MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1068.2.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 23 1955

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-3849
Metal or Mineral Uranium
Date Received 6-6-55
Estimated Cost $25,000.00
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address:

Colonel R. Carnes, General Partner (see attached)
2632 Fulton Avenue
Sacramento, California

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract

See attached

(*b*) State any mine name by which the property is known. See attached

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise

See attached

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See attached

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See attached.

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(*a*) State the mineral or minerals for which you wish to explore primarily uranium

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 10 days and be completed within 6 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See attached sheet

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

[x] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper. Previous exploration work already done and paid for.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated May 24, 1955

URANIUM COMBINED METALS COMPANY
(Applicant)

By Roland R. Carnes

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

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1. Name of applicant -- (a)

Limited Partners:

H. Perry White
923 Homewood Drive
Woodland, California

John Frederick Johnston
128 Court Street
Woodland, California

Clarence H. Pease
1724 Daphne Avenue
Sacramento, California

John W. Davis
Williams Highway
Colusa, California

Mario Marengo
825 Reddinger Street
Williams, California

Jack Combs
Rt. 3, Box 515
Highway 99W
Woodland, California

4. Physical description -- (a)

At the present time, the partnership has done some assessment work staked corners for claims; paid the legal expense of obtaining various documents and the negotiation and has had geological investigation with preliminary report, a copy of which is attached. The area lies astride U. S. Highway 40 in Plumas County and is easily reached from the road on foot. There has been no past or current production. The area is adjacent to the railroad and shipping of ores can be accomplished by a truck haul of two or three miles. There would be sufficient man power, materials, supplies, equipment, water and power for any conceivable requirement of the operation of these properties as a mine.

5. The exploration project --

(d) Applicant has no extensive personal experience in mining or mineral operations but would necessarily follow the suggestions and employ a supervising geologist or mining engineer.

6. Estimate of Costs --

The estimated cost is approximately $3.00 a foot for core drilling, together with some road work, tunnel excavation, and sampling for a total estimated cost of $25,000.00. Much of this cost would be handled by way of independent contracts for drilling operations.

6. Labor, supervision, consultants --

(b) Labor, supervision and consultants to be paid current standard rates of scales of pay in the area.

(d) Equipment to be rented at current and standard prices.

(e) There is no equipment which will require necessary initial rehabilitation or repairs.

(f) No buildings are proposed to be installed, purchased or constructed for the benefit of the exploration project.

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Geologic Report
on
Uranium Combined Metals Company
Plumas County Uranium Prospects

by

Wessley W. Paulsen
Consulting Geologist

April 27, 1955

Rt. 2, Box 948
Chico, California

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Conclusions:

1. High radiation readings are confined to manganiferous soils or weathered materials with manganiferous coatings in fractures.

2. High radiation counts and radio-assays by the U. S. Bureau of Mines at Reno, Nevada indicate radioactive material of ore quality at the Discovery site on Parcel 3 and in Parcel 2, 800 feet north of the south line of Parcel 2 on Hot Creek Spring.

3. A minimum of 100 tons of manganiferous soil and rock rubble with probably uranium assays of 1% U_3O_8 might be mined at the Hot Spring Creek site, Parcel 2.

4. There are mineable manganiferous soils at the Discovery site below the Feather River Highway on Parcel 3. However, the State Highway Department will not permit mining for fear of undercutting road fill.

5. Very high radioactive counts 5 5o 16 milliroentgens, were observed below Feather River Highway on Parcel 3, and at 800 feet north of the south line of Parcel 2 along Hot Spring Creek. Moderately high radiation counts up to 5 milliroentgens were observed at the south end of the road cut on Parcel 1, and at the "Holt on the Hill" near the south line of Parcel 2.

Radioactive counts twice to three times background were observed in the 100-foot tunnel above the Discovery site on Parcel 3; for several hundred feet south of the 800-foot point on Hot Spring Creek, and in the weathered material on the south slope and bench north of the Highway on Parcel 1. In general traversing of the area, the Gieger counter picked many spots of two to three times background over soil mantle.

6. Radio-assays by the U. S. Bureau of Mines at Reno, Nevada, indicated U_3O_8 equivalent of from 0.01 to 0.025 percent on silicified shale, 0.05 percent on weathered carbonaceous shale, and from 0.33 to 1.64 percent on manganiferous soil and rock rubble.

7. This is a very worthwhile prospect and merits exploration and trial shipments of manganiferous uranium-bearing soils. / [illegible] by AEC

8. Diamond drilling and bulldozer cuts at Hot Spring Creek may expose a lode type deposit in a weathered shear zone.

9. Manganiferous soils on the benches, as in the Tunnel on Parcel 1, warrant further investigation as they may contain uraniferous material mineable for uranium content.

Sampling Results:

Sample 1. Black manganiferous soil. Rejected as not worth assaying by Reno Laboratory, USBM.

Sample 2. Not reported.

Sample 3. Discovery site, Parcel 3, .033 percent U_3O_8 equivalent.

Sample 4. Radioactive spot south end of road cut. Rejected, low.

Sample 5. Radio-active spot in Road Cut, in unweathered rock, rejected by USBM, lack of radio-activity in sampel. On-site reading was 0.5 milliroentgens, background .05-0.10

Sample 6. 100 feet north of Highway opposite Feather River Hot Springs Resort. "Hole on Hill" 0.05 percent U_3O_8 equivalent. Not acceptable as ore.

Sample 6A. Duplicate sample of "Hole on Hill", but west side of outcrop. 0.01 percent U_3O_8 equivalent. Not acceptable as ore.

Sample 7. Black manganiferous soil and rock. Hot Spring Creek 775 feet N of South Line Parcel 2; 1.64 percent U_3O_8 equivalent.

Sample 8. Sample of 18 inches of shale "hard rock", slightly weathered, at 775 feet, north along Hot Spring Creek from south Line Parcel 2. 0.01 percent U_3O_8 equivalent. Not acceptable as ore.

Sample 9. Grab sample of hard rocks from 775 feet to 805 feet North along

Hot Spring Creek from South line of Parcel 2. 0.01 percent U_3O_8 equivalent.

Not acceptable as ore.

Sample 10. Not shipped, low Radio-activity

Sample 11. Hard rock beneath manganiferous soil 100 feet west of discovery post Parcel 3. 0.025 percent U_3O_8 equivalent. Not acceptable as ore.

RECOMMENDATIONS

Exploration:

Diamond drilling and excavation should be carried out at Hot Spring Creek site. (1000 feet northerly along Hot Spring Creek from Feather River Highway.) Easterly slope should be thinly cleaned of soil. Diamond drill should be placed to drill a hole bearing N 25°E at a 30° angle from the low side of the deposit. This hole should be at least 150 feet long to intersect the altered area beneath highly radioactive manganiferous soils.

Core sampling should be from surface down; all drilling sludge caught and held for radiation check and Radio-assay.

A drill hole at the south end of Parcel 1 on the slope nearest the highway, 100 feet in length, 45° slope, north bearing.

Old tunnel above the discovery point should be cleaned out and checked for radioactivity and sampled for ~~radioactivity~~ Radio-assay.

Detailed geologic investigation and radioactive survey should be made of entire area, and will probably disclose more areas worthy of drill or excavation exploration.

Assessment Work:

The road from the west end of Parcel 1 should be extended to the Hot Spring Creek site on Parcel 2. This road will cross the two mining claims and provide assessment work requirements. This road should be radioactive surveyed immediately after completion.

Discovery work on the claims should constitute short tunnels bearing N 45° from the discovery points.

Location of Properties:

The Uranium Combined Metals Company owns, leases, or has options in effect on other property in Plumas County. However, the following described properties were examined for this report.

Parcel One:

Northeast quarter of northeast quarter of Section 24, Township 25 north, Range 8 east, M. D. B. M; East one-half of southeast quarter of southeast quarter of Section 13, Township 25 north, Range 8 east, M. D. B. M.; West one-half of southwest quarter of southwest quarter of Section 18, Township 25 north, Range 9 East, M. D. B. M.; West one-half of northwest quarter of northwest quarter of Section 19, Township 25 north, Range 9 east.

Parcel Two:

North one-half of the Northwest quarter of the Northeast quarter of Section 24. The Southwest quarter of the Southeast quarter and the West half of the Southeast quarter of the Southeast quarter of Section 13, Township 25 North, Range 8 East, M. D. B. M.

Parcel Three:

All that part of the N 1/2 of the NW 1/4 of Section 24, Tp. 25 N. R. 8 E., M. D. M., which lies northerly of the center line of the East Branch of the North Fork of the Feather River, (sometimes called Indian Creek.)

Excepting the portion thereof conveyed by Cora P. Porter and H. G. Porter to the State of California, by Deed dated November 25th, 1929, and recorded in Volume 62 of Deeds, at page 267, Plumas County, California records.

Parcels 1 and 3 lie astride the Feather River Highway with most remote corners only a few hundred feet from the roadway. Parcel 2 can be reached by constructing 300 to 800 feet of road from the Feather River Highway across Parcels 1 or 3. The main line of the Western Pacific Railroad lies south and westerly a few hundred feet across the river on the north bank of the Feather River in Parcel 1, traversing in a general south to north direction across the entire Parcel.

Topography is such that an inexpensive low-level bridge and siding could be constructed. There is an existing bridge and spur 1 1/4 miles westerly from the west line of Parcel 3, all via the Feather River Highway except 1/2 mile which includes the bridge and siding road which are related to the Lumber Mill operating at this place.

Via Highway 24, the property is 95 miles from Reno, Nevada, and 61 miles from Oroville, California. Both Highway and Railroad are open all year, except rarely during heavy winter storms, and then only for a few days.

Topography of the area is mountainous with relief over 4000 feet. All parcels, however, are in an area of moderate mountain slopes, with deeply weathered soils on benches and slopes. Rock outcrops are numberous, but a small percentage of the total area. Maximum relief in the three parcels is 1600 feet. Roads can be constructed almost anywhere in the area with a bulldozer and very little blasting or bridging.

Geology: The area is in the very northern portion of the Sierra-Nevada metamorphic and igneous rock complex. The prospect sites, (Parcels 1 to 3,) lie almost in the middle of an eight-mile-wide belt of carboniferous age meta-sediments. In all probability, they are in the Shoo Fly formation, a portion of the Carboniferous meta-sediments described by Diller of the U. S. Geological Survey. These rocks are the highly silicified and contorted remains of marine sediments. They range from fresh almost unweathered at the level of the Feather River to deeply weathered on slopes higher on the properties. The unweathered rocks are massive with joint partings 6 inches to 2 feet apart, with

most prominent jointing dipping about 20 degrees westerly.

Foliation in the unweathered rocks is near-vertical and east-west in trend. It is more prominent as rocks become more weathered. Bedding appears to parallel coliation. Beds alternate as clay slate, highly contorted carbonaceous shales, and massive, highly silicified quartzitic rock. Lenses of pyritic and iron ixide stained quartz are common and appear to be replacements along certain sheared and crumpled beds.

Geology of the Prospects:

Parcel 1 was examined in the road cut along the Feather River Highway and shallow pits on the southslope facing the Feather River Highway. At the south end of the road cut, heavily weathered clay slates are slumped downhill. Joints of these slates are heavily stained with manganiferous and ferous minerals. The remainder of the road cut is a series of clay slates, quartzites, and closely fractured and contorted carbonaceous shales. Some zones contain lenses of quartz up to three feet wide. On weathered south slopes facing the highway, clay-slates are deeply weathered, and the rubble consists of clay slate, and bull quartz in a heavy clay matrix.

Parcel two was examined by traverse along "Hot Spring Creek", the major creek along the west edge of the property, and in cuts on the slope facing the Feather River Highway. Deeply weathered clay soils mantle rock to a point 500 feet north of the Highway, and 500 feet north of the south line of Parcel 2 exposed only coarse boulders in red clay soil. Shallow pits from this point to 775 feet north of the south line expose red soil or heavily weathered, slightly manganiferous, clay slates. At this point, hard gray clay slates and massive quartzite are thinly mantled with 1 to 2 feet of black manganiferous soil and calcareous tufa of a series of mineral springs. The quartzites are bedded near-vertical, with hard ribs 10 to 20 feet wide and less durable altered zones between. Joints are 1 to 2 inches apart, with major jointing 1 to 2 feet. Between 785 and 805 feet north of the south line, a deep, altered rock zone is covered with manganiferous soil and rock rubble to depths over five feet. This

manganiverous material extends up-hill both easterly and westerly several 10's of feet. Exposures along the hill front facing the Feather River Hot Springs Resort consisted of a few bond outcrops of hard gray quartzite high on the hill, with more closely jointed deeply weathered clay slates and si;icified meta-sediments on the hill-front. The largest cut, ("Hole on the Hill",) a four-foot hole containing a spring 100 feet up-hill and 150 feet northerly from the Feather River Highways exposed weathered, manganiferous coated clay slates with east-west foliation and 70-degree north dip, which appears to be in part downhill slump.

Parcel 3. Examination was confined largely to the discovery area lying between the Feather River Highway and the River. At River level, fresh unaltered rock is well exposed with foliation not pronounced and jointing well developed, with a 20-degree westerly dip. Foliation is obscure, out east-westerly and near vertical from a few feet to fifteen feet above river level, the joints widen and are filled with culcareous cementation. Further up the bank, mineral springs become common, the rock becomes closely jointed parallel to foliation and is covered by a three to five-foot zone of manganiferous soil and pods of calcareous tufa. This condition extends 100 feet easterly from the discovery point and 200 feet westerly.

Adjacent to the mineral springs, cuts show the manganiferous soil gracing down into highly altered clay slate.

In the road cut on the north side of the road and above the zone of manganiferous soils and springs, the rock is deeply weathered with soil cover, out with no evidence or mineralization. A tunnel about 30 feet above the road level appears to be over 100 feet in length and follows a manganiferous soil zone at least 50 feet. This zone is 2 to 3 feet thick and well defined, with red clay boulder soil above and weathered clay slates below. It appears to cover several acres on the bench above ~~xxxxxxx~~ the road.

Shallow bulldozer cuts on the slope above this tunnel exposed weathered clay slates and occasional manganiferous nodules.

Radiation Surveys:

A detailed radiation survey was carried out along the Road Cut in Parcel 1. The weathered outcrop at the South end gave readings up to 4 milliroentgens with background of .06 milliroentgens. A channel sample taken on a six-foot width did not show appreciably over background count. This sample was discarded and the sample submitted from a 12-inch width. This sample showed a radiation over twice background. (This sample 4 not assayed because of low radioactivity.)

In the remaining 800 feet of traverse, only two small spots of high radioactivity were discovered. One appeared to be only three inches wide in the quartzites, (sample 5 not assayed for lack of radioactivity,) and appeared to be the result of joint coating by a secondary radioactive mineral. The other radioactive point was a dollar-size nob of calcareous tufa at a seeping joint.

Radiation surveys on the hill front facing the Feather River Hot Springs Resort showed only one conclusively radioactive area at the "Hole on the Hill", (100 feet up and 150 feet north of the north edge of the Feather River Highway opposite the Service Station.) Here the east edge of the hole was radioactive to 8 milliroentgens. Samples 6 and 6A were taken from this locality. Sample 6A was not assayed; Sample 6 radio-assayed. 05 percent U_3O_8 equivalent.

Radiation surveys of 805 feet along east bank of Hot Spring Creek from the South Line of Parcel 2 showed only slightly above normal to double background from 305 feet northerly to 775 feet. At 775 feet, a spring flows from a 2-foot cut. Radioactivity here on the black manganiferous soil was up to 8 milliroentgens per hour. It was impossible to determine rock radioactivity because of high, mass radioactivity in the area. Sample 9, a grab sample of the harder quartzite and clay slate, gave an off-area count of .5 to 1.0 milliroentgens. The softer, altered clay slates, (Sample 8,) gave off-area readings of up to 1.8 milliroentgens. Black manganiferous soils gave off-area reading up to 4 milliroentgens. (Sample 7, 1.64 percent U_3O_8 equivalent.)

Radiation was checked at several cuts at the Discovery site in Parcel 3. The black manganiferous soils gave counts up to 8 milliroentgens, the calcareous tufa counts up to .15 milliroentgens, with background of .05.

The underlying weathered clay slate and quartzite gave intensities negative to three times background.

The bulldozer pits directly uphill from the Discovery site were systematically checked for radioactivity. Neither the deeply weathered soils, the hard-rock outcrops, nor the manganiferous nodules showed radioactivity perceptibly above background.

The tunnel 30 feet above highway level along a continuous manganiferous soil zone gave readings up to three times background in the first 25 feet of tunnel.

All radiation surveys were conducted with a precision Radiation Instrument, Gieger Counter, Model 107B, AEC No. SGM 49 B.

ASSAY REPORTS

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JUN - 6 1956

A. H. HOLLAND, PRES.
EDMUND E. PHILLIPS, VICE-PRES.—GEN. MGR.

OUR MOTTO:—WHAT THERE IS IN IT, NO MORE, NO LESS.

M. E. HOLLAND, TREASURER
M. E. PHILLIPS, SECRETARY

THE COLORADO ASSAYING COMPANY, INC.

(INCORPORATED)

ASSAYERS AND CHEMISTS

2013 WELTON STREET
DENVER 1, COLORADO

Dec. 13, 1954.

REPORT ON DETERMINATIONS MADE FOR— Mr. L. R. Stokes,
Paradise, Calif.

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT	Value per Ton Dollars	Value per Ton Cents
#13 R. W.	Uranium Oxide			0.11%		
	Radium			1.7 milligrams per ton		

Discovery site
Porter

gram = 0.03527 oz

1 oz = 28.35 grams.

GOLD AT _____ PER OUNCE
LEAD AT _____ PER UNIT

SILVER AT _____ PER OUNCE
COPPER AT _____ PER UNIT

THE COLORADO ASSAYING COMPANY

By Edmund Phillips

FORM A-6

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JUN - 8 1955

REPORT OF ASSAY

ABBOT A. HANKS, INC.

ASSAYERS. CHEMISTS. ENGINEERS
624 SACRAMENTO STREET
SAN FRANCISCO.

October 28, 1954

DEPOSITED BY Webster Rutledge
2943 Broadway
Oakland, California

SAMPLE OF ORE

Labty. No.	Mark	GOLD, per ton of 2,000 lbs. Troy Ounces	GOLD, Value @ $35.00 oz.	SILVER, per ton of 2,000 lbs. Troy Ounces	SILVER, Value @ $	Percentages
						URANIUM OXIDE
74471	#1					0.09 %
72	#2					0.22
73	#3					0.06
74	#4					0.005
74476	Composite of 4 samples					MANGANESE - 3.78 %

Sample Location
Discovery Site
Pontera Prop.

ABBOT A. HANKS, INC.

bob

J. BENJ. PARKER

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NEVADA MINERAL LABORATORIES

336 MORRILL PHONE RENO 21001

RENO, NEVADA

ASSAY CERTIFICATE

M. L.R.Stokes 11-10-54

WE HAVE ASSAYED YOUR ..... SAMPLES AND FIND ..... CONTAINS: (PER TON OF 2000 LBS.)

NO.	MARK	GOLD Ozs. per Ton	VALUE GOLD	SILVER Ozs. per Ton	LEAD Per Cent Wet	COPPER Per Cent	MERCURY Lbs. Per Ton	ZINC Per Cent	WO3 Per Cent	LIME CaO	Per Cent
1	Yellow material at Discovery site										Uranium U308 0.06

Remarks:

Charges: Paid

J. Benj. Parker

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JUN - 6 1955

ABBOT A. HANKS, INC.
ENGINEERS, ASSAYERS, CHEMISTS, METALLURGISTS
CONSULTING - TESTING - INSPECTING
ESTABLISHED 1880
624 SACRAMENTO STREET
SAN FRANCISCO 11, CALIFORNIA
TELEPHONE GARFIELD 1-1687

August 29, 19[illegible]

I. N. Stokes
General Delivery
Paradise, California

Dear Sir:

At your request we have made an analysis and spectrographic test on a sample which you sent us and have to advise you as follows:

Lab. No. [illegible] - Your Mark [illegible]

Silicon Oxide	-	[illegible]
Manganese	-	22.38
Iron	-	[illegible]
Uranium Oxide	-	[illegible]
Barium	-	5.52
Thorium	-	None Found

Respectfully submitted,

Abbot A. Hanks, Inc.

By F. G. Bee

FGB/[illegible]

UNITED STATES

DEPARTMENT OF THE INTERIOR

Bureau of Mines

1605 Evans Avenue

Reno, Nevada

April 20, 1955

Ref: 15385

Mr. Wessley W. Paulsen
Route 2, Box 948
Chico, California

My dear Mr. Paulsen:

Your samples received April 13th have been identified as follows:

No. 6 - 100' N Hot Springs - Siliceous weathered carbonaceous shale rubble containing 0.05 percent U_3O_8 equivalent.

No. 6A - 79' above highway - Same as No. 6 contains 0.01 percent U_3O_8 equivalent.

No. 8 - Weathered silicified sericite shale containing 0.01 percent U_3O_8 equivalent.

No. 9 - Same as No. 8, Contains 0.01 percent U_3O_8 equivalent.

No. 11 - Same as No. 6. Contains 0.025 percent U_3O_8 equivalent.

