagon road to the Southern Pacific railway at Amadoville is good, and I measured the distance by speedometer and found it 18 miles. Judged the altitude at about 3000 feet.

The formation is very attractive to a miner, because the ore occurs in the contact of limestone and eruptive rocks, and this I consider the best possible formation for large and lasting ore bodies. The dump on the Black Princess speaks for itself, being largely composed of black manganese ledge matter, carrying both lead and silver values. I went into the workings down an inclined shaft, sunk in ore about 6 ft. between walls, and examined a drift fully 50 ft. long, driven east at about 50 to 60 ft. in depth. This work is in similar ore to that on the dump, but much richer, as it contains small streaks of high grade carbonate of lead, rich in silver, and all of this grade of ore has been sorted out of the dump when mined. In this drift a shot has been fired into the foot-wall, and this shows up even better ore than the drift or shaft--at least it is heavier in manganese and lead than the average of the ore in shaft. The hanging wall is broken at 60 or 70 ft. in depth, and 4 ins. of high grade lead-silver ore exposed back of the so-called hanging wall. From these conditions it is plain plain that the shaft and drift have not exposed or developed but part of the vein, and that the ore is much greater in width than at first sight one would expect. I inspected the surface, and am satisfied that there is a very extensive body of ore on this property, and that a moderate amount of development will prove this to be the case.

As the water was not out of the dump I could not fully examine the lower part of the shaft, but ore from below the water level shows much heavier in lead values, and the character has changed from carbonate of lead to sulphide and sulphate. I estimate ores above water level 20 to 25% lead and 35 to 50 oz. in silver. While selected ore will go quite high in lead, one sample of galena that I took carrying over 60% lead and 112 oz. silver.

At the next shaft, west on No. 4, a shoot of fine ore has been stoped across the shaft 30 Or 40 ft. in depth, and this carries more copper and less lead, but silver values are very good. The stope in places is over 6 ft. in width, and as there is no waste dump it was unquestionably all ore of sufficient grade to ship at a profit. A cross cut drift is started east at 100 ft. level to cut this ore shoot on its pitch, and I don't consider they have far to go to get into it/ My assays from this ore body run from 20 to 60 oz. and some samples taken will go more than 3% copper.

The workings on Nos. 5 and 6 are on feeders or branch veins that join to make the larg ore bordies opened on No. 4 and No. 1. There are certainly two good ore shoots on this vein and of such size that they can produce heavily. A cross cut run north from No. 4 shaft for about 100 ft. will probably cut a side vein in a little more driving, as this side vein outcrops on surface and pans considerable gold.

The Barytae claims are in a good sized fissured zone, and need heavy equipment. Good ore is opened, carrying values in lead, copper and silver. A stope produced a considerable quantity of good ore east of a 70 ft. shaft. A tunnel is driven into same vein below the shaft and is into ore one to two feet wide. This property needs more depth, and is in good shape for sinking.

I have been mine superintendent on some of the largest mines in Leadville, Aspen, and Cripple Creek, and from my personal knowledge in regard to ore deposits and formations, I am satisfied that the Princess vein will make, with proper development, one of the largest mines in Southern Arizona, and of good grade ore as well.

Respectfully submitted - /sd/ W.C.Abbott. Tucson, Arizona-July 13, 16

ARTIAL LIST OF ORE SHIPMENTS.

Made from 850 feet of development work on .

BLACK PRINCESS or LEAD TROUGH GROUP OF MINES,

On waste piles about 500 tons of sorted and shipped best of same depth now lokw grade.

| xtracted from Claim No. 1 | Gold | CC Silver | NTENTS I Lead | N Copper | Net Returns |
|---|------|--------------|------------------|-------------|-----------------|
| y Leasor (from trench east of) | \$ | Ounces | % | % | \$ |
| naing incline shaft on No. 1 to) Il Paso Smelter, about 10 tons) | | 200 | 40. | | \$ 900.00 |
| By owners to Phelps-Dodge Corp.) Douglas, Arizona | | | | | |
| 54,220 lbs. (No lead returns as) copper smelter.) | | 38.88 | | .96 | 743.84 |
| 64,960 lbs. | | 23.70 | | .81 | 435.05 |
| 52,900 lbs. | | 16.32 | | 1.54 | 255.03 |
| 35,929 lbs. | | 24.99 | | .48 | 216.02 |
| rom Claim No. 4 31,820 lbs. | | 26.60 | | 5.50 | 861.86 |
| Selected ore sold to Miller &) Cox, Nogales, Arizona.) | | | | | |
| 2.0// 120 | | 31.60 | 11.20 | | 13.70 |
| 2,366 lbs. 2,387 lbs. | 2.00 | 77.20 | 14.00 | | 28.40 |
| 3,106 lbs. | | 77.50 | 22.70 | | 39.20 |
| 3,374 lbs. | | 252.00 | 42.80 | | 140.40 |
| 5,645 lbs. | 1.20 | .63.00 | 16.10 | | 125.15 12.35 |
| 725 lbs | | 115.90 | 23.70 | | 124.20 |
| 2,740 lbs. | | 128.50 | 39.00 | | TEM . 20 |

NOTE -

Additional ore to the amount of a bout \$1,700,00 has been shipped from this property but as mixed with other ores, cannot be segregated and added.