Black Dirt - Earthy manganiferrous rock rubble containing 1.64 percent U_3O_8 equivalent.

Northing else of any possible strategic importance could be detected mineralogically. A copy of this report is being referred to the U. S. Atomic Energy Commission field office for their evaluation. If this material is of possible economic value or if a field examination is warranted, they will contact you.

Sincerely yours,

/s/ T. R. Graham

T.R. Graham
Division of Mineral Technology, Reg. II

Copy to: E. E. Thurlow, Salt Lake City, Utah.

RECEIVED
OCT - 8 1955

AGREEMENT OF SALE OF LEASES, MINING AND PLACER CLAIMS, MINERAL RIGHTS AND REALTY

THIS AGREEMENT made and entered into this 29th day of March, 1955, between L. R. STOKES, also known as LEE R. STOKES, hereinafter called Seller, and URANIUM COMBINED METALS COMPANY, a copartnership hereinafter called Buyer.

RECITALS:

1. Seller is the owner of mineral rights to approximately eighty (80) acres of land, more or less, situate in Plumas County, California, more particularly described as follows:

> Northeast quarter of northeast quarter of Section 24, Township 25 north, Range 8 east, M. D. B. M.; East one-half of southeast quarter of southeast quarter of Section 13, Township 25 North, Range 8 east, M.D.B.M.; West one-half of southwest quarter of southwest quarter of Section 18, township 25 north, Rang 9 east, M.D.B.M.; West one-half of northwest quarter of northwest quarter of Section 19, Township 25 north, Range 9 east, M.D.B.M.,

together with surface rights and fee simple of some of said realty comprising 15 acres, more or less, more particularly described as follows:

> Northwest quarter of northeast quarter of northeast quarter of Section 24, Township 25 north, Range 8 east; North one-half of southwest quarter of northeast quarter of Northeast quarter of Section 24, Township 25 north, Range 8 east.

That said mineral rights are more particularly described or expressed as follows: As a reservation unto the undersigned, his heirs, successors and assigns of all uranium ores, gas, oil and other valuable minerals of every kind and character, lying 100 feet or more under the surface of the lands hereby conveyed, together with the right to mine and operate said lands, 100 feet or more beneath the surface thereof, for such mineral deposits, mineral oil, natural gases and uranium ores in any and all miner-like methods deemed necessary by the undersigned, his heirs, successors or assigns, for the purpose of extraction or removal of said

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ATTORNEY AT LAW
SUITE 510, 926 J BLDG.
SACRAMENTO 14, CALIF.
GILBERT 2-0403

mineral deposits, mineral oils, natural gases and uranium ores therefrom.

That all of the aforesaid property and property rights as above-described are hereinafter referred to as Stokes property.

2. Seller owns that certain Placer claim situated in the County of Plumas, State of California, more particularly described as follows:

> North one-half of the Northwest quarter of the Northeast quarter of Section 24. The Southwest quarter of the Southeast quarter and the West half of the Southeast quarter of the Southeast quarter of Section 13, Township 25 North, Rang 8 East, M. D. B. & M.
>
> Reference is hereby made to Starlight placer claim fully described in the original notice of location, which is recorded in Vol. 21 at Page 30, Placer Claims, Plumas County Records at Quincy, California.

Seller owns an additional quartz mining claim situated within the boundaries of said real property described in this recital known as the White Quartz Claim which is fully described, and to which reference is made, in the original notice of location which is and was recorded June 19, 1935, in Volume 20 of Quartz Claims at Page 334 of the official records of said Plumas County.

Seller owns an additional two quartz mining claims situated within the boundaries of said real property described in this recital and is in the process of perfecting title thereto; that said claims are named as and are fully described, and to which reference is made, in the original notices of location which were and now are recorded March 24, 1955, in the official records of said Plumas County as follows:

(a) Uranium Fever, Volume 30, of Quartz Claims at page 341

(b) Uranium Fever No. 2, Volume 30, of Quartz Claims at page 342

That all of the foregoing claims are hereinafter referred to as Mining Claims.

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3. Seller is lessee of approximately sixty (60) acres of land situated in Plumas County, California, pursuant to that certain lease terminating as extended on July 1, 1959, by and between Mark Twain Porter, Cora P. Porter and Jean Porter as lessors and L. R. Stokes as lessee, dated September 29, 1953, reference to which is made for further particulars; that said property is more particularly described as follows:

> All that part of the N 1/2 of the NW 1/4 of Sec. 24, Tp. 25 N. R. 8 E., M.D.M., which lies northerly of the center line of the East Branch of the North Fork of Feather River (sometimes called Indian Creek);
>
> Excepting the portion thereof conveyed by Cora P. Porter and H. G. Porter to the State of California, by deed dated November 25th, 1929, and recorded in Volume 62 of Deeds, at page 267, Plumas County, California, Records.

Said lease was recorded on the 1st day of October, 1953, in Volume 68 of Official Records of said Plumas County at Page 344. That thereafter and on the 20th day of October, 1954, said lease was extended in term to the 1st day of July, 1959, said extension being recorded in Volume 79 at Page 294 of Official Records of Plumas County. That all of the above properties are hereinafter referred to as Porter property.

4. Seller is lessee and purchaser optionee of oil and mineral rights of approximately twenty-five hundred (2500) acres of land situated in Plumas County, California, pursuant to that bond and lease terminating on September 20, 1964, by and between L. R. Stokes as lessee and optionee and A. C. Dellinger and Ruth Dellinger as lessors and optionor, dated September 21, 1954, reference to which is made for further particulars; that said property is more particularly described as follows:

> Parcel One: Genesee Placer Claim, comprising the NW 1/4 of the NE 1/4; S 1/2 of the NE 1/4 of the NE 1/4, and the NE 1/4 of the SE 1/4 of the NE 1/4, allin Sec. 27, Tp. 25 N., R. 11 E., M.D.B. & M.; the SW 1/4 of the NW 1/4 of the NW 1/4, and the NW 1/4 of the SW 1/4 of the NW 1/4 of Sec. 26, Tp. 25 N., R. 11 E., M.D.B. & M.
>
> Parcel Two: The N 1/2 of NW 1/4, in Section 6, T. 26 N., R. 8 E., and the S 1/2 of SW 1/4 in Section 31, T. 27 N., R 8 E., M.D.M., containing 160 acres.

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GILBERT 2-0403

Parcel Three: The NE 1/4 of the SE 1/4; the E 1/2 of the NE 1/4 of Sec. 25, T. 27 N., R. 10 E., and Lot 3, Sec. 30, T. 27 N., R. 11 E., M.D.M.,

Parcel Four: The Southeast one-quarter of Section 1; the Northeast one-quarter, the Northeast one-quarter of the Northwest one-quarter, the South one-half of the Northwest one-quarter, and the Northeast one-fourth of the Southeast one-quarter of Section 11; all of Section 12; the North one-half of the Northeast one-quarter, and the Northwest one-quarter of the Northwest one-quarter of Section 13, all in Township 25 North, Rang 8 East, M.D.B. & M.,

Lots 2, 3, & 4, in Section 4; Lots 2, 3, 4, 5, 6, the East one-half of the Southwest on-quarter, the West one-half of the Southeast one-quarter of Section 6; Lots 1, 2, 3, 4, the East one-half of the Southwest one-quarter, and the North one-half of the Southeast one-quarter of Section 7: Lot 1 in Section 18, all in Township 25 North, Rang 9 East, M. D. B. & M.,

Lot 4, the Southeast one-quarter of the Southwest one-quarter and the Southwest one-quarter of the Southeast one-quarter in Section 30; Lots 1, 2, 3, 4, the West one-half of the Northeast one-quarter, the East one-half of the Northwest one-quarter, and the East one-half of the Southwest one-quarter of Section 31; the Southwest one-quarter of the Southwest one-quarter of Section 33, all in Township 26 North, Rang 9 East, M.D.B. & M.

Parcel Five: The E 1/2 of the SW 1/4; the Southeast quarter of the NW 1/4; Lot 2 of Northwest quarter of Section 30, T. 27 N., R. 11 E., M.D.M.

The above described property shall hereinafter be referred to as the Dellinger properties.

5. Upon the terms and conditions as set forth hereinbelow, the Seller is desirous of selling said property to Buyer.

W I T N E S S E T H :

That Seller, in consideration of the payments to be made by the Buyer and the conditions and covenants to be kept and performed by him, as hereinafter set forth, agrees to sell and the Buyer agrees to buy said property described hereinabove in the recitals hereinabove for the sum of Twenty-six Thousand Dollars ($26,000.00) in lawful money of the United States of America, and the Buyer, in consideration of the premises, promises and agrees to pay to Seller the aforesaid sum of money, for all of said real property as follows, to wit: Four Thousand Dollars ($4,000.00) upon the execution and delivery hereof, the receipt whereof is hereby acknowledged, and

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GILBERT 2-0403

the balance of Twenty-two Thousand Dollars ($22,000.00), without interest, as follows: Five Thousand Dollars ($5,000.00) on each of the first days of January and July 1956, and Twelve Thousand Dollars ($12,000.00) on the first day of January 1957. All payments to be made to the Buyer shall be paid with lawful money of the United States of America.

IN ADDITION IT IS AGREED AS FOLLOWS, TO WIT:

First: Possession shall be delivered to the Buyer upon the execution and delivery of this agreement.

Second: Buyer agrees to pay all taxes or assessments on said property and equipment before the same becomes delinquent; and agrees to furnish first party with evidence of payment of all taxes and assessments at least thirty (30) days before said taxes or assessments would become delinquent.

Third: Seller on receiving payment of all amounts of money mentioned herein within the time herein prescribed shall execute a grant deed to said Stokes property; a quitclaim deed to said Mining Claims and assignments of said Porter and Dellinger leases in favor of said Buyer and shall deliver said deeds and assignments to said Buyer, together with said leases. Buyer shall furnish own title insurance as may be obtainable by Buyer.

Fourth: Buyer has the option without notice on any due date of any of said payments set forth hereinabove to either (a) pay the accrued and due purchase payment as set forth above, or (b) elect without notice to forfeit all properties back to the seller herein and neit er pay nor be obligated to pay said installment payment of payments there or thereafter to become due pursuant to this contract of sale and obligations hereto of either party shall determine except obligations theretofore accrued under said Dellinger and Porter leases. That a violation of any condition, covenant, provision or agreement herein contained on the part of the Buyer to be kept or performed, shall constitute a violation of

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this entire agreement; that in the event of such violation, the Seller, at his option, may thereupon give notice to the Buyer of such violation and in the event that the violation or defect is not cured within thirty (30) days, that the Seller, may at his option, declare this contract terminated and ended. In the event the said contract is terminated or ended for a violation of any term or failure to perform any term, covenant, condition or agreement herein contained, that Buyer will peaceable surrender the said premises together with all improvements thereon, to the Seller and the Seller may repossess the said premises with or without force. That in the event Seller does not notify the Buyer of any violation of any term, covenant, condition or provision herein contained, and/or declare a forfeiture for such violation, such failure shall not constitute a modification or waiver of such term or such violation.

Fifth: Should Seller sue the Buyer to enforce this agreement or any of its terms, the buyer shall pay a reasonable attorney's fee and all expenses in connection therewith.

Sixth: The Buyer shall dispose of any debris and tailings in conformity with law and without injury to any other individual or property. That the Buyer will be personally liable for any damage resulting from disposition of debris or tailings.

Seventh: The waiver by the Seller of any covenant, condition or agreement herein contained shall not vitiate the same or any other covenant, condition or agreement contained herein and the terms, conditions, covenants and agreements set forth herein shall apply to and bind the heirs, successors, and assigns of each of the parties hereto. Time is the essence of this agreement.

Eighth: All words used in this agreement, including the words Buyer and Seller, shall be construed to include the plural as well as the singular number and words used herein in the present tense shall include the future as well as the present and words

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used in the masculine gender shall include the feminine and neuter.

Ninth: Buyer does hereby assume the lessees' obligations under and provided by and required by said Porter and Dellinger leases, or said lessors.

Tenth: Buyer has the right and privilege to forthwith engage in necessary development and exploration for mineral and hydrocarbon resources upon in and under the surface of said properties as are conveyed and described herein as seem warranted solely in the opinion of buyer.

Eleventh: That all of the terms, covenants and conditions herein are as expressed herein, and that there are no other promises, inducements or representations made or relied upon by any part to this contract other than as provided herein.

Twelfth: Buyer covenants, promises and agrees, at his own expense, to keep up all the necessary assessment work and other governmental requirement in order to maintain said Mining Claims vested in the parties to this contract on or before June 1, of the year required and cause forthwith proof of labor to be recorded for the benefit of seller.

Thirteenth: That all operations and conduct upon said properties by Buyer, its agents, employees or other privies in interest or its assigns, heirs or representatives shall be in accordance with the covenants and conditions of said leases and all government law, rules and regulations.

Fourteenth: Said contract may be modified or altered only by further agreement in writing duly executed by all the parties hereto.

Fifteenth: Seller hereby covenants, promises and agrees not to sell, mortgage, encumber or do any other act or thing the effect of which is to diminish and further impair the title to said property so long as this contract remains in force.

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GILBERT 2-0403

Sixteenth: This contract may be recorded.

Seventeenth: That Buyer shall keep all persons employed in or about the said mining property, fully insured against liability under the provisions of the Workmen's Compensation Insurance Acts. That Buyer shall not allow any liens to accrue by or through their act, for labor done, materials furnished, damages, or any other form of indebtedness during the full term of this agreement. That the Seller may post notices of non-responsibility or non-liability for labor or materials upon the said property and that Buyer will see that said notice or notices are maintained and posted in a conspicuous place or places.

Eighteenth: The time of such notice of notices shall be computed from day of delivery to the post office, post paid, to such addressee at any post office in the State of California.

It is further understood and agreed that whenever this agreement provides for the giving of notice or notices, such notice or notices to either Buyer or Seller shall be given in writing by registered mail return receipt requested addressed to Seller as L. R. Stokes, 8423 Skyway, Paradise, California, or to Buyer as Mr. Colonel R. Carnes, Uranium Combined Metals Company, c/o Clarence H. Pease, Esq., Suite 510, 926 J Building, Sacramento 14, California. Said addresses shall remain in effect as the official address for receipt of notices by Buyer and Seller unless and until changed or modified by either by notice as prescribed herein.

Nineteenth : That the Buyer will, upon the execution of this agreement, execute a good and sufficient quitclaim deed to the property described herein to the Seller and will deposit said quitclaim deed in escrow with such bank or trust company or other escrow holder as shall be agreed upon by the parties to this agreement for the deposit of returns from the property covered by this agreement, with an originally executed copy of this agreement and instructions directing that said deed be delivered to Seller

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GILBERT 2-0403

in the event Buyer defaults or otherwise terminates this agreement or it is otherwise terminated for non-performance. In the event this said agreement and all terms thereof are complied with by Buyer, the said deed shall be delivered to Buyer by the said escrow holder, upon the final payment to Seller of the entire purchase price.

Twentieth : That the Buyer shall have the right to assign this contract, without the written consent of the Seller first had and obtained; and in the event of such assignment, Buyer shall give notice thereof to Seller of any such assignment, enumerating therein the name and address of the assignee for notice pursuant to paragraph Eighteenth above, and no assignment shall be binding or effective as against Seller until receipt of such notice of assignment is given in the manner as in this agreement provided for.

Twenty-first: That upon the termination of this lease for a violation of the terms or a failure to perform any covenant, term, provision, condition or agreement therein contained, the first party shall be entitled to the possession and occupancy of the said premises and each and every part thereof.

Twenty-second: Seller shall and does have the right at any reasonable time to go upon said premises or any part thereof inclusive of underground workings for the purpose of inspecting any operations being carried on thereon.

IN WITNESS WHEREOF, said parties have executed this agreement as of the day and year first above written.

(L.R. Stokes)

Also known as

(Lee R. Stokes)

URANIUM COMBINED METALS COMPANY,
a Copartnership,

By
(Colonel R. Carnes, a General Partner)

CLARENCE H. PEASE
ATTORNEY AT LAW
SUITE 510, 926 J BLDG.
SACRAMENTO 14, CALIF.
GILBERT 2-0403

STATE OF CALIFORNIA)
(ss.
COUNTY OF)

On this _____day of March, 1955, before me,_____ _____, a Notary Public in and for said County, personally appeared L.R. STOKES, also known as LEE R. STOKES, known to me to be ther person whose name is subscribed to the foregoing instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

_____
Notary Public in and for said County and State

(Notarial Seal)

CLARENCE H. PEASE
ATTORNEY AT LAW
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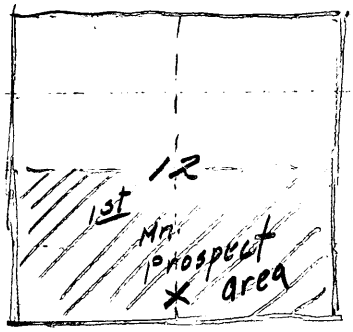
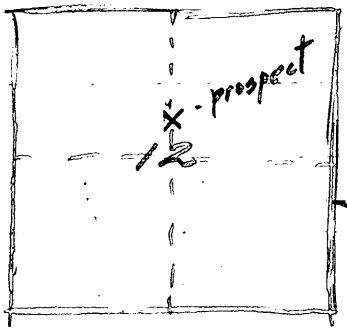
SACRAMENTO 14, CALIF.
GILBERT 2-0403

New — Manganese application



29N

? Lease.



in canyon due North of 1st prospect

29°N

This section O.K. Lease. "DeMinger properties"

Surname copy

Murphy 700
Ellis
Martin

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

NOV 16 1955

Mr. Clarence H. Pease
Attorney at Law
Suite 510, 926 J Building
Sacramento 14, California

Re: Docket No. DMEA-3849 (Uranium)
Uranium Combined Metals Company
Stokes, Porter, and Dellinger
properties
Plumas County, California

Dear Mr. Pease:

This is to acknowledge your letter, dated November 9, 1955, directed to the attention of Mr. Frank E. Johnson; also, the enclosed geolgic report and assay certificate, which indicate the possibility that manganese deposits occur on your property.

The above-docketed application has been closed. However, you may submit a new application for aid in a manganese exploration project. The Government contributes 75 percent of the cost on approved manganese exploration projects.

If a new application is submitted, please include all the necessary information we require. We have copies of the "Agreement of Sale of Lease" on the various properties pertaining to the above-docketed application; however, Sec. 12, T. 29 N., R. 8 E., is not mentioned in the documents.

In regard to the new proposed project, maps showing the area to be explored should be submitted. The approximate location and extent of the proposed work should be indicated on the maps. Also, the location and assay values of any samples you have procured should be shown.

We are enclosing five copies of the application form. We require four copies each of the application form and all exhibits. If you desire further information, please contact this office or Mr. Spangler Ricker, Executive Officer, DMEA Field Team, Region II, U. S. Bureau of Mines, 1605 Evans Avenue, Reno, Nevada.

FMMurphy/gla 11-15-55
cc to: Admr.'s Reading File
Docket
Messes. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JOHosted, Rm. 3210, GSA
Code 700 Mr. Murphy
Enclosures DMEA Field Team, Region II (2)

Sincerely yours,

C. O. Mittendorf

Administrator

R.G.S.

11-14-55 signed

CLARENCE H. PEASE
ATTORNEY AT LAW
SUITE 510, 926 J BUILDING
SACRAMENTO 14, CALIFORNIA

GILBERT 2-0403

November 9, 1955

Uranium Combined Metals
denied 10/27/55

United States
Department of the Interior
Defense Mineral Exploration Administration
Washington 25, D. C.

Attention: Frank E. Johnson, Acting Administrator

Re: Docket No. DMEA-3849 (Uranium)
Stokes, Porter, and Dellinger properties
Plumas County, California

Dear Mr. Johnson:

Although you have reviewed our application and data submitted to date and have determined that the showing was not sufficiently promising to justify government participation, we do at this time wish to amend our proposal for a different phase of development of the same properties.

I enclose a copy of the geological report involving manganese showing and also a copy of the assay report of samples taken by our Geologist, Mr. Paulsen.

In view of these matters, could there be a reconsideration of development loan based upon this information or additional information that you may request from us.

Very truly yours,

Clarence H. Pease

Clarence H. Pease

CHP:ib
Encl.

WESSLEY W. PAULSEN
Consulting Geologist
926 BRYANT AVENUE — TELEPHONE FIRESIDE 2-5823
CHICO, CALIFORNIA

WELLS, IRRIGATION AND DOMESTIC
MINING GEOLOGY
RADIATION SURVEYS
PETROLEUM GEOLOGY
WATER SUPPLY AND MINERAL
EVALUATION FOR REAL ESTATE

October 31, 1955

Dear Mr. Carnes:

Two manganese prospects in the south ½ of Section 12, Range 8 East, Township 29 North, M.D.B and M., were examined by me on October 27, 1955. The first prospect located near the south ¼ corner of section 12 near elevation 4,700 feet. The property is reached by a fair summer road, which is suitable for heavy truck haulage. This road leads directly to the prospect from Highway 40 and is three miles long.

The ore deposit consists of the manganese mineral pyrolusite and also as a pyrolusite filling in shattered quartz. The pyrolusite occurs as veins of the mineral, completely free of other minerals in a net work of veins in a mineralized belt of the Shoo-fly formation of Carboniferous age. Also as cross veins in a 20 inch wide quartz vein on the foot-wall of the mineralized zone. Pyrolusite occurs as 3 to 6 inch cross veins every 15 to 24 inches in the quartz vein. The mineralized zone on the hanging wall of this vein is 30 feet wide and carries cross veins of pyrolusite as in the quartz vein but the inter-stitial material is a quartz-pyrolusite breccia (shattered rock with in-filling of pyrolusite). Westerly from the above descrioed outcrop another outcrop of similar manganese breccia and pyrolusite occurs and may be a paralell and additional deposit. Southerly down slope the mineralization extends over 100 feet and indications are it extends further under over-burden.

Estimates based on the above examination indicate that at least 10% of the material may be hand-picked high grade manganese dioxide (pyrolusite) worth up to $100 per ton at ~~the Deming, New Mexico, buying station of the J.S.A. of the U.S. government~~. Another 20% is manganese-quartz breccia running 50% manganese. On manganese content worth $[illegible] per ton.

Conservative estimate of high grade ore is 100 tons and 1000 tons of 50 % ore. Mining of these tonnages can be accomplished by open quary and hand picking at low cost. Large additional tonnages no doubt can be developed but are not in sight with present development.

I am sending samples of both types of ore to Columbia Steel at Pittsburgh, California and the Deming, New Mexico ore buying stations with request for evaluation and price.

The other prospect is near the center of Section 12, Range 8 East, Township 25 North, M.D.B and M. in a canyon due north of the

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Consulting Geologist
926 BRYANT AVENUE — TELEPHONE FIRESIDE 2-5823
CHICO, CALIFORNIA

WELLS, IRRIGATION AND DOMESTIC
MINING GEOLOGY
RADIATION SURVEYS
PETROLEUM GEOLOGY
WATER SUPPLY AND MINERAL
EVALUATION FOR REAL ESTATE

first prospect. It may be a discontinuous extension of the same deposit. There has been little development but logging scars have exposed enough to indicate a deposit potentially as good as the first described. Development could be carried on at the same time as mining on the initial prospect.

Yours very truly,

Wessley W. Paulsen

MORSE LABORATORIES

RESEARCH, ENGINEERING, ANALYTICAL

316 SIXTEENTH STREET
SACRAMENTO 14, CALIFORNIA
HUDSON 1-2572

November
Fourth,
1955

Mr. C. R. Carnes
2632 Fulton Avenue
Sacramento, California

#33680

Manganese (Mn)	53.85%
Silica (SiO_2)	.72%

MORSE LABORATORIES

G. H. Morse
by J. Myers

GHM/jm
cc: W. E. Paulsen

Surname copy

700

Murphy
Ellis
Bishop
Selfridge
Kilgoard

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

OCT 27 1955

Mr. Calamal R. Carnes, General Partner
Uranium Combined Metals Company
2632 Fulton Avenue
Sacramento, California

Re: Docket No. DMEA-3849 (Uranium)
Stokes, Porter, and Dallinger
properties
Plumas County, California

Dear Mr. Carnes:

Your application for aid in an exploration project and other information available to us in Washington concerning your above-named property have been reviewed.

Projects approved by the Defense Minerals Exploration Administration must, in its judgment, show definite promise of yielding materials of acceptable grade in quantities that will significantly improve the mineral supply position for the National Defense Program.

Careful study of all our information, although noting a small amount of uranium mineralization on your property, indicates to us that the probability of disclosing minable ore reserves by your proposed program is not sufficiently promising to justify Government participation. We regret to advise you, under these circumstances, that your application for exploration assistance is denied.

We wish to thank you for your interest in the Defense Minerals Program and for bringing your property to our attention.

Sincerely yours,

Frank E. Johnson
(by CSF)
Acting Administrator

Copy to: Mr. Clarence H. Pease
Attorney at Law
Suite 510, 926 J Building
Sacramento 14, California

FMMurphy/gla 10-20-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. JECrawford, Rm. 3641
THKiilsgaard, Rm. 5224
JCHosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region II (2)

R.A.R.

CKET COPY

Murphy
Ellis

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

October 20, 1955

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No.: DMEA-3849

Commodity: Uranium

Applicants: Uranium Combined Metals Co.
Colonel R. Carnes, General Partner
2632 Fulton Avenue
Sacramento, California

Property: Lessee. The land consists of portions of secs. 13 and 24, T. 25 N., R. 8 E., and secs. 18 and 19, T. 25 N., R. 9 E., M.D.B.& M., Plumas County, California.

Date of application: May 24, 1955

Referred to Region II, June 29, 1955
Region II report received, October 10, 1955

Amount of application: $25,000.00

Work proposed and Estimated costs:

(1) 400 feet core drilling @ $5/ft.	$2,000.00	
(2) 800 feet core drilling @ $6/ft.	4,800.00	
(3) Bulldozing road	1,000.00	
(4) Surveying and geologizing	4,000.00	
Total		$11,800.00

Applicant did not specify the other work which would bring the total up to $25,000.00 for the project.

Excerpts from Field Team report:

The properties are located near the Feather River and U. S. Highway 40, in the vicinity of Frank Stowell's Service Station. The prospects are located along Hot Spring Creek.

The previous exploration work consisted of shallow pits (2 cu. yds. or less) and diamond drilling two holes, one 20 feet in depth, the other 40 feet. No core was recovered.

The claims are underlain by metamorphosed sedimentary rocks consisting of dark gray clay slates and interbedded chert with occasional thin beds of tuffaceous rocks and quartzite. A few of the slate beds are carbonaceous and contain small blebs of pyrite. Some manganiferous material is associated with the chert beds. Bedding and schistosity are parallel and strike east; dips range from vertical to 75° north.

A few small deposits of calcareous, limonitic, and manganiferous sinter have been deposited by hot springs associated with minor steeply-dipping longitudinal and transverse faults and joints. Most of these springs are now inactive. The deposits of radioactive material are in the limonitic and manganiferous sinter.

Radiometric readings exceeding the background count were recorded at several places on the property near accumulations of limonitic sinter. Selected samples indicated high U_3O_8 equivalent, one sample taken by USGS assayed 0.66 percent equivalent uranium and 0.001 percent uranium. Other samples taken assyed from 0.03 to 0.32 percent U_3O_8 equivalent and trace to 0.03 percent U_3O_8. The radioactive material is out of equilibrium, and radium, not uranium, is the source of most of the radioactivity.

The deposits are small, and the field examiners state that no measured, indicated, or inferred uranium reserves exist on the property; also, that no specific target exists on which a drilling program could be based.

The field examiners recommended that the subject application should be denied, and the Field Team concurred.

Commodity Members' Comments:

U. S. Geological Survey - W. P. Williams, October 14, 1955

Concurs in denial.

U. S. Bureau of Mines - J. E. Crawford, October 20, 1955

Concurs in denial.

Rare and Miscellaneous Metals Division - F. M. Murphy -
October 20, 1955

Because the deposits are small, scattered, and low grade, and also, because no specific exploration target exists, this Division concurs in the recommendation to deny the subject application.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

4F-580

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION

REFERENCE SLIP

DATE 10-21

REFERRED TO:

1. 700
2. Mr. Murphy
3.
4. Docket

FOR: denial letter

	Action		Recommendation
	Approval written +		Record
	Comment USBM portion		
	Conference		Referring
	Consideration summary		to
	Filing		Reply for signature of
	Instructions to be fenced		
	Investigation		Rewriting
	Initials		Signature
	Mailing		Suggestions
	Previous correspondence		Your information

REMARKS: Comments complete

Check (X) before the items needing attention.

Initials of sender.

GPO 16—63815-1

10/21/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

October 20, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Report of Examination, DMEA Docket 3849, Uranium Combined Metals Company, Stokes, Porter, and Dellinger properties, Plumas County, California

I have reviewed the report of examination, Uranium Combined Metals Company, DMEA Docket 3849; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

Colonel R. Carnes has applied for Government aid to explore for uranium at the Uranium Combined Metals Company property located in Plumas County, California. The $25,000.00 exploration program would consist of construction of one-half mile of access road, 1,200 feet of diamond drilling, and a survey and mapping of the area.

An examination of the subject property by the DMEA field team resulted in the conclusion that there is no geologic evidence from which to infer that a significant discovery of uranium might be made. Therefore, the field team recommends that the request for DMEA loan be denied.

We concur in the recommendation of the field examiners that the request for DMEA assistance be denied.

In accordance with the routing slip attached thereto, the report is being forwarded to the Chief, Division of Minerals.

John E Crawford
John E. Crawford

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

October 20, 1955

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BUREAU OF MINES
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John E. Crawford

10/17/55 gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
OCT 14 1955

October 14, 1955

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: W. P. Williams, U. S. Geological Survey

Subject: Review of Field Team Report, DMEA 3849, Uranium Combined Metals Company, Stokes, Porter, and Dellinger properties, Plumas County, California.

The examining team points out in their report that radium mineralization only appears to be present on the property in small amounts in hot springs deposits. This is borne out by the fact that the ore is in wide disequilibrium as evidenced by chemical and radiometric assays. The inference is then drawn that the source of the hot springs deposits would assay no higher. Chemical assays of the hot spring sinters and tufas show them to be far below ore grade.

The prospect of discovering a significant uranium ore body on the property does not seem good. I agree with the examining team's recommendation that the application for DMEA assistance be denied.

WPWilliams

W. P. Williams

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
OCT 14 1955

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W. P. Williams

WPWilliams:iml
G-10/14/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
OCT 14 1955

October 14, 1955

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G-10/14/55

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DEPARTMENT OF THE INTERIOR
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WASHINGTON 25, D. C.

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G-10/14/55

cc: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641
J. O. Hosted, 3210

10/12/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

COPY

1605 Evans Avenue
Reno, Nevada

October 5, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3849 (Uranium)
Uranium Combined Metals Company
Stokes, Porter, and Bellinger properties
Plumas County, California

Reference is made to your letter of June 29, 1955 requesting a field examination on above subject property.

Attached are four copies of a report by B. H. Sheahan, Bureau of Mines and D. B. Tatlock, Geological Survey, in which a denial of application for exploration aid is recommended.

Roscoe Smith and I concur in the recommendation.

/s/ S. RICKER

S. Ricker

Attach.

Received by
DMEA Operating Committee
10-14-55

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

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OCT 10 1955

APPLICATION REPORT

DMEA-3849 (Uranium)
Uranium Combined Metals Company
Stokes, Porter, and Dellinger properties
Plumas County, California

By

B. H. Sheahan
Mining Engineer
U. S. Bureau of Mines

D. B. Tatlock
Geologist
U. S. Geological Survey

October 4, 1955

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1 0 1955

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ILLUSTRATIONS

Fig. 1. - Location map

Fig. 2. - Index map

Fig. 3. - Geologic maps of Uranium prospects

RECEIVED
OCT 10 1955

INTRODUCTION

Colonel R. Carnes, whose address is 2632 Fulton Avenue, Sacramento, Calif., applied for Government assistance in a $25,000.00 program with the Defense Minerals Exploration Administration, to explore for uranium at the Uranium Combined Metals Company property located in Plumas County, Calif.

The application was dated May 23, 1955, and after correspondence with the company to obtain additional information, a field examination was requested by the Operating Committee on June 29, 1955. The property was examined by B. H. Sheahan, Bureau of Mines and Donald B. Tatlock, Geological Survey on August 3 and 4, 1955. They were accompanied by Colonel R. Carnes, the applicant and L. R. Stokes, an elderly prospector who is one of the owners of the land. The engineer conferred with the Reno Office of the Atomic Energy Commission regarding this deposit, which was previously examined and described by Preliminary Reconnaissance Report NC-SL-26 dated April 14, 1955.

The company proposed to construct one half mile of access road, map the area, and do 1200 feet of diamond drilling.

CONCLUSIONS AND RECOMMENDATIONS

Several shallow, residual pods of manganiferous wad and sinter, associated with warm spring deposition, shows radioactive mineralization. The material is out of equilibrium and contains insufficient amounts of

uranium to be profitably mined.

There are no ore reserves on the property and no specific exploration targets. The source of abnormal radioactivity is believed to be partly due to occurrences of radium. Chemical assays of two samples, one collected by the Geological Survey and one by the applicants, contained small quantities of radium.

The examination team recommends that the requested exploration loan be denied as there is no geologic evidence from which to infer that a significant discovery of uranium might be made.

LOCATION, ACCESSIBILITY AND LOCAL RESOURCES

The property is 15 miles by road northwest of Quincy, Plumas County, California in secs. 13 and 24, T. 25 N., R. 8 E., MDB&M and in secs. 18 and 19, T. 25 N., R. 9 E., MDB&M, along the north side of the Feather River near the foothill region of the Sierra Nevada range of mountains at an altitude of 3000 to 3500 feet

To reach the property from Quincy, California, which is the nearest town and supply center, go northerly on paved U.S. Highway 40 (Alternate) 15 miles to Frank Stowell's Service Station. The prospects are along Hot Spring Creek and can be reached by a 1/4 mile trail. Other prospects are located near the intersection of Hot Spring Creek and the Feather River and can be reached by a one tenth mile trail west from this service station. The property is accessible all year.

Water is available at Hot Spring creek. Twain, a station on the Western Pacific Railroad, is one mile west of the property and is the nearest source of electric power. Native timber is available on the land which is a portion of the Plumas National Forest.

HISTORY AND PRODUCTION

There has been no past or current production from the prospect known to the applicants. Placer mining has been conducted in the vicinity along the Feather River and some gold has probably been produced years ago from small operations.

Mr. L. R. Stokes stated that radioactive mineralization was discovered near Hot Spring Creek in 1950. He has submitted at least 20 samples to the U. S. Bureau of Mines, Reno, Nev., but the chemical analyses were discouragingly low compared to the radiometrics.

PROPERTY AND OWNERSHIP

The applicants land consists of a portion of sections 13 and 24, T. 25 N., R. 8 E., MDB&M and sections 18 and 19, T. 25 N., R. 9 E., MDB&M, Plumas County, Calif. The parcels of land are owned by Mr. Lee R. Stokes; Mark Twain Porter, Cora P. Porter, Jean Porter; and A. C. Dellinger and Ruth Dellinger. Mineral rights to the property have been optioned by Uranium Combined Metals Company, which was a co-partnership when the application was made for DMEA assistance. Colonel R. Carnes stated that the company was incorporated in California in June 1955.

Capitalization was reported to be 5,000,000 shares at $0.20 par. He stated that the corporation planned to offer no stock for sale and intended to keep the corporation closed.

The applicant plans to conduct all of the exploration work by independent contract. He has no mining experience and hopes to employ an engineer or geologist to assist him with the general supervision of the work. Mr. Carnes stated that he was a veteran of World War I, and that his given name was Colonel. He is employed by the Stephenson-Leydecker and Co., 1404 Franklin Street, Oakland 12, California, a stock and bond investment concern.

DEVELOPMENT

Exploration pits on the property are indicated on the attached Geologic map, fig. 3. Most of the pits are less than 2 cubic yards in size.

The company conducted diamond drilling operations early in July 1955 but stopped two weeks later because of difficulties encountered by the contractor. One hole was drilled to a depth of 20 feet on Parcel No. 3, and a second hole was drilled 40 feet on Parcel No. 1. No core was recovered, and a reaming bit was lost in the 40 foot hole.

There are no mining facilities and the company owns no equipment.

GENERAL GEOLOGY

The claims are in an area of moderately high relief on the west flank of the northern Sierra Nevada. The claims are underlain by regionally metamorphosed sedimentary rocks consisting of dark gray clay slates and interbedded chert with occasional thin beds of tuffaceous rocks and quartzite. A few of the slate beds are carbonaceous and contain small blebs of pyrite. Some manganiferous material is associated with the chert beds. Bedding and schistosity are parallel and strike east; dips range from vertical to 75° north. These rocks belong to the Calaveras group of probable Carboniferous age.

A few small deposits of calcareous, limonitic, and manganiferous sinter have been deposited by hot springs associated with minor steeply dipping longitudinal and transverse faults and joints. Most of these springs are now inactive. The deposits of radioactive material are in the limonitic and manganiferous sinter.

ORE DEPOSITS

No uranium minerals were seen on the Uranium Combined Metals Company claims. Radioactive material is present, however, in manganiferous and limonitic sinter. The background count of 0.03 to 0.05 mr/hr registered on a Deluxe Scintillator Precision Model 111B was exceeded at several places in the prospect areas on Parcels No. 2 and 3

(figs. 2 and 3). However, according to George W. Walker [1/] of the U. S. Geological Survey who examined this property in 1952, "A selected sample of some of the most radioactive limonitic sinter assayed 0.66 percent equivalent uranium and 0.001 percent uranium; analyses made at the Geological Survey laboratory in Denver showed radium to be the source of most of the abnormal radioactivity." The highest assay of samples taken by the applicants was 1.64 percent U_3O_8 equivalent and 0.009 percent U_3O_8 chemically.

At the proposed diamond drill hole site on Parcel No. 1 (fig. 2) no abnormal radioactivity was recorded. A traverse northward for 1,000 feet along highway U.S. 40 Alternate where near vertically dipping metasedimentary rocks are continuously exposed in a roadcut, revealed no mineralized or abnormally radioactive zones.

In the prospect area on Parcel No. 2 (figs. 2 and 3B) on Hot Springs Creek, nine pits have been dug into loose slate and chert. A few small pods up to one foot across of weathered manganiferous and limonitic sinter showed radioactivity ranging from 0.09 to 2.2 mr/hr - 3 to 50 times background. Samples of these pods assayed from a trace up to 0.53 percent U_3O_8 equivalent. The highest assay chemically was 0.03 percent U_3O_8. A small spring is still active at the largest pit

1/ Walker, G. W., Lovering, T. G., and Stephens, H. G., Radioactive deposits in California: California State Div. Mines, in press.

where the highest radioactivity was registered. The spring water was not abnormally radioactive.

In the prospect area on Parcel No. 3 (figs. 2 and 3A), the highest radioactivity came from pods of limonitic and manganiferous soil in road cut and slope debris below the highway cut. A spring is present at the south edge of a calcareous tufa deposit. Weathered manganiferous and limonitic sinter 8 feet east of the spring registered 0.35 mr/hr. Samples of the most highly radioactive pods of sinter and soil assayed 0.03 to 0.32 percent U_3O_8 equivalent and trace to 0.03 percent U_3O_8 chemically.

On the Uranium Combined Metals Company claims there is no geologic evidence from which to infer that the source of radioactive material in the spring deposits is of a higher grade than the spring deposits. The radioactive material is out of equilibrium, and radium, not uranium, is the source of most of the radioactivity.

SAMPLING

Samples were taken from the most radioactive material detected. The average grade of the deposit is, therefor, lower grade than these select samples might indicate. The location of the samples are indicated on Geologic map, fig. 3.

Sample No.	Width, feet	%, eU_3O_8	%, cU_3O_8	Remarks
S-372	2.0	0.30	0.03	Manganiferous wad
S-373	2.0	Trace	-	Schist
S-374	0.5	0.53	0.03	Manganiferous wad

Sample No.	Width, feet	%, eU_3O_8	%, cU_3O_8	Remarks
S-375	3.0	Trace	-	Schist
S-376	2.0	0.03	-	Manganiferous wad
S-377	1.0	0.03	-	" "
S-378	1.0	0.12	0.03	" "
S-379	1.0	0.32	0.03	" "

ORE RESERVES

No measured, indicated, or inferred uranium reserves exist on the Uranium Combined Metals Company claims.

PROPOSED EXPLORATION

The applicants propose to spend $6,800.00 to diamond drill three holes, one in each of the parcels Nos. 1, 2, and 3 (fig. 2).

In Parcel No. 1, a hole is to be drilled 400 feet due north at minus 45 degrees so as to intersect any uranium-bearing zones in the sequence of metasedimentary rocks to the north. No specific target exists.

At the Hot Springs Creek site in Parcel No. 2 (figs. 2 and 3B), a hole is to be drilled 200-400 feet S35°E at minus 25 degrees so as to intersect at depth a possible downward continuation of the highly radioactive material on the surface southeast of the drill hole site. A second hole may also be drilled from this site 150 feet N25°E at minus 30 degrees. No specific target exists. The applicants propose to spend $1,000.00 to construct a road to this drill site from highway U.S. 40 Alternate.

At the diamond drill hole site on Parcel No. 3, a hole is to be drilled 200 to 400 feet due north at minus 45 degrees so as to intersect any uranium-bearing zones in the near vertically dipping metasedimentary rocks to the north. No specific target exists.

The applicants propose also to spend $4,000.00 for the surveying and geologic mapping of approximately 2,500 acres of non-contiguous land.