Above data copied from Snyders Report - much ore has been shipped since above list was made out but return sheets carried away by a Canadian and could not get back.

/sd/ UDALL

NOTE - W. C. ABBOTT was Sup't. of the Ibex Mining Co. (Little Johnie Mine) Leadville, Colo. while it output many millions of lead-silver ores in lime porphyry, horizontal cutouts. Subhate Leadville Colorado has produced more wealth as values of ores and made much larger profits from its mines than all the mines of the comstock lode in Cripple Creek and Goldfield takem together.

J J (Jim) Brown, 1/2 owner, with J. F. Campian, in the Little Johnie examined the Black Princess some year ago and made me an offer on the dump at No. 1 which I refused, shortly after he died in L.A. and I wrote to John Campian, re, the property, his attorney wrote that my letter came too late - John was killed in auto wreck few days before.

The Safety Tungst Property consists of 8 lode ming claims, also covering and holding title to the same area of placer ground - and a millage and water right of about 5 acres. Claims are located 600 x 1500' each. All situated in Sec. 15 (or adjoining sections) Twp. 20, R. 10 E. in Pilli County, Arizona. 22 miles from Armado Station in the S.P. Ry. (Nogales Branch) and 58 miles from either Tucson or Nogales. County road to within 6 miles of property and a possable road (needs some repairs for heavy teaming) if 6 miles to and onto the property.

Formation is entirely eruptive and intrusive, general magma is a fine quarried yellow porphyry, much crushed and kaolinized lying between extensive dykes or laccolites of eruptives. Ryolyte and andesyte and cut through its magma (Extensive Magma) by small dykes sills of various eruptives of intrusives. Diabase, dioryte and a granular porphyry carrying considerable percentage of sulphides of iron and C, together with dykes of apparently doloryte. The yellow to brown magma in which the considerable number of fractures or veins occur is of very considerable extent, in places where exposed to surface having a area of up to 800 by 700 ft. at one point (on Spar claim and adjoining S 4 & 5. See Map). and from which an extensive belt shows easterly (on Spar) and another northerly into Octapus and Spar 2).

Only slight work has been done as development on the group, surface cuts and shallow chafts on veins - where the surface ores or vein fillings, 3 or 4 ft. between walls, carried small quartz stringers, seldom over 8" in thickness to a depth of 10 ft. seldom averaged over 2% - with 4 or 5% limit. However, one incline near W. end of spar claim was sunk, (incline) at 30 at 35°) to 35 in depth, measured on incline, and from 20 to 35' depth along some 60' of drift and stope output fully 20 tons of 17% ore as mined ore varying from 2 or 3 to 8" in thickness 7 tons of this shipped stothy Wood Co. into Denver, saved 17 † % of 68% concentrates, walframite and electric separation saved about 5% of scheelite - (5% amount of concentrates).

Two other lots, total 8 tons, of hand sortedore sold to Whitcomb at Las Gujas carried 35 & 39 WO2. About 20 tons of low grade ores, waste from operations - averaged 49 and some 7 tons of "waste Piles" from surface prospecting and assessment work hauled away by Ben Wilson and others, was started to carry only 2%. The largest quartz vein showing in the property, crushed to present depth, shows 2' to 2-1/2' of quartz in 20' incline 75° with only slight showing of WO3 - to that depth altho an 8' shaft some 200' east of incline showed some 5% ore in 8-10 & 12" quartz of same vein. This work is on Spar No. 4 near e.end of spar, a cut and shaft (12') cuts into a quite extensive body of ledge material. Black and grey with manganese, width not yet determined - which carries some WO3 to surface - 1 to 1-1/2% with extensive surface outcrops e. of the development.

The magma in which the veins occur is generally seamed with brown to black iron and carries small values in WO₃ were tested - in fact very considerable width of such material give up 1/2% or better in concentrates - (around 60% C.).

The property needs extensive development to prove the value and extent of ore at depth for surface ores in soft veins are probably extensively leached of the property values. Thru descending surface waters - carrying soda and potash in solution - leaching agencies for all tungsten minerals - and such values should be deposited in depth.

Note. - on account of extensively soft formation of surface, rocks and the fact that veins are quite "flat" - workings are largely caved - assisted by mexican "mine robbers" many of whom have lived for years past picking float and clearing out ore leavings from workings on this property (together with California bums - who, when I would not give them working leases, took possession of and worked the property, and when ordered off, jumped same and caused me to fight two law suits for title, (one outfit, broke and crooked, backed by "petty forgery" hollering lawyers - of course we beat them and plenty off expense, which prevented doing development intended).

Immediately, available values open for estimates and sampling forming a reserve of raw material ready for manufacture as soon as equipment is established with which to treat (manufacture) same.