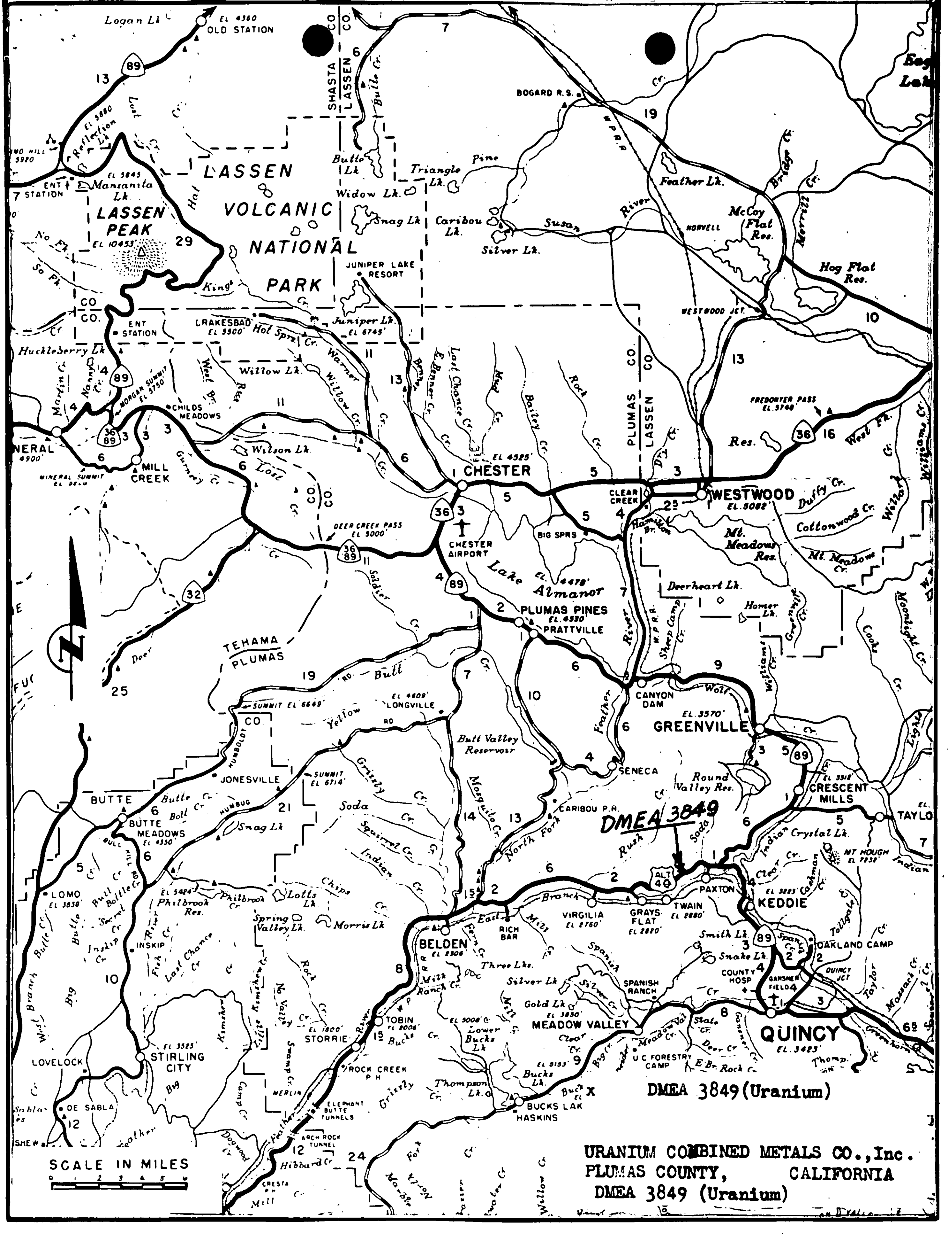

Fig. 1 LOCATION MAP CALIFORNIA

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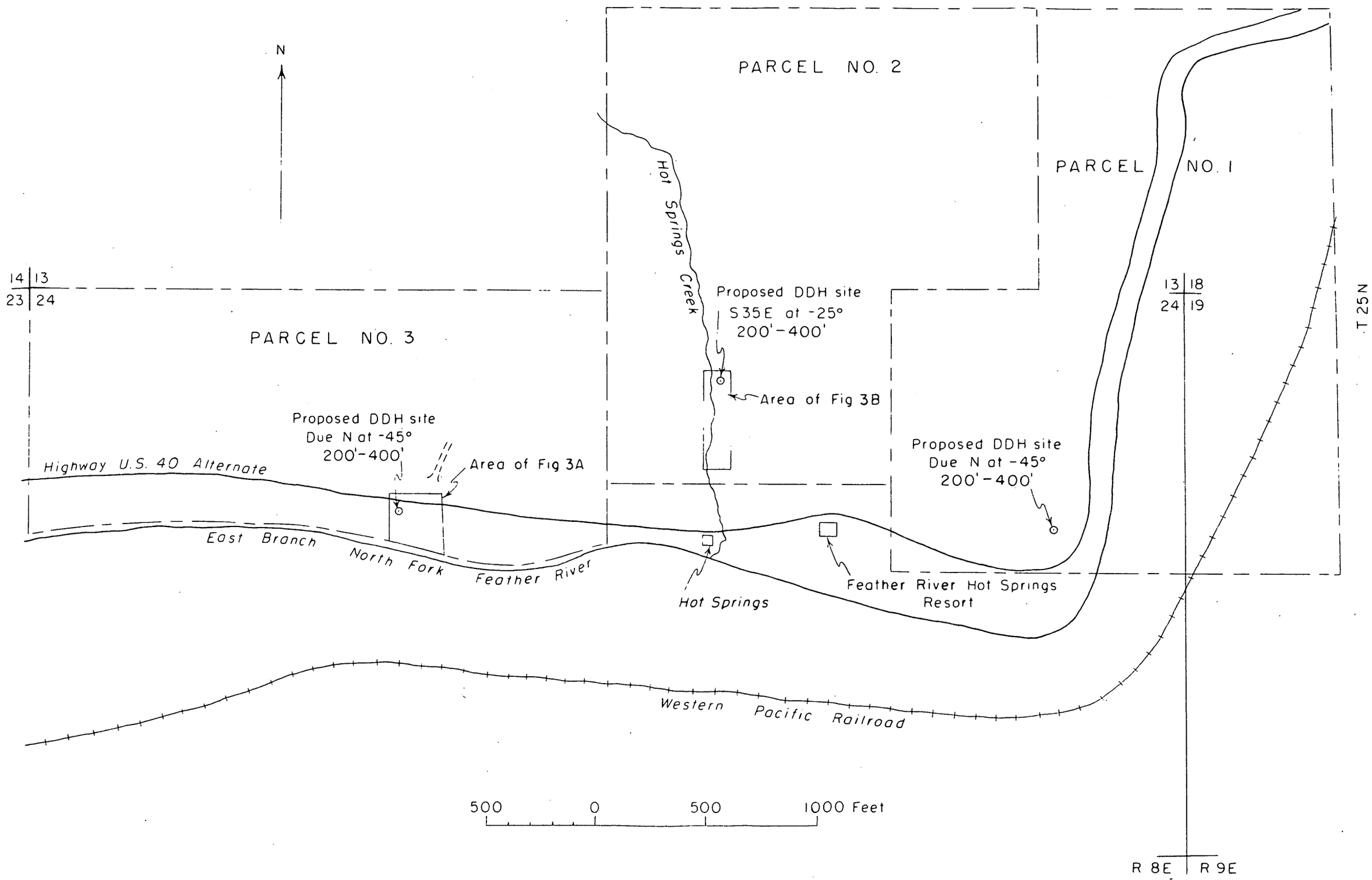
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3849
(URANIUM)



INDEX MAP SHOWING LOCATION OF MAPPED AREAS, URANIUM COMBINED METALS CO. INC.
PLUMAS COUNTY, CALIFORNIA

Figure 2

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2 3 EA

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

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1605 Evans Avenue
Reno, Nevada

October 5, 1955

Memorandum

To: Operating Committee, DMEA, Interior Building, Washington 25, D. C.

From: Executive Officer, DMEA Field Team, Region II

Subject: Docket No. DMEA-3849 (Uranium)
Uranium Combined Metals Company
Stokes, Porter, and Dellinger properties
Plumas County, California

Reference is made to your letter of June 29, 1955 requesting a field examination on above subject property.

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Roscoe Smith and I concur in the recommendation.

S. Ricker

Attach.

Reviewed by
DMEA OPERATING COMMITTEE
10-14-55
(Date)

BUREAU OF MINES
WASHINGTON, D. C.
OCT 10 10 08 AM '55

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OCT 10 1955

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION II

APPLICATION REPORT

DMEA-3849 (Uranium)
Uranium Combined Metals Company
Stokes, Porter, and Dellinger properties
Plumas County, California

By

B. H. Sheahan
Mining Engineer
U. S. Bureau of Mines

D. B. Tatlock
Geologist
U. S. Geological Survey

October 4, 1955

Reviewed by
DMEA OPERATING COMMITTEE
10-14-55

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The examination team recommends that the requested exploration loan be denied as there is no geologic evidence from which to infer that a significant discovery of uranium might be made.

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HISTORY AND PRODUCTION

There has been no past or current production from the prospect known to the applicants. Placer mining has been conducted in the vicinity along the Feather River and some gold has probably been produced years ago from small operations.

Mr. L. R. Stokes stated that radioactive mineralization was discovered near Hot Spring Creek in 1950. He has submitted at least 20 samples to the U. S. Bureau of Mines, Reno, Nev., but the chemical analyses were discouragingly low compared to the radiometrics.

PROPERTY AND OWNERSHIP

The applicants land consists of a portion of sections 13 and 24, T. 25 N., R. 8 E., MDB&M and sections 18 and 19, T. 25 N., R. 9 E., MDB&M, Plumas County, Calif. The parcels of land are owned by Mr. Lee R. Stokes; Mark Twain Porter, Cora P. Porter, Jean Porter; and A. C. Dellinger and Ruth Dellinger. Mineral rights to the property have been optioned by Uranium Combined Metals Company, which was a co-partnership when the application was made for DMEA assistance. Colonel R. Carnes stated that the company was incorporated in California in June 1955.

Capitalization was reported to be 5,000,000 shares at $0.20 par. He stated that the corporation planned to offer no stock for sale and intended to keep the corporation closed.

The applicant plans to conduct all of the exploration work by independent contract. He has no mining experience and hopes to employ an engineer or geologist to assist him with the general supervision of the work. Mr. Carnes stated that he was a veteran of World War I, and that his given name was Colonel. He is employed by the Stephenson-Leydecker and Co., 1404 Franklin Street, Oakland 12, California, a stock and bond investment concern.

DEVELOPMENT

Exploration pits on the property are indicated on the attached Geologic map, fig. 3. Most of the pits are less than 2 cubic yards in size.

The company conducted diamond drilling operations early in July 1955 but stopped two weeks later because of difficulties encountered by the contractor. One hole was drilled to a depth of 20 feet on Parcel No. 3, and a second hole was drilled 40 feet on Parcel No. 1. No core was recovered, and a reaming bit was lost in the 40 foot hole.

There are no mining facilities and the company owns no equipment.

GENERAL GEOLOGY

The claims are in an area of moderately high relief on the west flank of the northern Sierra Nevada. The claims are underlain by regionally metamorphosed sedimentary rocks consisting of dark gray clay slates and interbedded chert with occasional thin beds of tuffaceous rocks and quartzite. A few of the slate beds are carbonaceous and contain small blebs of pyrite. Some manganiferous material is associated with the chert beds. Bedding and schistosity are parallel and strike east; dips range from vertical to 75° north. These rocks belong to the Calaveras group of probable Carboniferous age.

A few small deposits of calcareous, limonitic, and manganiferous sinter have been deposited by hot springs associated with minor steeply dipping longitudinal and transverse faults and joints. Most of these springs are now inactive. The deposits of radioactive material are in the limonitic and manganiferous sinter.

ORE DEPOSITS

No uranium minerals were seen on the Uranium Combined Metals Company claims. Radioactive material is present, however, in manganiferous and limonitic sinter. The background count of 0.03 to 0.05 mr/hr registered on a Deluxe Scintillator Precision Model 111B was exceeded at several places in the prospect areas on Parcels No. 2 and 3

(figs. 2 and 3). However, according to George W. Walker [1/] of the U. S. Geological Survey who examined this property in 1952, "A selected sample of some of the most radioactive limonitic sinter assayed 0.66 percent equivalent uranium and 0.001 percent uranium; analyses made at the Geological Survey laboratory in Denver showed radium to be the source of most of the abnormal radioactivity." The highest assay of samples taken by the applicants was 1.64 percent U_3O_8 equivalent and 0.009 percent U_3O_8 chemically.

At the proposed diamond drill hole site on Parcel No. 1 (fig. 2) no abnormal radioactivity was recorded. A traverse northward for 1,000 feet along highway U.S. 40 Alternate where near vertically dipping metasedimentary rocks are continuously exposed in a roadcut, revealed no mineralized or abnormally radioactive zones.

In the prospect area on Parcel No. 2 (figs. 2 and 3B) on Hot Springs Creek, nine pits have been dug into loose slate and chert. A few small pods up to one foot across of weathered manganiferous and limonitic sinter showed radioactivity ranging from 0.09 to 2.2 mr/hr - 3 to 50 times background. Samples of these pods assayed from a trace up to 0.53 percent U_3O_8 equivalent. The highest assay chemically was 0.03 percent U_3O_8. A small spring is still active at the largest pit

1/ Walker, G. W., Lovering, T. G., and Stephens, H. G., Radioactive deposits in California: California State Div. Mines, in press.

where the highest radioactivity was registered. The spring water was not abnormally radioactive.

In the prospect area on Parcel No. 3 (figs. 2 and 3A), the highest radioactivity came from pods of limonitic and manganiferous soil in road cut and slope debris below the highway cut. A spring is present at the south edge of a calcareous tufa deposit. Weathered manganiferous and limonitic sinter 8 feet east of the spring registered 0.35 mr/hr. Samples of the most highly radioactive pods of sinter and soil assayed 0.03 to 0.32 percent U_3O_8 equivalent and trace to 0.03 percent U_3O_8 chemically.

On the Uranium Combined Metals Company claims there is no geologic evidence from which to infer that the source of radioactive material in the spring deposits is of a higher grade than the spring deposits. The radioactive material is out of equilibrium, and radium, not uranium, is the source of most of the radioactivity.

SAMPLING

Samples were taken from the most radioactive material detected. The average grade of the deposit is, therefor, lower grade than these select samples might indicate. The location of the samples are indicated on Geologic map, fig. 3.

Sample No.	Width, feet	%, eU_3O_8	%, cU_3O_8	Remarks
S-372	2.0	0.30	0.03	Manganiferous wad
S-373	2.0	Trace	-	Schist
S-374	0.5	0.53	0.03	Manganiferous wad

Sample No.	Width, feet	%, eU_3O_8	%, cU_3O_8	Remarks
S-375	3.0	Trace	-	Schist
S-376	2.0	0.03	-	Manganiferous wad
S-377	1.0	0.03	-	" "
S-378	1.0	0.12	0.03	" "
S-379	1.0	0.32	0.03	" "

ORE RESERVES

No measured, indicated, or inferred uranium reserves exist on the Uranium Combined Metals Company claims.

PROPOSED EXPLORATION

The applicants propose to spend $6,800.00 to diamond drill three holes, one in each of the parcels Nos. 1, 2, and 3 (fig. 2).

In Parcel No. 1, a hole is to be drilled 400 feet due north at minus 45 degrees so as to intersect any uranium-bearing zones in the sequence of metasedimentary rocks to the north. No specific target exists.

At the Hot Springs Creek site in Parcel No. 2 (figs. 2 and 3B), a hole is to be drilled 200-400 feet S35°E at minus 25 degrees so as to intersect at depth a possible downward continuation of the highly radioactive material on the surface southeast of the drill hole site. A second hole may also be drilled from this site 150 feet N25°E at minus 30 degrees. No specific target exists. The applicants propose to spend $1,000.00 to construct a road to this drill site from highway U.S. 40 Alternate.

At the diamond drill hole site on Parcel No. 3, a hole is to be drilled 200 to 400 feet due north at minus 45 degrees so as to intersect any uranium-bearing zones in the near vertically dipping metasedimentary rocks to the north. No specific target exists.

The applicants propose also to spend $4,000.00 for the surveying and geologic mapping of approximately 2,500 acres of non-contiguous land.

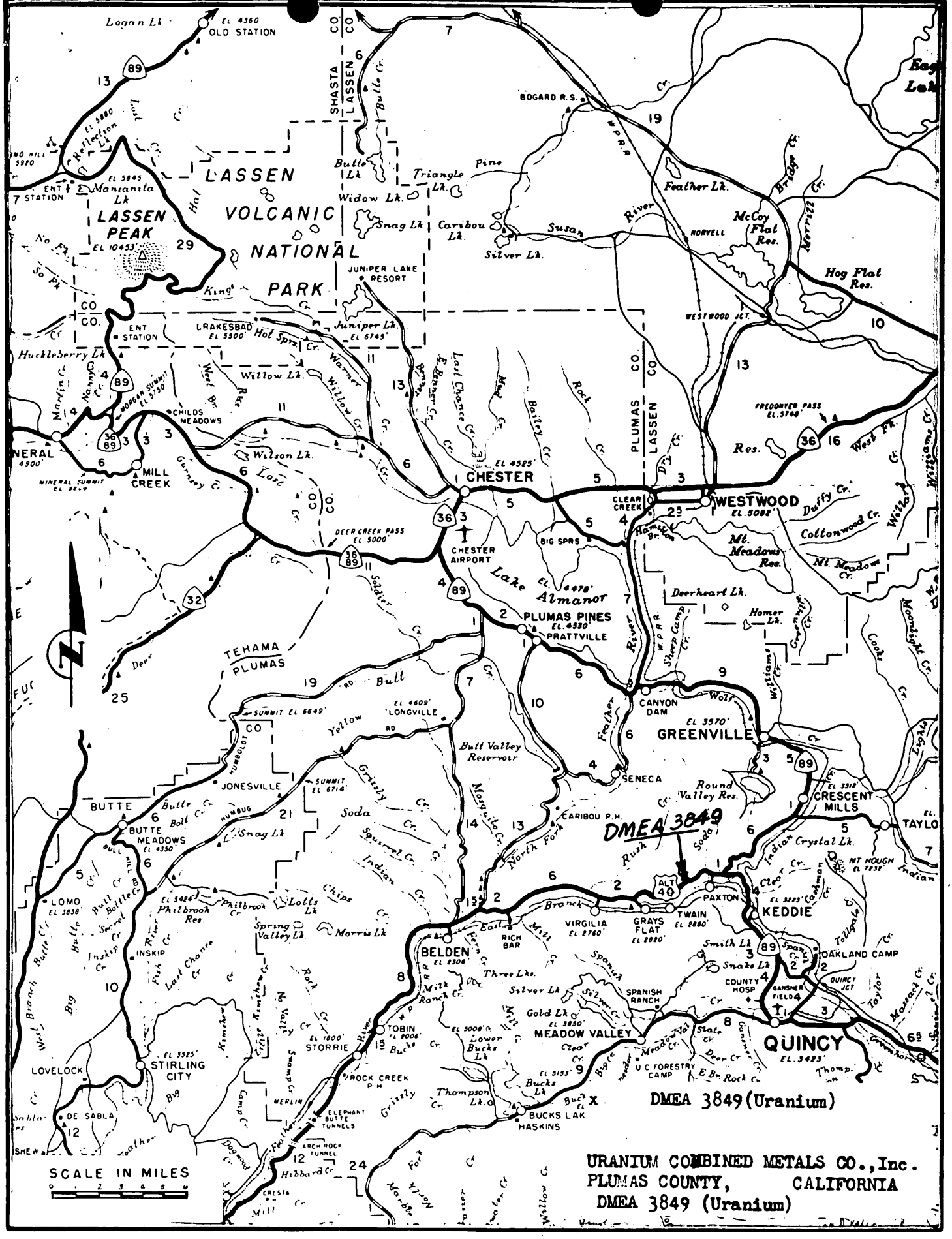

Fig. 1 LOCATION MAP CALIFORNIA

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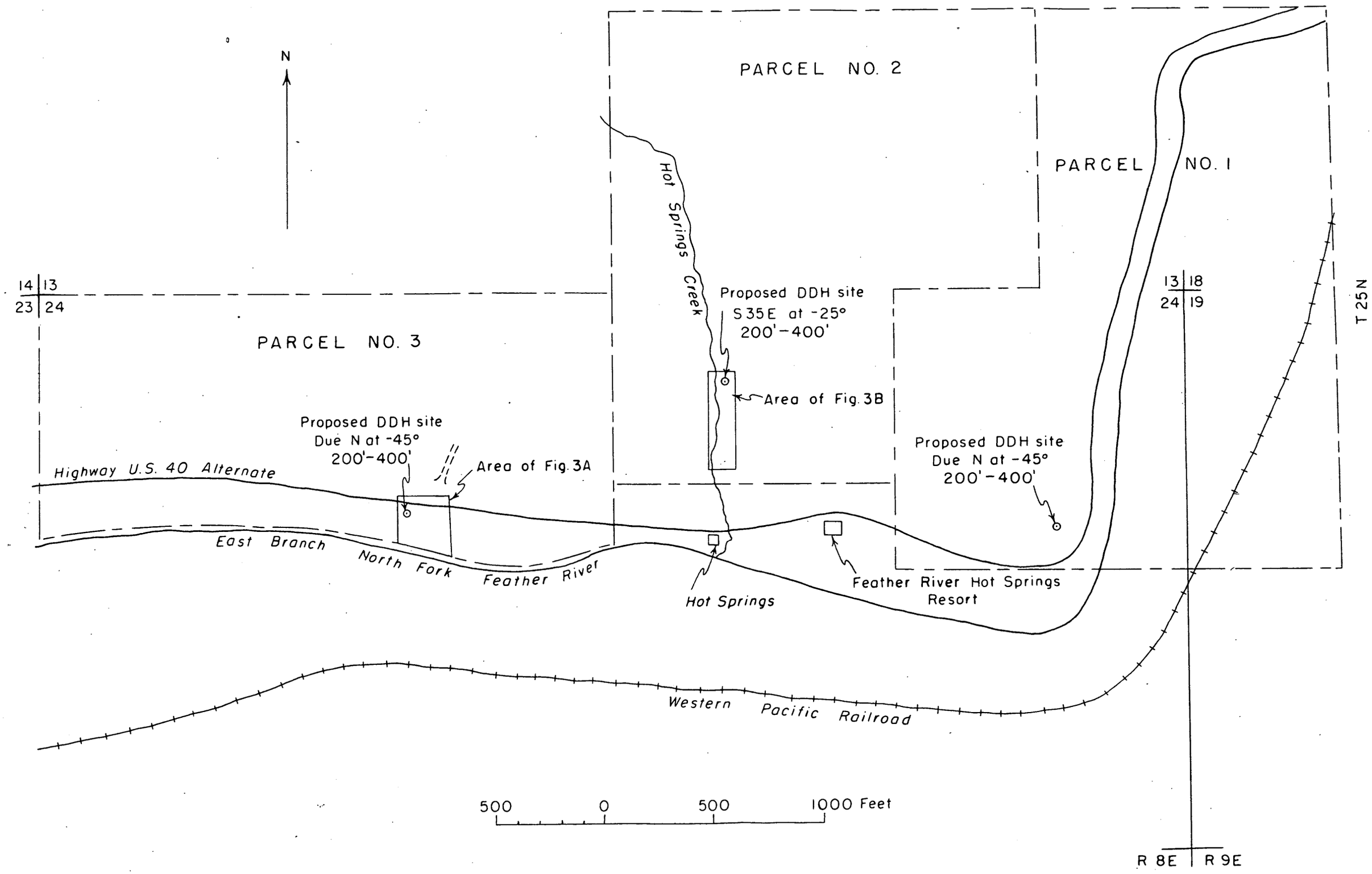
OCT 1 0 1955



INDEX MAP SHOWING LOCATION OF MAPPED AREAS, URANIUM COMBINED METALS CO. INC.
PLUMAS COUNTY, CALIFORNIA

Figure 2

RECEIVED
OCT 10 1955

700

Surname copy

Murphy
Hedges
Kulsgaard
Selfridge
Gleason

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

JUN 29 1955

Mr. Clarence H. Pease
Attorney at Law
Suite 510, 926 J Building
Sacramento 14, California

Re: Docket No. DMEA-3049 (Uranium)
Uranium Combined Metals Company
Stoker, Porter, and Bellinger
properties
Plumas County, California

Dear Mr. Pease:

The application for assistance in exploring the subject property in Plumas County, California, under the captioned docket number, has been reviewed by the Rare and Miscellaneous Metals Division of the Defense Minerals Exploration Administration. It has been referred for a field examination to the Executive Officer of Region II at the following address:

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare and Previous Metals
Experiment Station
1605 Evans Avenue
Reno, Nevada

The Regional Office will contact you in regard to this project if additional information is required.

Sincerely yours,

C. O. Mittendorf

Administrator

RMurphy/am/gla
6-28-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region II (2)

R.G.S.

Surname 700

Murphy
Ellis
Selfridge
Johnson

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Mr. Spangler Ricker
Executive Officer
DMEA Field Team, Region II
U. S. Bureau of Mines
Rare and Precious Metals
Experiment Station
1605 Evans Avenue
Reno, Nevada

JUN 29 1955

Re: Docket No. DMEA-3849(Uranium)
Uranium Combined Metals Company
Stokes, Porter, and Dellinger
properties
Plumas County, California

Dear Mr. Ricker:

The captioned application is referred to Region II Field Team for investigation, a field examination, and recommendation. A copy of the application was forwarded to your office June 7.

Enclosed are copies of memoranda from J. E. Crawford, dated June 13, and R. D. Trace, dated June 16, 1955. Also enclosed are two (2) copies of a letter from the Applicant transmitting the additional information requested in Mr. Ellis' letter of June 13, copies of which were forwarded to your office.

In the letter from Mr. Pease, you will note that he estimates an expenditure of $4,000 for "surveying and geologizing non-contiguous land." This item appears to be beyond the scope of our exploration program. However, the examining team can probably clarify this question to the Applicant's satisfaction.

In the event the Field Team recommends an exploration project on the subject property, the Applicant should be advised that we will require six copies of an Owner's Consent to Lien signed by the following individual and two groups of owners:

1) Lee R. Stokes

2) Mark Twain Porter, Cora P. Porter, and Jean Porter.

3) A. C. Dellinger and Ruth Dellinger.

Also, we will require at least one copy each of Mr. Stokes' Lease of the properties from the "Porter" and "Dellinger" families. It does not appear that we will require a royalty subordination agree-

R.C.S.

ment from Mr. Stokes on the two properties he has sub-leased to the Applicant.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (JHB)

Enclosures

APPROVED:

J. H. Hedges (JHB)
Member, Bureau of Mines

Thor H. Kiilsgaard (JHB)
Member, Geological Survey

FMMurphy:am
6-28-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J. C. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy

6/27/55 gla

CLARENCE H. PEASE
ATTORNEY AT LAW
SUITE 510, 926 J BUILDING
SACRAMENTO 14, CALIFORNIA

GILBERT 2-0403

June 23, 1955

United States
Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Attention: Mr. Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division

Re: Docket No. DMEA-2849 (Uranium)
Stokes, Porter and Dellinger properties
Plumas County, California

Gentlemen:

Thus is in response to your letter of June 13th addressed to my client, Colonel R. Carnes.

We enclose herewith three copies of a chart showing location and proposed work, drilling, road work and the location and value of samples taken.

We also enclose a sketch showing theposition of Quartz Claims as are superposed on our Placer Claim in Parcel No. 2 of the enclosed sketch.

At the present time, we wish to drill three core holes, approximately 400 feet deep at a cost of approximately $6.00 per foot. We are presently drilling the first core hole in the vicinity of sample area 4 and 5 and have it under contract for $5.00 a foot. However, we do not believe that the driller will be able to drill the other holes at this figure because of his heavy expense and difficulties being encountered. Insofar as work is concerned, we have done only the minimum necessary assessment work within the past few days for the new Quartz Claims. We desire to put the road in from the main highway into the Hot Creek Spring area where the samples were taken from in order to put the equipment into this area for core drilling.

At the present time, we wish to concentrate our core drilling on the three parcels shown in the sketch from which the samples were taken. There is approximately an additional 2500 acres lying just to the north which, as you say, is not contiguous. This land does, in various places, give pretty good account on the scintillator and we wish, among other things, to employ a geologist to geologize this particular area and then determine what further drilling should be done.

We enclose copy of summary of geologist's various samples and assays of certain of these samples that have been taken. You will note that

this summary ties into the plotting shown on the sketch of the three parcels.

Generally, the work that we propose to do at the present time is as follows:

1. 400 feet of core drilling at $5.00 a foot for $2,000.00

2. 800 feet of core drilling at $6.00 a foot for $4,800.00

3. Bulldozing for road, approximate cost $1,000.00

4. Expense in surveying and geologizing non-contiguous land, approximately 2500 acres, $4,000.00.

Insofar as the favorable geologic features are concerned, we believe these matters are best summed up in the geologist's report heretofore furnished together with his summary of the various assays taken.

Generally, there is considerable radio-active showing in small quantities of low values which can be either a natural concentration from a very weak source or possibly rubble from a stronger source at the base of our formation in which we wish to drill. Only core drilling will determine this.

If you require further information, please advise. We wish to point out, however, at this time that we are trying to avoid the expense for the time being of detailed engineering data and are trying only to outline generally the work that we feel should be done at this time to develop this prospect further.

Very truly yours,

Clarence H. Pease

Clarence H. Pease

CHP:ib
Encls.

COPY

WESSLEY W. PAULSEN

Consulting Geologist

926 Bryant Avenue - Telephone Fireside 2-5823

Chico, California

RECEIVED JUN 2 7 1955

June 17, 1955

Mr. Clarence H. Pease
Uranium Combined Metals Company
Suite 510, 926 J Building
Sacramento, California

Dear Mr. Pease:

The following listing enumerates sample type, location, and assay results from the Uranium Combined Metals Company property in Plumas County. Samples 1 to 11, samples 2 to 4 (May 10, 1955), and samples A-1 and A-2 were taken by me personally. They were carefully taken to be representative of the deposits and protected to prevent accidental or willful salting. Appended also is a list of sample results from samples taken by other persons.

Sample 1: In 4 foot cut, channel sample of manganiferous soil, 2" x 2" x 30", rejected for assay. Duplicate to Abbot Hanks as sample 4 (May 10, 1955) with assay 0.006 percent U_3O_8. Location 20' north-east of discovery post, Parcel 3, Section 24, R8E, T25N.

Sample 2: In 4 foot cut, channel sample of hard, altered clay slate beneath manganiferous soil. 2" x 2" x 18" assay not reported. 20' north-east of discovery post, Parcel 3, Section 24, R8E, T25N,MDM.

Sample 3: Open cut, channel sample of manganiferous soil rubble, 2" x 2" x 18", radio-assay USBM. 0.33 equivalent U_3O_8. Location approximately 150' 570E of discovery post, Parcel 3, Section 24, R8E, T25N, MDM.

Sample 5: Open cut in heavily weathered clay slate. 2" x 2" x 36" horizontal cut, rejected for assay because of low sample radio-activity. South end of large roat cut, Feather River Highway, Parcel 1, Section 19, T25N, R8E, MDM.

Sample 4: Grab sample, 6" wide area of high radio-activity, rejected because of low sample radio-activity. On site 0.5 MRH, background. 05-0.10 MRH., Location; unweathered, clayslate in road cut, 50' N of sample 4 locations. West side Feather River Highway, Section 19, R8E, T25N, MDM.

Sample 6: Open cut, east side, channel sample of weathered manganiferous clay slate, 2" x 2" x 36". Radio-assay USBM.

0.05 percent U_3O_8 equivalent. "Hole on Hill" 100 feet N of Feather River Highway, Feather River Hot Springs Resort, Parcel 2, Section 24, R8E, T25N, M.D.M.

Sample 6A: Duplicate of sample 6, but west side of open cut, 2" x 2" x 30" channel sample, USBM radio-assay 0.01 per cent U_3O_8 equivalent.

Sample 7: Open cut, grab sample, black manganiferous soil and rock, USBM radio-assay 1.64 per cent U_3O_8. Wet assay 0.009 U_3O_8 USBM. Location east side of Hot Spring Creek, 775' N along creek from south line of Parcel No. 2 at Hot Spring Creek. Section 24, R8E, T25N., MDM.

Sample 8: Open cut (beneath manganiferous soil of Sample 7), horizontal channel sample 2" x 2" x 18" of hard clay slate, slightly weathered. Radio-assay USBM, 0.01 per cent U_3O_8 equivalent. location same as sample 7.

Sample 9: Open cut and outcrop. Grab sample of hard rocks, USBM radio-assay, 0.01 per cent U_3O_8 equivalent. Location from 775' north to 805' north of south line of Parcel 2 along Hot Spring Creek. Section 24, R8E, T25N, MDM.

Sample 10: Not shipped, low off-site radio-activity.

Sample 11: Open cut, 2" x 2" x 26" channel sample of hydro-thermally altered clay slate, USBM radio-assay 0.025 percent U_3O_8 equivalent. Location 100' west of discovery post, Parcel 3, Section 24, R8E, T25N, MDM.

Sample 2: (May 10, 1955) Open cut, 7' x 2"x2" channel sample manganiferous and clayey soil, wet assay Abbot Hanks 0.007 per cent U_3O_8. Location 805 feet north of south line of Parcel 2 along Hot Spring Creek, Section 24, R8E, T25N, MDM.

Sampel 3: (May 10, 1955) Open cut, 4 foot channel in manganiferous soil beneath Sample 2 (May 10, 1955). Wet assay Abbot Hanks, 0.006 per cent U_3O_8. Location 800' north along Hot Spring Creek in Parcel 2, Section 24, R8E., T25N., MDM.

Sample 4: (May 10, 1955) Same location and cut as Sample 1. See sample 1 this list.

Sample A-1: Open-cut, grab sample same location as Sample 7, radio-assay USBM 0.15 per cent U_3O_8 equivalent, wet assay USBM 0.026 per cent U_3O_8.

Sample A-2: Open-cut, same location as Sample 7. USBM radio-assay 0.81 per cent U_3O_8 equivalent, wet assay USBM 0.005 per cent U_3O_8.

Sample 3: (Webster Rutledge, Abbot Hanks lab. no. 74471) Sample reported to have been taken of manganiferous soil at discovery site Parcel 1, Section 24, R8E, T25N, MDM. Similar location to Paulsen Sample 1. Wet assay U_3O_8 0.22 per cent U_3O_8.

Sample 1: (L.R. Stokes, November 10, 1954, Nevada Min. lab.) Sample reported to have been taken of yellow material in manganiferous soil at discovery site. Parcel 1, Section 24, R8E, T25N. Wet assay 0.06 per cent U_3O_8.

Sample 12: RW: (L.R. Stokes, November 13, 1954) Sample reported to have been taken at location similar to Paulsen Sample 1. Wet assay 0.11 per cent U_3O_8.

Sample 1: (Abbot Hanks Lab. 20653, August 28, 1950) Reported to have been taken at Hot Spring Creek, similar location to Paulsen A-1. Wet assay 0.45 per cent U_3O_8.

Very truly yours,

/s/ Wessley W. Paulsen

mp/wwp

6/20/55-gla

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
JUN 17 1955

June 16, 1955

Re: DMEA-3849
Carnes et al.
Plumas Co., Calif.
$25,000 - Uranium

Memorandum

To: E. W. Ellis, Defense Minerals Exploration Administration

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

The applicant's property is in an area of metasediments, including clay slate, contorted shales, and quartzitic rock. Both the bedding and foliation appear to be vertical and trend east. The operator has found radioactivity, concentrated particularly in the manganiferous soil and overburden over the deeply weathered beds of clay slate.

The operator proposes to diamond drill, clean out an old adit, do some assessment work, etc. The program is vague.

I have no information on the area. The results of sampling and radioactivity surveys, however, are sufficiently encouraging to warrant referring the application to the Field Team.

The exploration of this property is still in such an early stage that it is difficult to evaluate its potential. So far, "ore grade" radioactivity has been found in the overburden only. Also I note that the eU's appear to be somewhat higher than the U's.

Incidentally, a map would have been helpful. (map subsequently received)

Refer to Field Team.

RD Trace

R. D. Trace

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

RECEIVED
JUN 17 1955

June 16, 1955

Re: DMEA-3949
Barnes et al.
Plumas Co., Calif.
$25,000 - Uranium

Memorandum

To: R. W. Ellis, Defense Minerals Exploration Administration

From: R. D. Trace, U. S. Geological Survey

Subject: Review of application

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The operator proposes to diamond drill, clean out an old adit, do some assessment work, etc. The program is vague.

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Incidentally, a map would have been helpful.

Refer to Field Team.

R. D. Trace

RDTrace:hlm
G-6/16/55
Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior
J. O. Hosted, 3210 GSA

6/13/55 gla

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
WASHINGTON 25, D. C.

RECEIVED
JUN 13 1955

June 13, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee, Room 4445

From: John E. Crawford, Bureau of Mines Member
Uranium Commodity Committee

Subject: Application for assistance, DMEA Docket 3849, Uranium Combined Metals Co., Plumas County, California

I have reviewed the attached application for assistance, DMEA Docket 3849, Uranium Combined Metals Co., Plumas County, California; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the application be referred to the Field Team for examination and report, and that the Field Team be requested to discuss the application with Ernest E. Thurlow, Atomic Energy Commission, Salt Lake City, Utah. It is emphasized that discussions should be held with Mr. Thurlow prior to a field examination of the property, inasmuch as it is believed that Atomic Energy Commission geologists may have examined this property or other similar properties in the immediate vicinity.

John E. Crawford
John E. Crawford

Attachment

Surname 700

Murphy
Ellis
Mittenthal

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION
WASHINGTON 25, D. C.

Colonel R. Carnes
Uranium Combined Metals Company
2632 Fulton Avenue
Sacramento, California

JUN 13 1955

Re: Docket No. DMLA-3849 (Uranium)
Stokes, Porter, and Dellinger
properties
Plumas County, California

Dear Colonel Carnes:

The above-docketed application for Federal assistance in an exploration project has been referred to this Division for review and recommendations.

A study of the data submitted reveals that essential information on which the merits of your proposal could be judged are lacking, namely:

1. A map or sketch showing the location of the proposed work, i.e. drilling, road work, adits to be driven, etc.; the location and values of samples taken; and the location and extent of excavation and/or drilling previously completed. (See Article 5 of application form)

We note that the lands described in your lease from Mr. Stokes are located in Ranges 8 E to 11 E and Townships 25 N to 27 N., also, that the properties are not contiguous. Please clarify the location of the particular area you wish to explore and describe the favorable geologic features which indicate that uranium deposits might possibly be found by the proposed exploration work. (See Article 4 of application form)

2. A statement of the units of work proposed, i.e. feet of drilling, feet of underground workings to be driven, hours of bulldozing for road work, etc., with the estimated unit and total cost of such work. (See Article 6 of application form)

In the event the Government considers an exploration project on your property is warranted, then in order to protect its interest, we will require the following:

1. Copies of all legal documents pertaining to the chain of ownership of the land subject to the contract.

RGM.

2. If the land is held under lease, we will require an Owner's Consent to Lien for the amount of the Government's share. (75 percent of the cost of the project program)

We will hold the subject application in abeyance for a reasonable period in order that you may submit the above requested data. Will you kindly advise this office in regard to the length of time you will require to compile this additional information.

Sincerely yours,

SIGNED

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

FMMurphy:am
6-13-55
cc to: Admr. Reading File
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm.5224
J. O. Hosted, Rm.3210,GSA
Code 700
Mr. Murphy
DMEA Field Team, Region II(2)

June 7, 1955

Uranium Combined Metals Company
2632 Fulton Avenue
Sacramento, California

Subject: DMEA - 3849
Re: Exploration Assistance

Dear Colonel Carnes:

The receipt of your application dated May 24, 1955 for exploration assistance under the Defense Production Act of 1950, as amended, is hereby acknowledged.

Your application has been assigned Docket Number DMEA 3849 and referred to the Rare & Miscellaneous Division.

Kindly identify all future correspondence relating to your application by this docket number.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

60932

CLARENCE H. PEASE
ATTORNEY AT LAW
SUITE 510, 926 J BUILDING
SACRAMENTO 14, CALIFORNIA

GILBERT 2-0403

RECEIVED
JUN - 3 1955

June 2, 1955

United States Department of the Interior
Defense Minerals Exploration Administration
Washington 25, D. C.

Attention: Robert E. Adams, Chief
Operations Control and Statistics Divisinn

Gentlemen:

In accordance with your letter of May 26, 1955, I enclose herewith two additional copies of Form MF-103, Application for Aid in an Exploration Project, etc. for Uranium Combined Metals Company, together with three additional copies of the answers to the questions contained in Form MF-103.

Very truly yours,

Clarence H. Pease

Clarence H. Pease

ib
Encl.

CLARENCE H. PEASE
ATTORNEY AT LAW
SUITE 510, 926 J BUILDING
SACRAMENTO 14, CALIFORNIA

GILBERT 2-0403

May 20, 1955

Defense Minerals Exploration Administration
Washington 25, D. C.

Gentlemen:

I enclose herewith on behalf of my client, Application on your form MF-103 for development loan in the amount of $25,000.00.

Could you kindly advise if there is any other governmental agency that would assist in financing actual development and mining operations once discovery was made.

Very truly yours,

Clarence H. Pease

Clarence H. Pease

CHP:ib
Encl.

Mr. Clarence M. Pease
Suite 510
926 J Building
Sacramento 14, California

Dear Mr. Pease:

This will acknowledge your letter dated May 20, 1955, in which you forwarded an application for financial assistance on an exploration project for Colonel R. Carnes, General Partner.

Since only two copies of the Form MF-103 and only one set of answers to the questions in Form MF-103 were forwarded, it is requested that you immediately supply this office with two additional copies of Form MF-103 and three additional copies of the answers to the questions contained in Form MF-103.

Your application will be held in abeyance until such material is received.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

REAdams:mm - 5/26/55
Copy to: Adm. R. File
Mail & files
Chron.

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

Form Approved.
Budget Bureau No. 42-R1035.2.