This consists of of the deposits immediately exposed upon the surface, covering the main gulch sands and gravel—the the adjoining flats and si—tills. The ground covered by this detritus or placer deposits derived from the crosion of the vein materials and adjoining. Impregnated, country rock, covers very considerable areas (marked approximately in blue on map). These surfaces are reserves vary in depth in thickness from 1 ft to 8 & 10 ft. and apparently averages 3 ft, in depth. On Spar, Spar 4 and Spar 5 claims, covering some 1800 ft. of gulch and extensive side hill areas the safely workable material covers a surface area of fully 500 x 1200 ft. by 3 ft. in depth or 1,800,000 cu.ft. which at 18 c.f. to 1 ton equals 100,000 tons, which will average not less than 1/4% Wo. (assay based on 100% metal not oxide) which latter is 79 to 80% Wo metal and we are figuring on working 60% Wo concentrates so that 1/4% Wo equals 5 lbs. metal per ton or approx. 6 lbs. Wog (80%) or 8-1/3 lbs. of 60% WOg. While quotations of sey \$18.00 unit (20%) are in oxide - Wog - not metal, which cannot be made at ordinary mills and in fact the oxide is used direct for steel alloying.

On Octapus, Octapus No. 2, Spar No. 2 and Manuel claims, cavering the drainage channel, adjoining flats and some mesa grounds (see map) an even larger tonnage is available but carrying onby 1/2 the value in tungsten viz 1/8% Wo.

We thus find that 100,000 tons of better grade ore carrying 1/4% will produce

Tons of tungsten

250.

While 100,000 tons of the lower grade ore 1/8% =

125. 375 T

And as all run estimates are made on 60% contentrates we would have not 375 T but

625 T.

of 60% Wo3.

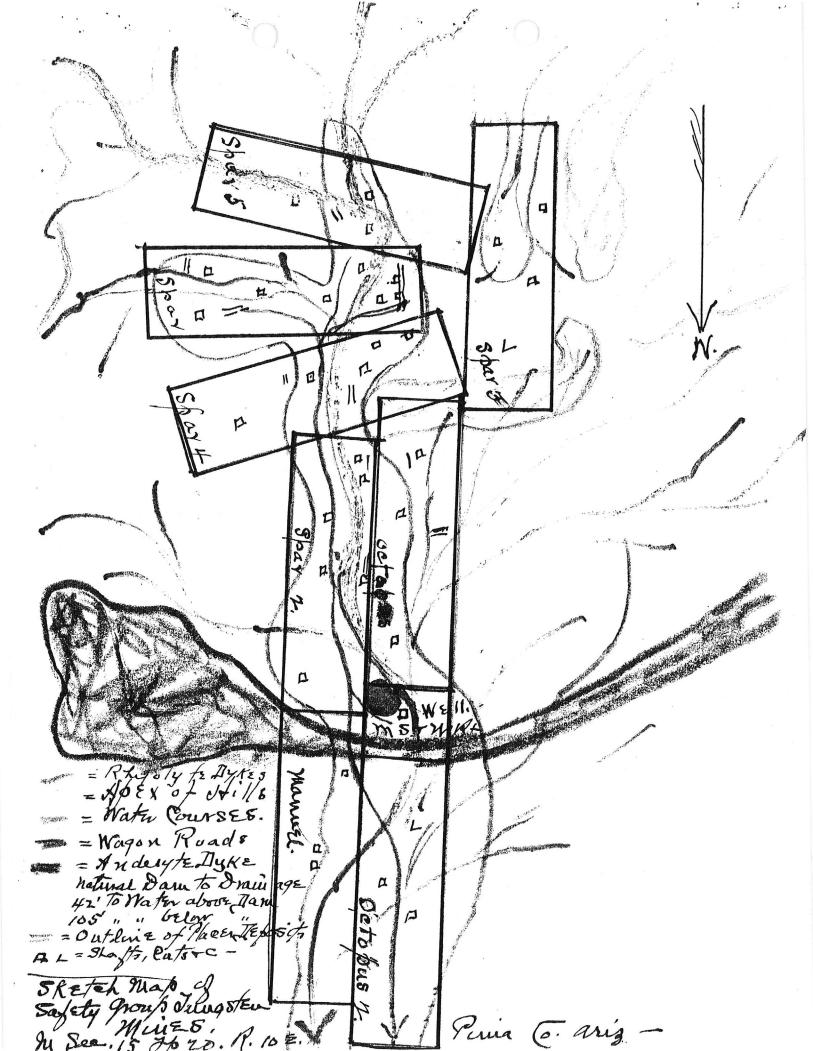
In Arizona, water is an important requisite in mining operations. This I consider we have demonstrated to have available in sufficient quantity for all needs up to the milling of 100 tons daily which means the working of 200 T. of crude ore, as only 1/2 of the material as scraped to the plant will go to the concentration tables, requiring 400 tons, maximum of water ks 100,000 gals per day - by reference to map it will be seen that the extensive drainage system (in red) is crossed at right angles by a very extensive dyke of eruptive rock, (andesyte) which forms a natural dam, holding back the water in a very extensive soft vebn or vertical stratum 20 to 40 ft. in thickness. Below this dam (on wells below same on Cattle ranches) it is 100 ft or more to water, above the sem it is 42 ft. to large water vein - as proven by well already sunk - to water - see estimate p.99.

Cast of Production and Marketing.