RECEIVED
JUN - 6 1955

APPLICATION FOR AID IN AN EXPLORATION PROJECT, PURSUANT TO DMEA ORDER 1, UNDER THE DEFENSE PRODUCTION ACT OF 1950, AS AMENDED

Not to be filled in by applicant

Docket No. DMEA-3849
Metal or Mineral Uranium
Date Received 6-6-55
Estimated Cost $25,000.00
Participation (Government %)

INSTRUCTIONS

1. *Name of applicant.*—(*a*) State here your full legal name, in the form in which you will wish to contract, and your mailing address: Colonel R. Carnes, General Partner (see attached)
2632 Fulton Avenue
Sacramento, California

(*b*) If other than an individual, add to your name above whether a corporation, partnership, etc., and the name of the State in which incorporated or otherwise organized.

(*c*) If a corporation, add to above statement, titles, names and addresses of officers.

(*d*) If a partnership, add to the above statement the names and addresses of all partners.

2. *General.*—Read DMEA Order 1, "Government Aid in Defense Exploration Projects," before completing this application. Submit this application and all accompanying papers in quadruplicate (four copies), with your name and address on each sheet of the application and on all accompanying papers. Where sufficient space is not provided on the form for all required information, state it on an accompanying paper, with a reference in each case to the instruction to which it refers by number. Comply with all applicable instructions; or, if not applicable, so state. File the application with Defense Minerals Exploration Administration, Department of the Interior, Washington 25, D. C., or with the nearest field executive officer thereof.

3. *Applicant's property rights.*—(*a*) State the legal description of the land upon which you wish to explore, including all land which you possess or control that may be benefited by the exploration, and excluding any land or interest in land which is not to be included in the exploration project contract See attached

(*b*) State any mine name by which the property is known. See attached

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise See attached

(*d*) If you are not the owner, submit with this application a copy of the lease, contract, or other document under which you control the property.

(*e*) If you own the land, describe any liens or encumbrances on it

(*f*) If the land consists of unpatented claims, add to the description above, the book and page numbers for each recorded location notice. See attached

4. *Physical description.*—(*a*) Describe in detail any mining or exploration operations which have been or now are being conducted upon the land, including existing mine workings and production facilities. State your interest, if any, in such operations. Also describe accessibility of mine workings for examination purposes. See attached

(*b*) State past and current production, and ore reserves, if any, giving quantities and grades.

(*c*) Describe the geologic features of the property, including mineralization, type of deposit (vein, bedded, etc.), and your reasons for wishing to explore. Illustrate with maps or sketches. Send with your application (but not necessarily as a part of it) any geologic or engineering report, assay maps, or other technologic information you may have, indicating on each whether you require its return to you.

(*d*) State the facts with respect to the accessibility of the project: Access roads, distances to shipping, supply and residence points.

(*e*) State the availability of manpower, materials, supplies, equipment, water, and power.

5. *The exploration project.*—(a) State the mineral or minerals for which you [illegible] to explore primarily uranium

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if needed) of any present mine workings, and the location of the proposed exploration work as related to such features as contacts, veins, ore-bearing beds, etc.

(*c*) The work will start within 10 days and be completed within 6 months from the date of an exploration project contract.

(*d*) State the operating experience and background of the applicant with relation to the ability to carry out such exploration project, and also that of the person or persons who will supervise the operations. See attached sheet

6. *Estimate of costs.*—Furnish a detailed estimate of the costs of the proposed work (you will have to use a separate sheet), under the following headings. Add the totals under all headings to give the estimated total cost of the project:

(*a*) *Independent contracts.*—(Note.—If the applicant does not intend to let any of the work to contractors, write "none" after this item. To the extent that the work is to be contracted, do not repeat the cost of the contract-work in subsequent items.) State the cost of any proposed independent contracts for the performance of all or any part of the work, expressed in terms of units of work (such as per foot of drilling, per foot of drifting, per hour of bulldozer operations, per cubic yard of material moved, etc.).

(*b*) *Labor, supervision, consultants.*—Include an itemized schedule of numbers, classes and rates of wages, salaries or fees for necessary labor, supervision and engineering and geological consultants.

(*c*) *Operating materials and supplies.*—Furnish an itemized list, including items of equipment costing less than $50 each, and power, water and fuel.

(*d*) *Operating equipment.*—Furnish an itemized list of any operating equipment to be rented, purchased, or which is owned and will be furnished by the Operator, with the estimated rental, purchase price, or suggested use-allowance based on present value, as the case may be.

(*e*) *Rehabilitation and repairs.*—Furnish a detailed list showing the cost of any necessary initial rehabilitation or repairs of existing buildings, installations, fixtures, and movable operating equipment, now owned by the Operator and which will be devoted to the exploration project.

(*f*) *New buildings, improvements, installations.*—Furnish a detailed list showing the cost of any necessary buildings, fixed improvements, or installations to be purchased, installed or constructed for the benefit of the exploration project.

(*g*) *Miscellaneous.*—Furnish a detailed list showing the cost of repairs to and maintenance of operating equipment (not including initial rehabilitation or repairs of the Operator's equipment), analytical work, accounting, workmen's compensation and employers' liability insurance, and payroll taxes.

(*h*) *Contingencies.*—Give an estimate of any necessary allowances for contingencies not included in the costs stated above.

NOTE.—No items of general overhead, corporate management, interest, taxes (other than payroll and sales taxes), or any other indirect costs, or work performed or costs incurred before the date of the contract, should be included in the estimate of costs.

7. (*a*) Are you prepared to furnish your share of the cost of the proposed project in accordance with the regulations on Government participation (Sec. 7, DMEA No. 1)? Yes

(*b*) How do you propose to furnish your share of the costs?

[X] Money [ ] Use of equipment owned by you [ ] Other

Explain in detail on acompanying paper.

CERTIFICATION

The undersigned, whether as an individual, corporate officer, partner, or otherwise, both in his own behalf and acting for the applicant, certifies that the information set forth in this form and accompanying papers is correct and complete, to the best of his knowledge and belief.

Dated May 24, 1955

URANIUM COMBINED METALS COMPANY
(Applicant)

By Colonel R. Carnes

Title 18, U. S. Code (Crimes), Section 1001, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

U. S. GOVERNMENT PRINTING OFFICE 16—66551-1

RECEIVED
JUN - 6 1955

1. Name of applicant -- (a)

Limited Partners:

H. Perry White
923 Homewood Drive
Woodland, California

John Frederick Johnston
128 Court Street
Woodland, California

Clarence H. Pease
1724 Daphne Avenue
Sacramento, California

John W. Davis
Williams Highway
Colusa, California

Mario Marengo
825 Reddinger Street
Williams, California

Jack Combs
Rt. 3, Box 515
Highway 99W
Woodland, California

4. Physical description -- (a)

At the present time, the partnership has done some assessment work staked corners for claims; paid the legal expense of obtaining various documents and the negotiation and has had geological investigation with preliminary report, a copy of which is attached. The area lies astride U. S. Highway 40 in Plumas County and is easily reached from the road on foot. There has been no past or current production. The area is adjacent to the railroad and shipping of ores can be accomplished by a truck haul of two or three miles. There would be sufficient man power, materials, supplies, equipment, water and power for any conceivable requirement of the operation of these properties as a mine.

5. The exploration project --

(d) Applicant has no extensive personal experience in mining or mineral operations but would necessarily follow the suggestions and employ a supervising geologist or mining engineer.

6. Estimate of Costs --

The estimated cost is approximately $3.00 a foot for core drilling, together with some road work, tunnel excavation, and sampling for a total estimated cost of $25,000.00. Much of this cost would be handled by way of independent contracts for drilling operations.

6. Labor, supervision, consultants --

(b) Labor, supervision and consultants to be paid current standard rates of scales of pay in the area.

(d) Equipment to be rented at current and standard prices.

(e) There is no equipment which will require necessary initial rehabilitation or repairs.

(f) No buildings are proposed to be installed, purchased or constructed for the benefit of the exploration project.

Geologic Report

on

Uranium Combined Metals Company

Plumas County Uranium Prospects

by

Wessley W. Paulsen

Consulting Geologist

April 27, 1955

Rt. 2, Box 948

Chico, California

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Radiation Surveys

Conclusions:

1. High radiation readings are confined to manganiferous soils or weathered materials with manganiferous coatings in fractures.

2. High radiation counts and radio-assays by the U. S. Bureau of Mines at Reno, Nevada indicate radioactive material of ore quality at the Discovery site on Parcel 3 and in Parcel 2, 800 feet north of the south line of Parcel 2 on Hot Creek Spring.

3. A minimum of 100 tons of manganiferous soil and rock rubble with probably uranium assays of 1% U_3O_8 might be mined at the Hot Spring Creek site, Parcel 2.

4. There are mineable manganiferous soils at the Discovery site below the Feather River Highway on Parcel 3. However, the State Highway Department will not permit mining for fear of undercutting road fill.

5. Very high radioactive counts 5 5o 16 milliroentgens, were observed below Feather River Highway on Parcel 3, and at 800 feet north of the south line of Parcel 2 along Hot Spring Creek. Moderately high radiation counts up to 5 milliroentgens were observed at the south end of the road cut on Parcel 1, and at the "Holt on the Hill" near the south line of Parcel 2.

Radioactive counts twice to three times background were observed in the 100-foot tunnel above the Discovery site on Parcel 3; for several hundred feet south of the 800-foot point on Hot Spring Creek, and in the weathered material on the south slope and bench north of the Highway on Parcel 1. In general traversing of the area, the Gieger counter picked many spots of two to three times background over soil mantle.

6. Radio-assays by the U. S. Bureau of Mines at Reno, Nevada, indicated U_3O_8 equivalent of from 0.01 to 0.025 percent on silicified shale, 0.05 percent on weathered carbonaceous shale, and from 0.33 to 1.64 percent on manganiferous soil and rock rubble.

7. This is a very worthwhile prospect and merits exploration and trial shipments of manganiferous uranium-bearing soils.

8. Diamond drilling and bulldozer cuts at Hot Spring Creek may expose a lode type deposit in a weathered shear zone.

9. Manganiferous soils on the benches, as in the Tunnel on Parcel 1, warrant further investigation as they may contain uraniferous material mineable for uranium content.

Sampling Results:

Sample 1. Black manganiferous soil. Rejected as not worth assaying by Reno Laboratory, USBM.

Sample 2. Not reported.

Sample 3. Discovery site, Parcel 3, .033 percent U_3O_8 equivalent.

Sample 4. Radioactive spot south end of road cut. Rejected, low.

Sample 5. Radio-active spot in Road Cut, in unweathered rock, rejected by USBM, lack of radio-activity in sampel. On-site reading was 0.5 milliroentgens, background .05-0.10

Sample 6. 100 feet north of Highway opposite Feather River Hot Springs Resort. "Hole on Hill" 0.05 percent U_3O_8 equivalent. Not acceptable as ore.

Sample 6A. Duplicate sample of "Hole on Hill", but west side of outcrop. 0.01 percent U_3O_8 equivalent. Not acceptable as ore.

Sample 7. Black manganiferous soil and rock. Hot Spring Creek 775 feet N of South Line Parcel 2; 1.64 percent U_3O_8 equivalent.

Sample 8. Sample of 18 inches of shale "hard rock", slightly weathered, at 775 feet, north along Hot Spring Creek from south Line Parcel 2. 0.01 percent U_3O_8 equivalent. Not acceptable as ore.

Sample 9. Grab sample of hard rocks from 775 feet to 805 feet North along

Hot Spring Creek from South line of Parcel 2. 0.01 percent U_3O_8 equivalent.

Not acceptable as ore.

Sample 10. Not shipped, low Radio-activity

Sample 11. Hard rock beneath manganiferous soil 100 feet west of discovery post Parcel 3. 0.025 percent U_3O_8 equivalent. Not acceptable as ore.

RECOMMENDATIONS

Exploration:

Diamond drilling and excavation should be carried out at Hot Spring Creek site. (1000 feet northerly along Hot Spring Creek from Feather River Highway.) Easterly slope should be thinly cleaned of soil. Diamond drill should be placed to drill a hole bearing N 25°E at a 30° angle from the low side of the deposit. This hole should be at least 150 feet long to intersect the altered area beneath highly radioactive manganiferous soils.

Core sampling should be from surface down; all drilling sludge caught and held for radiation check and Radio-assay.

A drill hole at the south end of Parcel 1 on the slope nearest the highway, 100 feet in length, 45° slope, north bearing.

Old tunnel above the discovery point should be cleaned out and checked for radioactivity and sampled for ~~radioactivity~~ Radio-assay.

Detailed geologic investigation and radioactive survey should be made of entire area, and will probably disclose more areas worthy of drill or excavation exploration.

Assessment Work:

The road from the west end of Parcel 1 should be extended to the Hot Spring Creek site on Parcel 2. This road will cross the two mining claims and provide assessment work requirements. This road should be radioactive surveyed immediately after completion.

Discovery work on the claims should constitute short tunnels bearing N 45° from the discovery points.

Location of Properties:

The Uranium Combined Metals Company owns, leases, or has options in effect on other property in Plumas County. However, the following described properties were examined for this report.

Parcel One:

Northeast quarter of northeast quarter of Section 24, Township 25 north, Range 8 east, M. D. B. M; East one-half of southeast quarter of southeast quarter of Section 13, Township 25 north, Range 8 east, M. D. B. M.; West one-half of southwest quarter of southwest quarter of Section 18, Township 25 north, Range 9 East, M. D. B. M.; West one-half of northwest quarter of northwest quarter of Section 19, Township 25 north, Range 9 east.

Parcel Two:

North one-half of the Northwest quarter of the Northeast quarter of Section 24. The Southwest quarter of the Southeast quarter and the West half of the Southeast quarter of the Southeast quarter of Section 13, Township 25 North, Range 8 East, M. D. B. M.

Parcel Three:

All that part of the N 1/2 of the NW 1/4 of Section 24, Tp. 25 N. R. 8 E., M. D. M., which lies northerly of the center line of the East Branch of the North Fork of the Feather River, (sometimes called Indian Creek.)

Excepting the portion thereof conveyed by Cora P. Porter and H. G. Porter to the State of California, by Deed dated November 25th, 1929, and recorded in Volume 62 of Deeds, at page 267, Plumas County, California records.

Parcels 1 and 3 lie astride the Feather River Highway with most remote corners only a few hundred feet from the roadway. Parcel 2 can be reached by constructing 300 to 800 feet of road from the Feather River Highway across Parcels 1 or 3. The main line of the Western Pacific Railroad lies south and westerly a few hundred feet across the river on the north bank of the Feather River in Parcel 1, traversing in a general south to north direction across the entire Parcel.

Topography is such that an inexpensive low-level bridge and siding could be constructed. There is an existing bridge and spur 1 1/4 miles westerly from the west line of Parcel 3, all via the Feather River Highway except 1/2 mile which includes the bridge and siding road which are related to the Lumber Mill operating at this place.

Via Highway 24, the property is 95 miles from Reno, Nevada, and 61 miles from Oroville, California. Both Highway and Railroad are open all year, except rarely during heavy winter storms, and then only for a few days.

Topography of the area is mountainous with relief over 4000 feet. All parcels, however, are in an area of moderate mountain slopes, with deeply weathered soils on benches and slopes. Rock outcrops are numberous, but a small percentage of the total area. Maximum relief in the three parcels is 1600 feet. Roads can be constructed almost anywhere in the area with a bulldozer and very little blasting or bridging.

Geology: The area is in the very northern portion of the Sierra-Nevada metamorphic and igneous rock complex. The prospect sites, (Parcels 1 to 3,) lie almost in the middle of an eight-mile-wide belt of carboniferous age meta-sediments. In all probability, they are in the Shoo Fly formation, a portion of the Carboniferous meta-sediments described by Diller of the U. S. Geological Survey. These rocks are the highly silicified and contorted remains of marine sediments. They range from fresh almost unweathered at the level of the Feather River to deeply weathered on slopes higher on the properties. The unweathered rocks are massive with joint partings 6 inches to 2 feet apart, with

most prominent jointing dipping about 20 degrees westerly.

Foliation in the unweathered rocks is near-vertical and east-west in trend. It is more prominent as rocks become more weathered. Bedding appears to parallel foliation. Beds alternate as clay slate, highly contorted carbonaceous shales, and massive, highly silicified quartzitic rock. Lenses of pyritic and iron ixide stained quartz are common and appear to be replacements along certain sheared and crumpled beds.

Geology of the Prospects:

Parcel 1 was examined in the road cut along the Feather River Highway and shallow pits on the southslope facing the Feather River Highway. At the south end of the road cut, heavily weathered clay slates are slumped downhill. Joints of these slates are heavily stained with manganiferous and ferous minerals. The remainder of the road cut is a series of clay slates, quartzites, and closely fractured and contorted carbonaceous shales. Some zones contain lenses of quartz up to three feet wide. On weathered south slopes facing the highway, clay-slates are deeply weathered, and the rubble consists of clay slate, and bull quartz in a heavy clay matrix.

Parcel two was examined by traverse along "Hot Spring Creek", the major creek along the west edge of the property, and in cuts on the slope facing the Feather River Highway. Deeply weathered clay soils mantle rock to a point 500 feet north of the Highway, and 500 feet north of the south line of Parcel 2 exposed only coarse boulders in red clay soil. Shallow pits from this point to 775 feet north of the south line expose red soil or heavily weathered, slightly manganiferous, clay slates. At this point, hard gray clay slates and massive quartzite are thinly mantled with 1 to 2 feet of black manganiferous soil and calcareous tufa of a series of mineral springs. The quartzites are bedded near-vertical, with hard ribs 10 to 20 feet wide and less durable altered zones between. Joints are 1 to 2 inches apart, with major jointing 1 to 2 feet. Between 785 and 805 feet north of the south line, a deep, altered rock zone is covered with manganiferous soil and rock rubble to depths over five feet. This

manganiverous material extends up-hill both easterly and westerly several 10's of feet. Exposures along the hill front facing the Feather River Hot Springs Resort consisted of a few bond outcrops of hard gray quartzite high on the hill, with more closely jointed deeply weathered clay slates and si;icified meta-sediments on the hill-front. The largest cut, ("Hole on the Hill",) a four-foot hole containing a spring 100 feet up-hill and 150 feet northerly from the Feather River Highways exposed weathered, manganiferous coated clay slates with east-west foliation and 70-degree north dip, which appears to be in part downhill slump.

Parcel 3. Examination was confined largely to the discovery area lying between the Feather River Highway and the River. At River level, fresh unaltered rock is well exposed with foliation not pronounced and jointing well developed, with a 20-degree westerly dip. Foliation is obscure, out east-westerly and near vertical from a few feet to fifteen feet above river level, the joints widen and are filled with culcareous cementation. Further up the bank, mineral springs become common, the rock becomes closely jointed parallel to foliation and is covered by a three to five-foot zone of manganiferous soil and pods of calcareous tufa. This condition extends 100 feet easterly from the discovery point and 200 feet westerly.

Adjacent to the mineral springs, cuts show the manganiferous soil grading down into highly altered clay slate.

In the road cut on the north side of the road and above the zone of manganiferous soils and springs, the rock is deeply weathered with soil cover, out with no evidence or mineralization. A tunnel about 30 feet above the road level appears to be over 100 feet in length and follows a manganiferous soil zone at least 50 feet. This zone is 2 to 3 feet thick and well defined, with red clay boulder soil above and weathered clay slates below. It appears to cover several acres on the bench above ~~xxxxxxx~~ the road.

Shallow bulldozer cuts on the slope above this tunnel exposed weathered clay slates and occasional manganiferous nodules.

Radiation Surveys:

A detailed radiation survey was carried out along the Road Cut in Parcel 1. The weathered outcrop at the South end gave readings up to 4 milliroentgens with background of .06 milliroentgens. A channel sample taken on a six-foot width did not show appreciably over background count. This sample was discarded and the sample submitted from a 12-inch width. This sample showed a radiation over twice background. (This sample 4 not assayed because of low radioactivity.)

In the remaining 800 feet of traverse, only two small spots of high radioactivity were discovered. One appeared to be only three inches wide in the quartzites, (sample 5 not assayed for lack of radioactivity,) and appeared to be the result of joint coating by a secondary radioactive mineral. The other radioactive point was a dollar-size nob of calcareous tufa at a seeping joint.

Radiation surveys on the hill front facing the Feather River Hot Springs Resort showed only one conclusively radioactive area at the "Hole on the Hill", (100 feet up and 150 feet north of the north edge of the Feather River Highway opposite the Service Station.) Here the east edge of the hole was radioactive to 8 milliroentgens. Samples 6 and 6A were taken from this locality. Sample 6A was not assayed; Sample 6 radio-assayed. 05 percent U_3O_8 equivalent.

Radiation surveys of 805 feet along east bank of Hot Spring Creek from the South Line of Parcel 2 showed only slightly above normal to double background from 305 feet northerly to 775 feet. At 775 feet, a spring flows from a 2-foot cut. Radioactivity here on the black manganiferous soil was up to 8 milliroentgens per hour. It was impossible to determine rock radioactivity because of high, mass radioactivity in the area. Sample 9, a grab sample of the harder quartzite and clay slate, gave an off-area count of .5 to 1.0 milliroentgens. The softer, altered clay slates, (Sample 8,) gave off-area readings of up to 1.8 milliroentgens. Black manganiferous soils gave off-area reading up to 4 milliroentgens. (Sample 7, 1.64 percent U_3O_8 equivalent.)

Radiation was checked at several cuts at the Discovery site in Parcel 3. The black manganiferous soils gave counts up to 8 milliroentgens, the calcareous tufa counts up to .15 milliroentgens, with background of .05.

The underlying weathered clay slate and quartzite gave intensities negative to three times background.

The bulldozer pits directly uphill from the Discovery site were systematically checked for radioactivity. Neither the deeply weathered soils, the hard-rock outcrops, nor the manganiferous nodules showed radioactivity perceptibly above background.

The tunnel 30 feet above highway level along a continuous manganiferous soil zone gave readings up to three times background in the first 25 feet of tunnel.

All radiation surveys were conducted with a precision Radiation Instrument, Gieger Counter, Model 107B, AEC No. SGM 49 B.

ASSAY REPORTS

RECEIVED
JUN - 6 1955

ABBOT A. HANKS, INC.

ENGINEERS. ASSAYERS. CHEMISTS. METALLURGISTS
CONSULTING - TESTING - INSPECTING
ESTABLISHED 1866
624 SACRAMENTO STREET
SAN FRANCISCO 11. CALIFORNIA
TELEPHONE GARFIELD 1-1697

August 23, 1950

L. R. Stokes
General Delivery
Paradise, California

Dear Sir:

At your request we have made an analysis and spectrographic test on a sample which you sent us and have to advise you as follows:

Lab. No. 20653 - Your Mark #1

Silicon Oxide	- 39.81%
Manganese	- 22.38
Iron	- 3.69
Uranium Oxide	- 0.45
Barium	- 5.52
Thorium	- None Found

Respectfully submitted,

ABBOT A. HANKS, INC.

BY P. T. Bee

PTB/bob

2001 E — Sample Location

Discovery

Creek

J. BENJ. PARKER

RECEIVED
JUN - 6 1955

NEVADA MINERAL LABORATORIES

336 MORRILL PHONE RENO 21001

RENO, NEVADA

ASSAY CERTIFICATE

M. L.R.Stokes 11-10-54

WE HAVE ASSAYED YOUR ..... SAMPLES AND FIND ..... CONTAINS: (PER TON OF 2000 LBS.)

NO.	MARK	GOLD Ozs. per Ton	VALUE GOLD	SILVER Ozs. per Ton	LEAD Per Cent Wet	COPPER Per Cent	MERCURY Lbs. Per Ton	ZINC Per Cent	WO3 Per Cent	LIME CaO	Per Cent
1	Yellow material at Discovery site										

Remarks:

Charges: Paid

J. Benj. Parker

FORM A-8

RECEIVED
JUN - 6 1955

REPORT OF ASSAY

ABBOT A. HANKS, INC.

ASSAYERS, CHEMISTS, ENGINEERS
624 SACRAMENTO STREET
SAN FRANCISCO.

October 28, 1954

DEPOSITED BY Webster Rutledge
2943 Broadway
Oakland, California

SAMPLE OF O R E

Labty. No.	Mark	GOLD, per ton of 2,000 lbs. Troy Ounces	GOLD, per ton of 2,000 lbs. Value @ $35.00 oz.	SILVER, per ton of 2,000 lbs. Troy Ounces	SILVER, per ton of 2,000 lbs. Value @ $	Percentages
						URANIUM OXIDE
74471	#1					0.09 %
72	#2					0.22
73	#3					0.06
74	#4					0.005
74476	Composite of 4 samples					MANGANESE - 3.78 %

Sample Location
Discovery Site
Porter Prop.

ABBOT A. HANKS, INC.

bob

RECEIVED

JUN - 6 1955

A. H. HOLLAND, PRES.
EDMUND E. PHILLIPS, VICE-PRES.—GEN. MGR.

OUR MOTTO:—WHAT THERE IS IN IT, NO MORE, NO LESS.

M. E. HOLLAND, TREASURER
M. E. PHILLIPS, SECRETARY

THE COLORADO ASSAYING COMPANY, INC.

(INCORPORATED)

ASSAYERS AND CHEMISTS

2013 WELTON STREET
DENVER 1, COLORADO Dec. 2[illegible], 19[illegible]4.

REPORT ON DETERMINATIONS MADE FOR— Mr. L. R. Stokes,
Paradise, Calif.

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT	Value per Ton Dollars	Value per Ton Cents
#13 R. W.	Uranium Oxide			0.11%		
	Radium			1.7 milligrams per to.		
Discovery site Porter						
gram = 0.03527 g						
1 g = 28.35 grams.						

GOLD AT _____ PER OUNCE
LEAD AT _____ PER UNIT

SILVER AT _____ PER OUNCE
COPPER AT _____ PER UNIT

THE COLORADO ASSAYING COMPANY

By Edmund E. Phillips

UNITED STATES

DEPARTMENT OF THE INTERIOR

Bureau of Mines

1605 Evans Avenue

Reno, Nevada

April 20, 1955

Ref: 15385

Mr. Wessley W. Paulsen
Route 2, Box 948
Chico, California

My dear Mr. Paulsen:

Your samples received April 13th have been identified as follows:

No. 6 - 100' N Hot Springs - Siliceous weathered carbonaceous shale rubble containing 0.05 percent U_3O_8 equivalent.

No. 6A - 79' above highway - Same as No. 6 contains 0.01 percent U_3O_8 equivalent.

No. 8 - Weathered silicified sericite shale containing 0.01 percent U_3O_8 equivalent.

No. 9 - Same as No. 8, Contains 0.01 percent U_3O_8 equivalent.

No. 11 - Same as No. 6. Contains 0.025 percent U_3O_8 equivalent.

Black Dirt - Earthy manganiferrous rock rubble containing 1.64 percent U_3O_8 equivalent.

Nothing else of any possible strategic importance could be detected mineralogically. A copy of this report is being referred to the U. S. Atomic Energy Commission field office for their evaluation. If this material is of possible economic value or if a field examination is warranted, they will contact you.

Sincerely yours,

/s/ T. R. Graham

T.R. Graham
Division of Mineral Technology, Reg. II

Copy to: E. E. Thurlow, Salt Lake City, Utah.

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AGREEMENT OF SALE OF LEASES, MINING AND PLACER CLAIMS, MINERAL RIGHTS AND REALTY

THIS AGREEMENT made and entered into this 29th day of March, 1955, between L. R. STOKES, also known as LEE R. STOKES, hereinafter called Seller, and URANIUM COMBINED METALS COMPANY, a copartnership hereinafter called Buyer.

RECITALS:

1. Seller is the owner of mineral rights to approximately eighty (80) acres of land, more or less, situate in Plumas County, California, more particularly described as follows:

> Northeast quarter of northeast quarter of Section 24, Township 25 north, Range 8 east, M. D. B. M.; East one-half of southeast quarter of southeast quarter of Section 13, Township 25 North, Range 8 east, M.D.B.M.; West one-half of southwest quarter of southwest quarter of Section 18, township 25 north, Rang 9 east, M.D.B.M.; West one-half of northwest quarter of northwest quarter of Section 19, Township 25 north, Range 9 east, M.D.B.M.,

together with surface rights and fee simple of some of said realty comprising 15 acres, more or less, more particularly described as follows:

> Northwest quarter of northeast quarter of northeast quarter of Section 24, Township 25 north, Range 8 east; North one-half of southwest quarter of northeast quarter of Northeast quarter of Section 24, Township 25 north, Range 8 east.

That said mineral rights are more particularly described or expressed as follows: As a reservation unto the undersigned, his heirs, successors and assigns of all uranium ores, gas, oil and other valuable minerals of every kind and character, lying 100 feet or more under the surface of the lands hereby conveyed, together with the right to mine and operate said lands, 100 feet or more beneath the surface thereof, for such mineral deposits, mineral oil, natural gases and uranium ores in any and all miner-like methods deemed necessary by the undersigned, his heirs, successors or assigns, for the purpose of extraction or removal of said

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mineral deposits, mineral oils, natural gases and uranium ores therefrom.

That all of the aforesaid property and property rights as above-described are hereinafter referred to as Stokes property.

2. Seller owns that certain Placer claim situated in the County of Plumas, State of California, more particularly described as follows:

> North one-half of the Northwest quarter of the Northeast quarter of Section 24. The Southwest quarter of the Southeast quarter and the West half of the Southeast quarter of the Southeast quarter of Section 13, Township 25 North, Rang 8 East, M. D. B. & M.
>
> Reference is hereby made to Starlight placer claim fully described in the original notice of location, which is recorded in Vol. 21 at Page 30, Placer Claims, Plumas County Records at Quincy, California.

Seller owns an additional quartz mining claim situated within the boundaries of said real property described in this recital known as the White Quartz Claim which is fully described, and to which reference is made, in the original notice of location which is and was recorded June 19, 1935, in Volume 20 of Quartz Claims at Page 334 of the official records of said Plumas County.

Seller owns an additional two quartz mining claims situated within the boundaries of said real property described in this recital and is in the process of perfecting title thereto; that said claims are named as and are fully described, and to which reference is made, in the original notices of location which were and now are recorded March 24, 1955, in the official records of said Plumas County as follows:

(a) Uranium Fever, Volume 30, of Quartz Claims at page 341

(b) Uranium Fever No. 2, Volume 30, of Quartz Claims at page 342

That all of the foregoing claims are hereinafter referred to as Mining Claims.

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3. Seller is lessee of approximately sixty (60) acres of land situated in Plumas County, California, pursuant to that certain lease terminating as extended on July 1, 1959, by and between Mark Twain Porter, Cora P. Porter and Jean Porter as lessors and L. R. Stokes as lessee, dated September 29, 1953, reference to which is made for further particulars; that said property is more particularly described as follows:

> All that part of the N 1/2 of the NW 1/4 of Sec. 24, Tp. 25 N. R. 8 E., M.D.M., which lies northerly of the center line of the East Branch of the North Fork of Feather River (sometimes called Indian Creek);
>
> Excepting the portion thereof conveyed by Cora P. Porter and H. G. Porter to the State of California, by deed dated November 25th, 1929, and recorded in Volume 62 of Deeds, at page 267, Plumas County, California, Records.

Said lease was recorded on the 1st day of October, 1953, in Volume 68 of Official Records of said Plumas County at Page 344. That thereafter and on the 20th day of October, 1954, said lease was extended in term to the 1st day of July, 1959, said extension being recorded in Volume 79 at Page 294 of Official Records of Plumas County. That all of the above properties are hereinafter referred to as Porter property.

4. Seller is lessee and purchaser optionee of oil and mineral rights of approximately twenty-five hundred (2500) acres of land situated in Plumas County, California, pursuant to that bond and lease terminating on September 20, 1964, by and between L. R. Stokes as lessee and optionee and A. C. Dellinger and Ruth Dellinger as lessors and optionor, dated September 21, 1954, reference to which is made for further particulars; that said property is more particularly described as follows:

> Parcel One: Genesee Placer Claim, comprising the NW 1/4 of the NE 1/4; S 1/2 of the NE 1/4 of the NE 1/4, and the NE 1/4 of the SE 1/4 of the NE 1/4, allin Sec. 27, Tp. 25 N., R. 11 E., M.D.B. & M.; the SW 1/4 of the NW 1/4 of the NW 1/4, and the NW 1/4 of the SW 1/4 of the NW 1/4 of Sec. 26, Tp. 25 N., R. 11 E., M.D.B. & M.
>
> Parcel Two: The N 1/2 of NW 1/4, in Section 6, T. 26 N., R. 8 E., and the S 1/2 of SW 1/4 in Section 31, T. 27 N., R 8 E., M.D.M., containing 160 acres.

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Parcel Three: The NE 1/4 of the SE 1/4; the E 1/2 of the NE 1/4 of Sec. 25, T. 27 N., R. 10 E., and Lot 3, Sec. 30, T. 27 N., R. 11 E., M.D.M.,

Parcel Four: The Southeast one-quarter of Section 1; the Northeast one-quarter, the Northeast one-quarter of the Northwest one-quarter, the South one-half of the Northwest one-quarter, and the Northeast one-fourth of the Southeast one-quarter of Section 11; all of Section 12; the North one-half of the Northeast one-quarter, and the Northwest one-quarter of the Northwest one-quarter of Section 13, all in Township 25 North, Rang 8 East, M.D.B. & M.,

Lots 2, 3, & 4, in Section 4; Lots 2, 3, 4, 5, 6, the East one-half of the Southwest on-quarter, the West one-half of the Southeast one-quarter of Section 6; Lots 1, 2, 3, 4, the East one-half of the Southwest one-quarter, and the North one-half of the Southeast one-quarter of Section 7: Lot 1 in Section 18, all in Township 25 North, Rang 9 East, M. D. B. & M.,

Lot 4, the Southeast one-quarter of the Southwest one-quarter and the Southwest one-quarter of the Southeast one-quarter in Section 30; Lots 1, 2, 3, 4, the West one-half of the Northeast one-quarter, the East one-half of the Northwest one-quarter, and the East one-half of the Southwest one-quarter of Section 31; the Southwest one-quarter of the Southwest one-quarter of Section 33, all in Township 26 North, Rang 9 East, M.D.B. & M.

Parcel Five: The E 1/2 of the SW 1/4; the Southeast quarter of the NW 1/4; Lot 2 of Northwest quarter of Section 30, T. 27 N., R. 11 E., M.D.M.

The above described property shall hereinafter be referred to as the Dellinger properties.

5. Upon the terms and conditions as set forth hereinbelow, the Seller is desirous of selling said property to Buyer.

W I T N E S S E T H :

That Seller, in consideration of the payments to be made by the Buyer and the conditions and covenants to be kept and performed by him, as hereinafter set forth, agrees to sell and the Buyer agrees to buy said property described hereinabove in the recitals hereinabove for the sum of Twenty-six Thousand Dollars ($26,000.00) in lawful money of the United States of America, and the Buyer, in consideration of the premises, promises and agrees to pay to Seller the aforesaid sum of money, for all of said real property as follows, to wit: Four Thousand Dollars ($4,000.00) upon the execution and delivery hereof, the receipt whereof is hereby acknowledged, and

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the balance of Twenty-two Thousand Dollars ($22,000.00), without interest, as follows: Five Thousand Dollars ($5,000.00) on each of the first days of January and July 1956, and Twelve Thousand Dollars ($12,000.00) on the first day of January 1957. All payments to be made to the Buyer shall be paid with lawful money of the United States of America.

IN ADDITION IT IS AGREED AS FOLLOWS, TO WIT:

First: Possession shall be delivered to the Buyer upon the execution and delivery of this agreement.

Second: Buyer agrees to pay all taxes or assessments on said property and equipment before the same becomes delinquent; and agrees to furnish first party with evidence of payment of all taxes and assessments at least thirty (30) days before said taxes or assessments would become delinquent.

Third: Seller on receiving payment of all amounts of money mentioned herein within the time herein prescribed shall execute a grant deed to said Stokes property; a quitclaim deed to said Mining Claims and assignments of said Porter and Dellinger leases in favor of said Buyer and shall deliver said deeds and assignments to said Buyer, together with said leases. Buyer shall furnish own title insurance as may be obtainable by Buyer.

Fourth: Buyer has the option without notice on any due date of any of said payments set forth hereinabove to either (a) pay the accrued and due purchase payment as set forth above, or (b) elect without notice to forfeit all properties back to the seller herein and neit er pay nor be obligated to pay said installment payment of payments there or thereafter to become due pursuant to this contract of sale and obligations hereto of either party shall determine except obligations theretofore accrued under said Dellinger and Porter leases. That a violation of any condition, covenant, provision or agreement herein contained on the part of the Buyer to be kept or performed, shall constitute a violation of

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this entire agreement; that in the event of such violation, the Seller, at his option, may thereupon give notice to the Buyer of such violation and in the event that the violation or defect is not cured within t irty (30) days, that the Seller, may at his option, declare this contract terminated and ended. In the event the said contract is terminated or ended for a violation of any term or failure to perform any term, covenant, condition or agreement herein contained, that Buyer will peaceable surrender the said premises together with all improvements thereon, to the Seller and the Seller may repossess the said premises with or without force. That in the event Seller does not notify the Buyer of any violation of any term, covenant, condition or provision herein contained, and/or declare a forfeiture for such violation, such failure shall not constitute a modification or waiver of such term or such violation.

Fifth: Should Seller sue the Buyer to enforce this agreement or any of its terms, the buyer shall pay a reasonable attorney's fee and all expenses in connection therewith.

Sixth: The Buyer shall dispose of any debris and tailings in conformity with law and without injury to any other individual or property. That the Buyer will be personally liable for any damage resulting from disposition of debris or tailings.

Seventh: The waiver by the Seller of any covenant, condition or agreement herein contained shall not vitiate the same or any other covenant, condition or agreement contained herein and the terms, conditions, covenants and agreements set forth herein shall apply to and bind the heirs, successors, and assigns of each of the parties hereto. Time is the essence of this agreement.

Eighth: All words used in this agreement, including the words Buyer and Seller, shall be construed to include the plural as well as the singular number and words used herein in the present tense shall include the future as well as the present and words

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used in the masculine gender shall include the feminine and neuter.

Ninth: Buyer does hereby assume the lessees' obligations under and provided by and required by said Porter and Dellinger leases, or said lessors.

Tenth: Buyer has the right and privilege to forthwith engage in necessary development and exploration for mineral and hydrocarbon resources upon in and under the surface of said properties as are conveyed and described herein as seem warranted solely in the opinion of buyer.

Eleventh: That all of the terms, covenants and conditions herein are as expressed herein, and that there are no other promises, inducements or representations made or relied upon by any part to this contract other than as provided herein.

Twelfth: Buyer covenants, promises and agrees, at his own expense, to keep up all the necessary assessment work and other governmental requirement in order to maintain said Mining Claims vested in the parties to this contract on or before June 1, of the year required and cause forthwith proof of labor to be recorded for the benefit of seller.

Thirteenth: That all operations and conduct upon said properties by Buyer, its agents, employees or other privies in interest or its assigns, heirs or representatives shall be in accordance with the covenants and conditions of said leases and all government law, rules and regulations.

Fourteenth: Said contract may be modified or altered only by further agreement in writing duly executed by all the parties hereto.

Fifteenth: Seller hereby covenants, promises and agrees not to sell, mortgage, encumber or do any other act or thing the effect of which is to diminish and further impair the title to said property so long as this contract remains in force.

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Sixteenth: This contract may be recorded.

Seventeenth: That Buyer shall keep all persons employed in or about the said mining property, fully insured against liability under the provisions of the Workmen's Compensation Insurance Acts. That Buyer shall not allow any liens to accrue by or through their act, for labor done, materials furnished, damages, or any other form of indebtedness during the full term of this agreement. That the Seller may post notices of non-responsibility or non-liability for labor or materials upon the said property and that Buyer will see that said notice or notices are maintained and posted in a conspicuous place or places.

Eighteenth: The time of such notice of notices shall be computed from day of delivery to the post office, post paid, to such addressee at any post office in the State of California.

It is further understood and agreed that whenever this agreement provides for the giving of notice or notices, such notice or notices to either Buyer or Seller shall be given in writing by registered mail return receipt requested addressed to Seller as L. R. Stokes, 8423 Skyway, Paradise, California, or to Buyer as Mr. Colonel R. Carnes, Uranium Combined Metals Company, c/o Clarence H. Pease, Esq., Suite 510, 926 J Building, Sacramento 14, California. Said addresses shall remain in effect as the official address for receipt of notices by Buyer and Seller unless and until changed or modified by either by notice as prescribed herein.

Nineteenth : That the Buyer will, upon the execution of this agreement, execute a good and sufficient quitclaim deed to the property described herein to the Seller and will deposit said quitclaim deed in escrow with such bank or trust company or other escrow holder as shall be agreed upon by the parties to this agreement for the deposit of returns from the property covered by this agreement, with an originally executed copy of this agreement and instructions directing that said deed be delivered to Seller

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in the event Buyer defaults or otherwise terminates this agreement or it is otherwise terminated for non-performance. In the event this said agreement and all terms thereof are complied with by Buyer, the said deed shall be delivered to Buyer by the said escrow holder, upon the final payment to Seller of the entire purchase price.

Twentieth : That the Buyer shall have the right to assign this contract, without the written consent of the Seller first had and obtained; and in the event of such assignment, Buyer shall give notice thereof to Seller of any such assignment, enumerating therein the name and address of the assignee for notice pursuant to paragraph Eighteenth above, and no assignment shall be binding or effective as against Seller until receipt of such notice of assignment is given in the manner as in this agreement provided for.

Twenty-first: That upon the termination of this lease for a violation of the terms or a failure to perform any covenant, term, provision, condition or agreement therein contained, the first party shall be entitled to the possession and occupancy of the said premises and each and every part thereof.

Twenty-second: Seller shall and does have the right at any reasonable time to go upon said premises or any part thereof inclusive of underground workings for the purpose of inspecting any operations being carried on thereon.

IN WITNESS WHEREOF, said parties have executed this agreement as of the day and year first above written.

(L.R. Stokes)

Also known as

(Lee R. Stokes)

URANIUM COMBINED METALS COMPANY,
a Copartnership,

By
(Colonel R. Carnes, a General Partner)

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STATE OF CALIFORNIA)
(ss.
COUNTY OF)

On this _____day of March, 1955, before me,_____ _____, a Notary Public in and for said County, personally appeared L.R. STOKES, also known as LEE R. STOKES, known to me to be ther person whose name is subscribed to the foregoing instrument and acknowledged that he executed the same.