Operating force after equipment is installed - operating & functioning - 3 shifts, 8 hrs ea.

| | 48.00 | |
|--|-------------------|--------------|
| 12 American average wage \$4.00 | 70-4-1220 FP4 7-2 | |
| 16 Mexicans (American citizens?) \$2.00 | 32.00 | |
| Sax per ton 2.00 teaming to Ry. \$2.00 | 4.00 | |
| Sax per ton 2:00 tours | 12.00 | |
| Fuel oil and up-keep | 4.00 | |
| Insurance \$1.00 | | |
| Daily expenses treating 100 tons to mill - equals \$1.00 | por von | \$200,000.00 |
| Treating total of 200,000 tons | | 30,000.00 |
| Cost of original investment | | |
| Taxes, Insurance & C & C | | 20,000.00 |
| Taxes, Insurance & o & TOTAL | | \$250,000.00 |
| Garing - (Net 281 1/24) \$2.75 | | |
| Daving = (1100 201 1) | | |
| Operating costs 1.00 | | |
| Investment Taxes & C? | | |
| \$ 1.25 | | |
| # 1 FO #200 000 00 | | |
| Net Profit = \$ 1.50 = \$300.000.00 | | |

Road to S.P. Py. Dur Jack Water Courses. Boundary of Placer Defsasits anchente Tyle (not Broken) Katural Dam defth to Water (WZII) = 42' " " below Dam = 105' Physlyte IJYKE (very Extensive) apex y Still. Small Sils or 14/185 Aia base or Molos Spar Rotore. Hames of Clairs Situate in Sec. 95-76.20 87.10E. Peria C. aryona. Jafely Group, Tungsten Properties both Loder Placer.



Expense of equipy property to handle 100 tons y to concentrating tables (equal to 200 tons crude me lial daily)

Water -

| | Sunk present 42' shaft to 100' Drift and cross cut 142' at 100' L. = 200' @ 10.00 | | \$2,000.00 | |
|-----------|---|--------------|-------------|--|
| Under Wat | er | 1-1 | | |
| | | | K00 00 | |
| | Timber shaft and drifts where necessary | 1: | 500.00 | |
| | 2 - 10,000 gal tanks and platforms | | 1,000.00 | |
| | Pump at well 2 1/2" discharge - | | | |
| | Wingine and pipe line to tanks & Mill & bldgs & shed - | | 1,500.00 | |
| | Mill building to house | 4 - 13 | 1,,000.00 | |
| | 6 concentrating tables (below) - Rolls- | | | |
| | Set 2 screens (3 sizes of ore) | | | |
| | Ore floor pan grizzlies and drag | | | |
| | 3 steel limed ore Pockets to tables | | 5,000.00 | |
| | | | | |
| 1 | Grizzlies and picking belts | | | |
| | with small engine - 2" dp grizzly | | | |
| | Steel gr. to 1/4" for mill - | | | |
| | P. Belts handle 1/4"/1' & 1" to 2" | | 1,200.00 | |
| | 24 - 123 | | 600.00 | |
| | Drag line to mill 6 tables erected | 8 | 3,200.00 | |
| | O tables elected | 1, 2 8, 1 | 15,000.00 | |
| | 1-2 ton truck | | 750.00 | |
| | 1 Lt. car | | 650.00 | |
| | Dry Namo & lights | i egi | 650.00 | |
| | Repairs to road | 1 | 400.00 | |
| | 2 Tractors & 2 Scrapers & Plow | | 3,700.00 | |
| | Stock fuel & Lub. oil & Tks. | | 500.00 | |
| | " lumber - Sax & C | | 500.00 | |
| | B.S. Shop - work shop & tools | | 800.00 | |
| | Bunk house - boarding H & Office | 4 | 1 050 00 | |
| | and fixtures | V. 1 0 4 1 | 1,050.00 | |
| | | | | |
| | Foundations, excavating, erecting | | | |
| | & Sund. exp. | | 800.00 | |
| | Testing out plant etc. | | 200.00 | |
| | Insurance | | \$25,000.00 | |
| | | | Ψ~>,00000 | |
| | Working capital for | | , | |
| | 60 days - wages @ 80 | | 4,800.00 | |
| | Expenses | 4. | 200.00 | |
| | TOTAL | | \$30,000.00 | |

Thie property consists of 8 mining claims located 600'x1500' each 1 mill site & water right of about 5 acres or a total acreage of about 150 acres, allowing for laps of claims - as fol.:-

| | or about |) across | OT a | 10107 401000 | | | TS A CENTER |
|---|--|----------|------|--------------|--------|-------------|----------------|
| | NAME | | | RECORDED I | N BOOK | PAGE | DATE |
| | ACCOUNT OF THE PERSON OF THE P | 1 | | 11 | ŲŪ. | 253 | April 13, 1916 |
| | Spar | 0 1 | | 11 | 11 | 254 | April 13, 1916 |
| | Spar No. | | | 11 | 11 | 255 | April 3, 1916 |
| | Spar No. | | | 11 | 11 | 25 6 | 11 11 11 |
| ١ | Spar No. | 4 ' | | | | | 11 11 11 |
| | Spar No. | | | 11 | WU, | 256 | |
| • | Manuel | | | 11 | Y.Y. | 421 | May 6, 1916 |
| | : Octopus | • | | 11 | SSS | 370 | March 3, 1934 |
| | Octopus 1 | No. 2 | | 2 | 11 | 370 | July 2, 1936 |
| | 'Octopus I | | & W. | Rf. | M.S.2 | 466 | 11 11 11 |

Title is perfect and affidavit for ass't. work for 39/40 has been filed for record.

ALBERT STEINFELD & CO.,

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TUCSON, ARIZONA.

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September 30, 1933.

Capt. John A. Hassell, 632 Subway Terminal Bldg., Los Angeles, California.

Dear Sir:

In answer to your inquiry regarding Mr. Charles E. Udall would state that I have known this party for the past thirty years that he has been a resident in this vicinity as a mining engineer and operator, during which time has has handled some important mining properties, and has generally borne a good reputation as to his honesty, trustworthiness and ability as a mining engineer.

I believe that he understands his profession thoroughly.

Yours truly,

/sd/ Albert Steinfeld.

AS*HJ

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ELEVEN BROADWAY

NEW YORK

November 21, 1929.

Dear Mr. Udall:

I thank you very much for your letter. I wish that I had the means and time to go with you into the proposition which you mention, but, unfortunately, I have neither.

I try to manage to get off once every three or four years, and in the interim I am always hard at work in my business.

Faithfully yours,

(Signed) KERMIT ROOSEVELT.

Charles E. Udall, Eqq. Ruby, Arizona.

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GUARANTEE TRUST COMPANY

New York City, Sept. 11, 1916.

Mr. Charles G. Russell, Tucson, Arizona.

Dear Sir:-

In reply to your of 5th. inst. will state, I have known Mr. Charles E. Udall, since 1907 or 8, when he carried an account with the Standard Trust Company, for several years, of which company, I was an officer.

S ince that date I have had considerable personal contact with Mr. Udall, and have every reason to consider him a man of probity and ability; my dealings with him have been entirely satisfactory, as have the banking houses with which I have been connected. I understand his rating among mining engineers, is first class.

(signed) W.C.Cox

V.P.

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TRAYLOR ENGINEERING COMPANY

ALLENTOWN, PENNSYLVANIA October 6, 1913.

Mr. S. M. Franklyn, Tucson, Arizona.

Dear Sir: -

Replying to your inquiry, I will state, I am well acquainted with Mr. Charles E. Udall of your city, having had opportunity to check up on his ability and knowledged over several years of his operations.

I can recommend him to you as a well posted engineer and operator, able, efficient and dependable.

In my estimation he can accomplish more with a given capital than any operator of my acquaintance.

Yours truly,

(Signed) SAMUEL L. TRAYLOR.

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PEINE WEBBER & COMPANY

Shawmutt Bank Building, Boston, Mass.

October, 1916.

Mr. W. S. Hutchinson, 43 Exchange Place, New York City.

Dear Sir:

In reply to your inquiry regarding

Mr. Charles E. Udall, will state, I have known

Mr. Udall since about 1900 when I met him in Arizona, in

regard to properties on which I had his report. Our engineers

reports that they found him report exceptionally accurate

and endorsed the same.

Since that time, I have frequently had occasion to consult him regarding properties nin which I was interested, and consider him, a first class mining Engineer, and worthy of your fullest confidence

Yours truly,
(Signed) WM. A. PAINE.

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GEORGE CRAWFORD

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Mines and Mining 10 Wall Street, New York.

Cable Address RABATO

April 3, 1919.

TO WHOM IT MAY CONCERN:

This is to certify that I have known Mr. Chas. E. Udall, for a great number of years past, since about 1890, and consider him one of the best mining men and mineralogists I have ever known, during my thirty years in this line of business. I have had occasion to thoroughby investigate his ability and standing, and can state he has great executive ability, and unfailing energy, and is strictly dependable and honest in all his dealings. As a mine operator and handler of men, I consider it hard to find his equal.

Yours truly,

(Signed) GEORGE CRAWFORD.

NOTE-

Mr. George Crawford paid \$125,000.00 for a 10 foot hole in ore on the "Yankee Girl Claim" at Red Mountain (between Ouray and Silverton), Colorado, and later on an equal price for the adjoining Robinson Mine, with no surface showing.

From these two claims, he mined and shipped to the smelters, \$18,000,000.00 of ore during the following eight years, at an extremely large profit.

Mr. Otto Mears, built at his own expense, 22 miles of narrow gauge railway to serve this property on contract for total greight, and made money in his railroad venture, while reducing cost of transportation for the mine, to nearly half of the former cost of packing ore and supplies.

AMERICAN WOOLENS COMPANY 4th Ave. & 18th St., New York.

Sept. 10, 1919.

Office of Selling Agent.

Mr. Charles Driggs, Boston, Mass.

Dear Sir: -

Replying to your inquiry, am pleased to state:

"I have known Mr. Charles E. Udall intimately for past fifteen years, and had considerable dealings with him during that time.

I know him to be a man of energy and ability in his line as a mining engineer, and was glad to have my son hold a position under him in an Arizona mining property.

His reputation for honesty and integrity is unquestioned and I can heartily recommend him to you.

Yours truly,

(SIGNED) ROGER NEWTON ARMS.

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THOMAS F. WILSON Attorney-at-Law

> Rucson, Arizona. October 15, 1916.

Mr. W. S. Hutchinson, New York City, New York.

Dear Sir:

Replying to your inquiry will state, I have known Mr. Charles E. Udall, intimately for a considerable number of years, and can cordially recommend him to you, as a first class Geologist and Metallurgist, as well as an able executive.

For energy and perserverence, I do not know his equal.

I am satisfied that you will be entirely satisfied with any business dealings you may have with him, and will find him absolutely honest in all his dealings.

(SIGNED) THOMAS F. WILSON.

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FIDELTY TRUST COMPANY

State Street

Boston, Mass. Sept. 20, 1919.

To Whom It May Concern:

This is to certify that I have long and intimately been acquainted with Mr. Charles E. Udall of Tucson, Arizona, and can vouch for him, as a fully qualified Engineer and a Scientist of no mean standing.

He is honest, energetic and thorough as I have cause to know. I consider him a thoroughly well posted Metallurgist and Geologist, and can recommend him to anyone desiring his services.

(Signed) HENRY BURDEN MC DOWELL.

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HELVETIA MINES

James B. Seager, Mgr.,

CALLOMOTE & HECKEL SMALLED WORKS

Tucson, Arizona.

A rabbi Sept. 10, 1912.

Part 15 1900.

TO WHOM IT MAY CONCERN:

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This is to certify, that our Company purchased

This is to martify that I have local that we found the report this property from Mr. Charles E. Udall, and that we found the report Mr. Charles M. Inell, for some years post, he having reported on a on same by Mr. Udall, to be consergative and accurate in all respects. copper property, to which I became interested in Arizoga.

It is the first time in my experience that

Myneif, and associations laural Mr. Udeli, to be a on the working of a property, the results obtained held up to the men of good independs and problem, our i take placements vendors report and claims.

state postbated been confidence to the meltity and page ont.

During several years past, I have had dealings

with Mr. Udall, and have found him strictly dependable, and a first class judge of mines and formations, and can strongly recommend him to those who may have business dealings with him.

(Signed) JAS. B. SEAGER.

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Y Mr. Chas. G. Russell,

Dear Sir: -

In replying to your letter of the 5th, I wish to state

I have known Mr. Udall, since about 1900, when I bought an interest
in a gold prospect in the vicinity of Tucson, from a Mr. Brrow;
while my knowledge of Mr. Udall is somewhat limited, I believe
be
him to/a good mining engineer, and thoroughly reliable.

I know his general reputation to be good, and personally I have every confidence in him.

Respectfully,
(Signed) JOHN BROCKMAN.

NOTE-

The late Mr. Brockman, was the purchaser of the "Pierce Mine" in Southern Arizona, paying \$70,000.00 practically cash, for a prospect hole, in a large quartz vein.

During the following years, he and his associates, the Commonwealth Company, has extracted from the ground 600,000 tons of ore, averaging \$20.00 per ton in gold and silver, at a profit of over six million (\$6,000,000.00) dollars.

SELIM M. FRANKLIN A ttorney-at-Law

Tucson, Arizona October 12, 1916.

This is to certify that I have known

Mr. Charles E. Udall for a number of years past, since 1899

I believe.

For a number of years past, I have acted as his attorney and have consulted him in regard to mining properties.

I consider Mr. Udall to be well posted in mines and ores and their treatment.

He purchased and worked a very large quantity of tailings from a compny in which I was interested, and showed marked ability in his operations, in working low grade ores, and also in handling men and keeping down expenses.

I can recommend him as an able executive, and a man of thorough integrity, to anyone doing business with him.

(SIGNED) SELIM M. FRANKLIN.

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STEWART & COMPANY

A ttorney-at-Law

41 Liberty St.

New York City, Oct. 20, 1913.

This is to certify that I have known Mr. Charles E. Udall, for a number of years past, and had considerable business dealings with him, and have taken accasion to check up as to his ability and integrity.

I take pleasure in stating that I have found Mr. Udall, to be exceptionally well informed mining man, well grounded in geology and metallurgical problems, and an executive of marked ability and energy, and proven probity.

I heartily recommend him to anyone desiring his service.

(SIGNED) MERVYN A. RICE.

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GOLBERT MILLS

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4th Ave. & 15th St.,

Y

New York City. Sept. 11, 1919.

Office of Selling Agent.

Mr. Charles Briggs, Boston, Mass.

My Dear Sir:

Your inquiry received and will state -

Mr. Charles E. Udall is well and favorably known to me as a man of probity and proven ability in his line.

Myself, wife and son, visited him some years since in Arizona, and his wife and he are welcome guests at my home.

I understand that he ranks high in his profession as a Mining Engineer.

Trusting this answers your inquiry, I am

Yours truly,

(SIGNED) GEO. O. LEAVITT.

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Along similar enginering and operating lines Mr. C. E. Udall has had a very considerable experience haing with Mr. Charles Poullot, shipped very high grade Uranium Ore to Otto Krupp at Hamburg, Germany from the Kirk Mine in Gilpin Colorado, about 6 tons carrying 59-1/2% UO3, about 11 tons carrying 22% UO3, bought for Freid Krupp of Essen.

In 1901 purchased the Tailings Dump at Mammoth, Arizona. 400,000 tons of waste which had been worked over twice by crushing and amalgamation and later by eyaniding.

Udall sunk and cased wells installed pump up to 5" discharge. Erected a plant, put 70 men and 70 horses and mules to work and concentrated 300,000 tons of ore developing and pumping 600,000 gallens of water per day.

Plant cost \$16,000 and output 1252 tons of willfenite (mobybdate of lead) concentrates in 20 months operations, treating an average of 500 tons daily.

Ore contained 1/2% wulfenite and concentrates carried 20 to 22% MaO₃ which was paid for at 25¢ per lb. or \$100 to 110.00 per ton. Original value of wulfenite in ore (tailings) was 50¢ per ton and the operations showed a profit of about 20% in costs. Note: as much of (\$13.) the lead mobybdate was broken to 100 to 250 mesh (wheat flour 260 mesh) the fines could not be saved on wet concentrating tables and therefore Udall built a "dry mill" a battery of 4 operative (1 reserve) Dry concentrating tables and saved in excess of 400 tons of his 1250 tons gross saving - Dry gross sales \$125,000.

The product went to Stein & Boencke "Primas Chemical Co.", Primas, Pa., who built a \$40,000. plant in which to treat this product and resold to U.S.Steel Corporation - Chas. Schwab, Pres. This was the first commercial production of molybdenium in the U.S.A. and was equal to 20 times the world's previous yearly production. It required \$49 months of effort in N.Y. and the east to induce any American steel man to contract for such a "huge quantity" of a nearly unknown metal on which only the germans had any real knowledge.

(2-3/4% alloy in liners for 12" - 70 ton 50 ft. artillery extended the safe life of the guns from 20 to 100 discharges, was the information I passed along to Mr. W. obtained from a german artillery officer in Newport, R.I. - 1901).

The Primas Co. reduced and cleaned the Mo. metal to 98% - aresenic and sulphur free and obtained 75ϕ lb. from U.S. Steel, made some money - present total run \$2.60 lb.

During World War 1, Udall sold tungsten concentrates from \$35.00 up per ton. U. S. Sales sold to Geo. C. Blackwell Sons Co. (Purveyors at the Admiralty) the Albany, Liverpool Eng. a number of carloads of Molybdenum ores and concentrates together with 38 shipments of ferro vanadium, total about \$200,000. at war prices. Cancelled their contracts for cause and sold to Atlantic Metals & Alloy Co. (Morgan Belmont & Cary Belmont) \$135,040. of Molybdenum ores and to E.J. Lavino & Co. Philadelphia, Pa. \$25,947.51.

Above sales all sampled and shipped through Ledoux & Co. 99 John St., New York. Hereto attached are some references and copies of old references, re: Mr. Udall and his standing.

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SA 161 10 - HD HOLLYWOOD CALIF 15 1100A

CHAS E UDALL - MAIL BB 24 RUBY STAR ROUTE
TUCSON ARIZ

ARRIVE HOTEL SANTARITA TUESDAY EVENING PLEASE MEET ME WEDNESDAY MORNING

J PARKE CHANNING

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RALPH ARNOLD CONSULTING GEOLOGIST AND PETROLEUM ENGINMER

CABLE: RALFARNOIL

CODE: BENTLEY'S

SUBWAY TERMINAL BLDG., LOS ANGELES, CAL.

120 BROADWAY, NEW YORK.

LOS ANGELES, DECEMBER 13, 1937.

MR. CHARLES E. UDALL, BOX 24, RUBY STAR ROUTE, VIA TUCSON, ARIZONA.

DEAR MR. UDALL:

My associates and I are quite interested in your letter of the 11th which has just come to hand.

I have two clients who I think would be interested in this mine if it measures up to what you say about ot. However, I have had dealings with these people before, and I find it absolutely essential that we have a firm option on the property at terms satisfactory to the owner with a firm commission agreement attached, so that my clients will have time to give the matter thought, and if they are interested, will then be given plenty of time to make any necessary examinations. Both these clients always request that I state the parties to whom the mine has been presented before. Each one has one or more associates which they usually call in to help finance a deal of this size. In one instance one of the associates they called in had had the mine on better terms than I had offered it to them, and you can just guess that I came very near losing this client on account of that experience. I therefore, request that you ascertain to whom the mine has been presented, what action any or all of the prospective purchasers took besides turning it down, etc.

The fact that Mr. Park Channing has examined the property and likes it is a recommendation for it, as Channing is very well known for his conservatism.

If you will get the option as requested, I assure you that I will devote enough of my time to it to give the proposition a good run. I think that after the first of the year will be a good time to make such a presentation.

Yours very truly,

/signed/ RALPH ARNOLD.

RA-MS

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J. PARKE CHANNING 61 Broadway New York

Cable Address "Channing New York"

602 Cahuenga Blvd., Los Angeles, California.

July 23, 1936.

My dear Mr. Udall:

Your letter of the 10th received in

N.Y. the 14th has been forwarded to me. I have retired from a time practice, but could have Mr. F. B. Alsdorf of this city examine the property for me. Mr. Alsdorf of this city is the man who brought Miami to me and had experience in the Clifton-Morenci District with the prophyries long before Jackling opened up the Utah. He is no "Cheap Scout".

I can have Mr. Alsdorf go by train to Tucson to meet you. Is the property near Tucson?

Mr. Susmann address is 61 Broadway, New York, N.Y. Room 1825, and he goes to the office occasionally.

Faithfully yours,

/sd/ J. Parke Channing.

Charles E. Udall Esq., Box 24 Ruby Star Route, Tucson, Arizona.

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MS-42

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA OWNERS MINE REPORT

Date May 17, 1940

1. Mine Safety Group

2. Mining District & County Cerro Colorado Dist.

3. Former name

5. Owner C. E. Udall

7. Operator

9. President

11. Mine Supt.

13. Principal Metals

Tungsten

15. Production Rate Governed by shaft to be erected

17. Power: Amt. & Type

18. Operations: Present

Not working

4. Location 22 mil West of Amado Stn. on S.P. Ry. and 50 miles from Nogales or Tucson.

6. Address (Owner) Box 24, Ruby Star Rt. Via Tucson.

8. Address (Operator)

10. Gen. Mgr.

Udall

12. Mill Supt.

14. Men Employed

16. Mill: Type & Cap.

19. Operations Planned Property for sale or prefer partner with necessary working capital to properly equip and operate treating at least 100 tons daily.

20. Number Claims, Title, etc. 8 unpatented claims and 5 acres. Mill site and water right with well sunk 42 ft into large vein of water.

21. Description: Topography & Geography Claims cover about 1800 ft of an extensive (dry) water course with adjoining flats and hillsides.

22. Mine Workings: Amt. & Condition

a number of shallow pits 4 to 11 ft. deep, sunk largely for purpose of sampling the depth offd value of the detritus or placer deposit. Some workings up to 30 ft., inclines now caved, sunk in the net work of veins or fractures have produced and sold probably 20 tons of 4 % to 17% WO₂ - Welframite, Hubasite Hubasite

23. Geology & Mineralization

mation is entirely eruptive at the mineralization is in a much crushed and kaclinized granite. For hyry cut by many sills or small dykes, the magma seemed by iron oxides, aalso carrying small values.

24. Ore: Positive & Probable, Ore Dumps, Tailings We estimate 100,000 tons of placer carrying safely 1/4% WO, with an additional 100,000 to 150,000 tons of 1/8%, deposits vary from 1' to 9' in depth, will average 3'

24-A Vein Width, Length, Value, etc. The veins are small so far as and light development has opened them and no ore of any decent value has exceeded 8" in thickness altho veins are up to 3' and 4' in places.

- 25. Mine, Mill Equipment & Flow Sheet
- Property is 4 and 5 miles from County road over a passable 26. Road Conditions, Route side road. 22 miles to B.R. no bad hills, easily put in shape for heavy work.
- 27. Water Supply Is tapped above an extensive dyke of andesyte which crosses the junction of two extensive drainage channels - water at 42' in soft formation below dyke is 105 ft. to water
- Property has produced probably 40 tons of surface ore 20 to 60 % 28. Brief History float - mostly stolen by Mexicans
- 29. Special Problems, Reports Filed Having worked similar concentrating materials 300,000 tons containing only grass values of 50¢ ton, at a profit I will state it requires a plant and working capital of \$30,000 to put this property in shape to successful y produce at large profit. Equipment, operating will cost \$25,000 and working capital of \$5,000 is needed.
- 30. Remarks
- 31. If property for sale: Price, terms and address to negotiate. Property is for sale for \$50,000 -10% cash payment. Will lease for 15% royalty - leaser to equip and work mine of 100 tons daily.

Charles E. Udall

- 32. Signed
- 33. Use additional sheets if necessary.

The first 100.000 tus from Gulckrottil Side en "Span Clamis Votas Ven Jampled by Enqueers as 4/10 % + also as 1/2 % -Ogar Jackard Saughung lately & fat only 35/100 % hence State is Carries 15/100/0 to 12 Safe - Many Samples of the Julik Jand Travel have Juin up to 1/0 - 103 + 8 have had Dieces of Float from the Placer deposit up to 9 lbs 60% Hugget & 1 Luath 8"X8" X8" X8" Mighing 35 * that I judged (arned 35 % NO, 3.

Somerr, after our Krightons, both Mex & Grugo, Tare VErn Sating out all the Surface Churchs for 15 your Dast- Good float mil. Esty (and out with the Scraper V have held this property for 4 Fau I refused Many offen? for Dame as intended to Work it Dersonally- but to date tarnt had the Capital to do So - Tho Deuse in Suttering mithant proper Equipment-Took 20,000 to finance mosking the 300,000 Two Offented in Cival 6. in 190152 little Store Earned the Working tastal back for The, -

Refer yan to Smul it, Traylor Traylor Eng. Work Sus Blacksill Tuc Sur ary abshart Title f. 6a.D. Mackey 198 Amay hew Jak aty Hem of needed Jours My. Frist by house from Tucson is 52 Miles of 6 miles further to Bosterty Carty Mishing & Zamine Can Come in Carpan Jucson, dann not gaing after him - Udall