WITNESS my hand and official seal.

_____
Notary Public in and for said County and State

(Notarial Seal)

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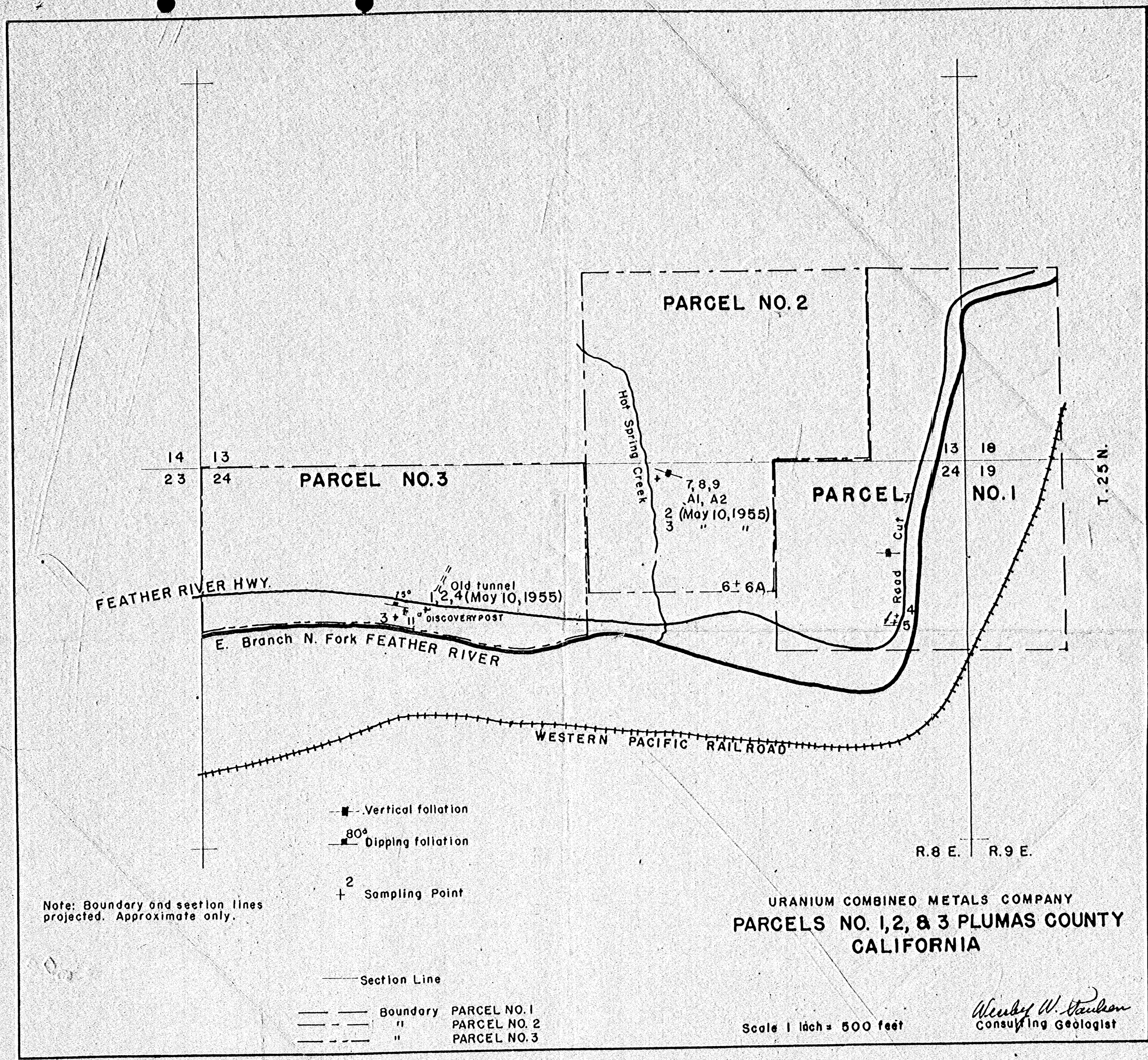


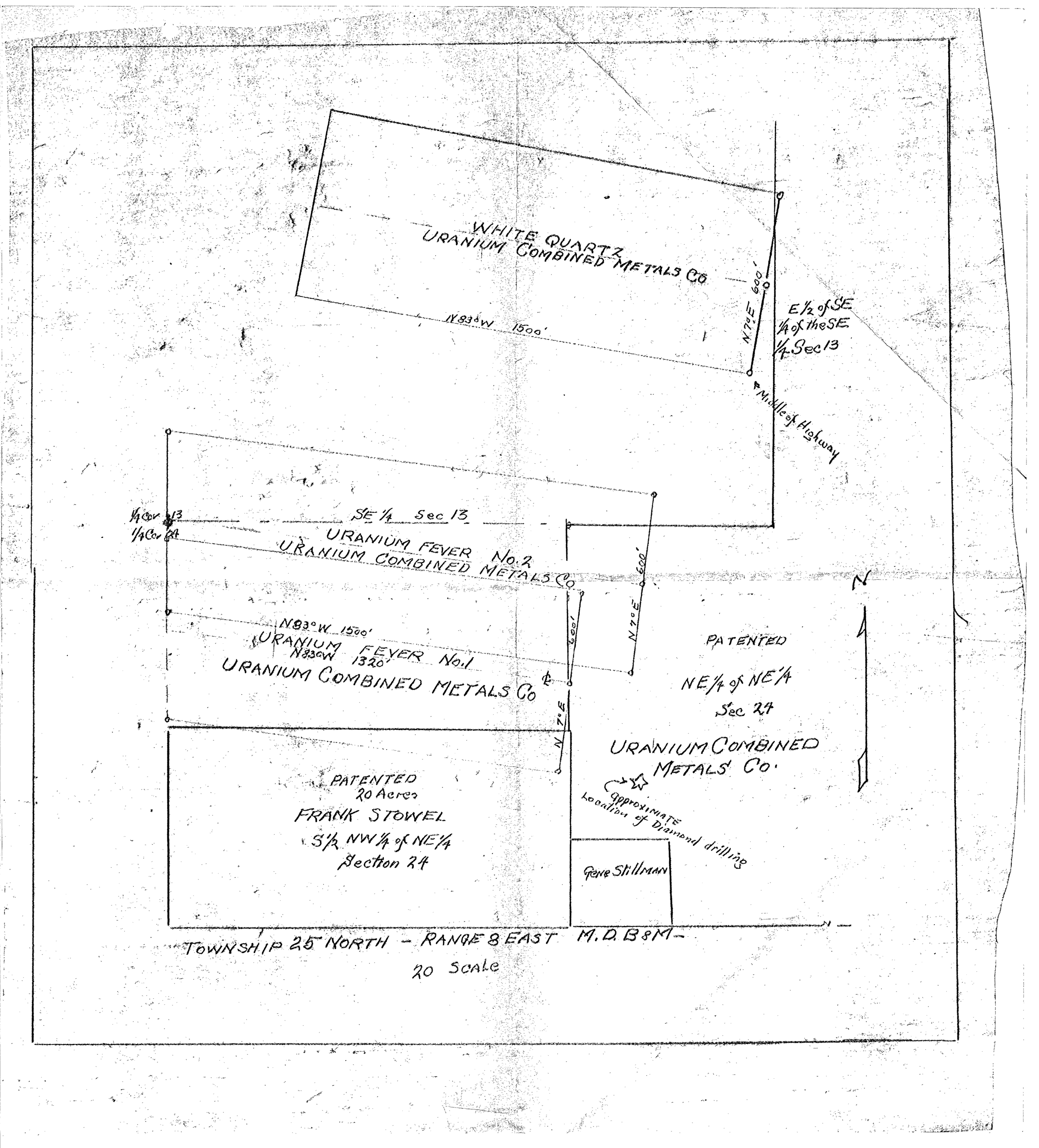
Note: Boundary and section lines projected. Approximate only.

URANIUM COMBINED METALS COMPANY

PARCELS NO. 1, 2, & 3 PLUMAS COUNTY CALIFORNIA

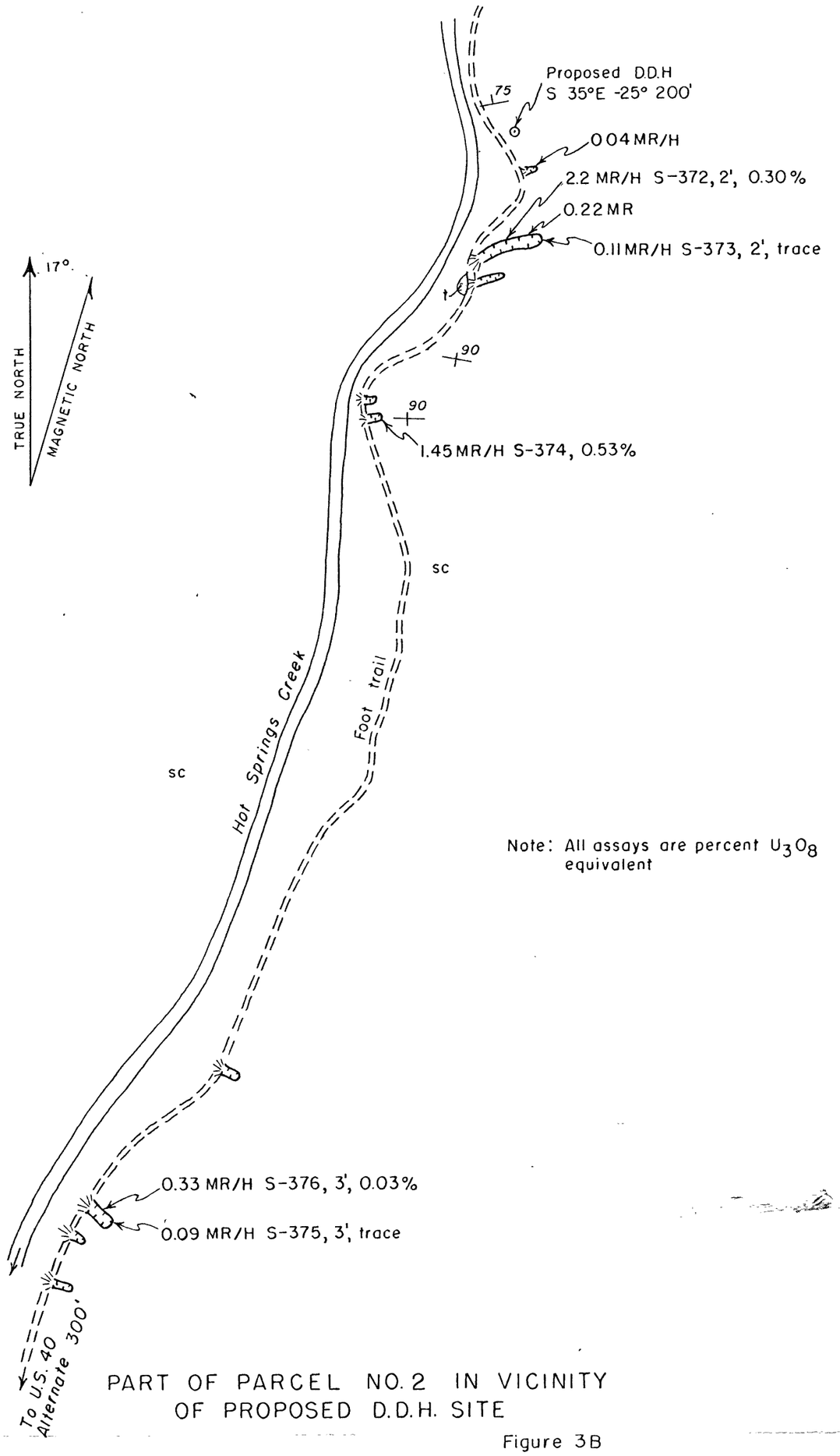
Scale 1 inch = 500 feet

Wendy W. Dawson
Consulting Geologist


WHITE QUARTZ
URANIUM COMBINED METALS CO
N83°W 1500'
N70°E 600'
E½ of SE ¼ of the SE ¼ Sec 13
Middle of Highway
¼ Cor 13
¼ Cor 24
SE ¼ Sec 13
URANIUM FEVER No. 2
URANIUM COMBINED METALS CO
N83°W 1500'
URANIUM FEVER No. 1
N83°W 1320'
URANIUM COMBINED METALS CO
N70°E 600'
N70°E 600'
PATENTED
NE ¼ of NE ¼
Sec 24
URANIUM COMBINED METALS CO.
Approximate location of Diamond drilling
PATENTED
20 Acres
FRANK STOWEL
S½ NW ¼ of NE ¼
Section 24
Gene Stillman
N
TOWNSHIP 25 NORTH - RANGE 8 EAST M.D.B&M
20 Scale

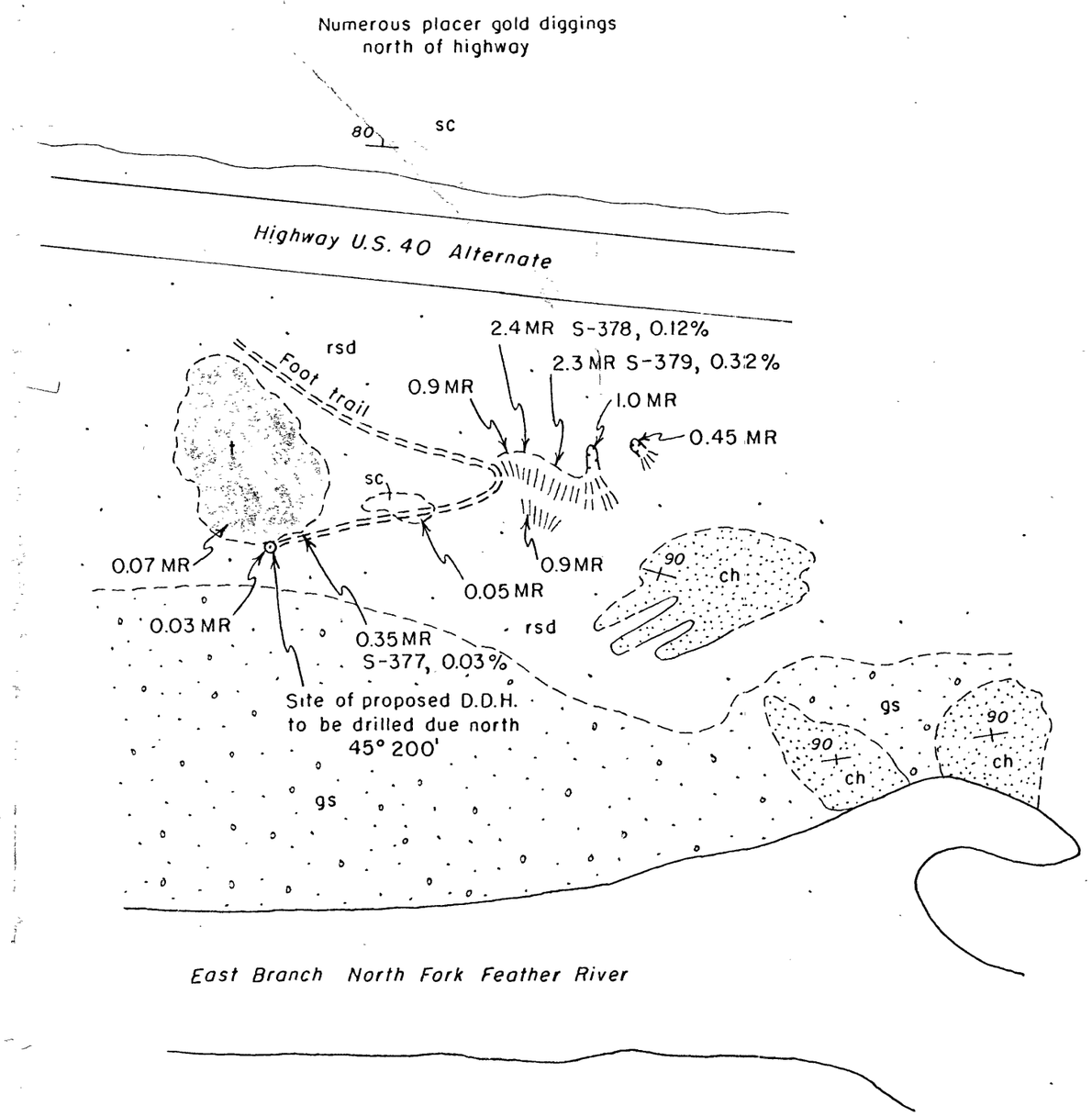
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DMEA 3849
(URANIUM)



PART OF PARCEL NO. 2 IN VICINITY OF PROPOSED D.D.H. SITE

Figure 3B



PART OF PARCEL NO. 3 IN VICINITY OF PROPOSED D.D.H. SITE

Figure 3A

EXPLANATION

rsd — Road cut and slope debris

gs — Stream gravels and sand

sc — Interbedded slate and chert

ch — Chert

t — Tufa

Contact
Dashed where approximately located

70 — Strike and dip of bedding and schistosity

90 — Strike of vertical bedding and and vertical schistosity

Open cut

Open sight alidade and tape map by D.B. Tatlock
August, 1955

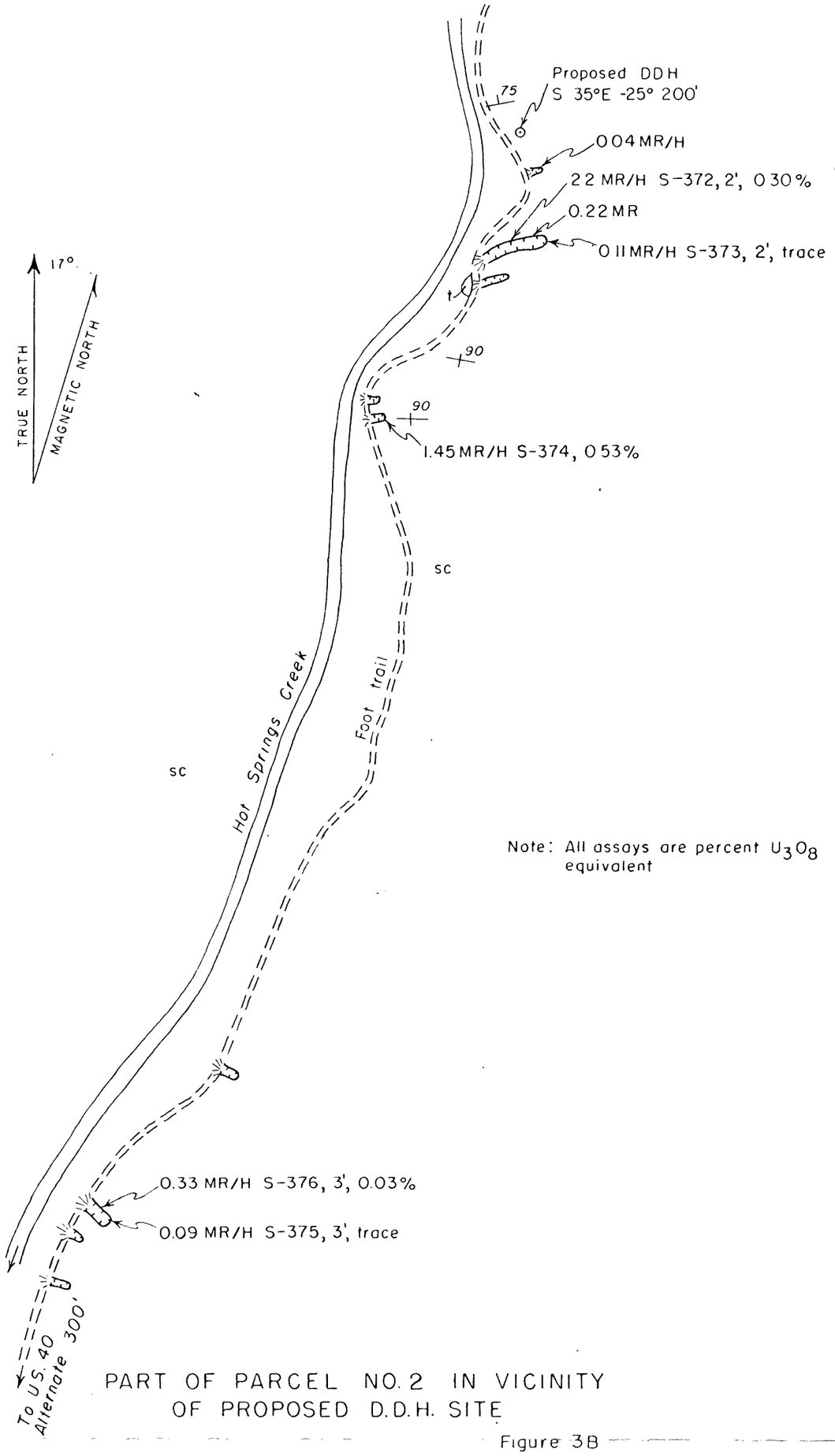
GEOLOGIC MAPS OF URANIUM PROSPECTS, URANIUM COMBINED METALS CO. INC.
PLUMAS COUNTY, CALIFORNIA

40 0 40 80 Feet

Figure 3

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

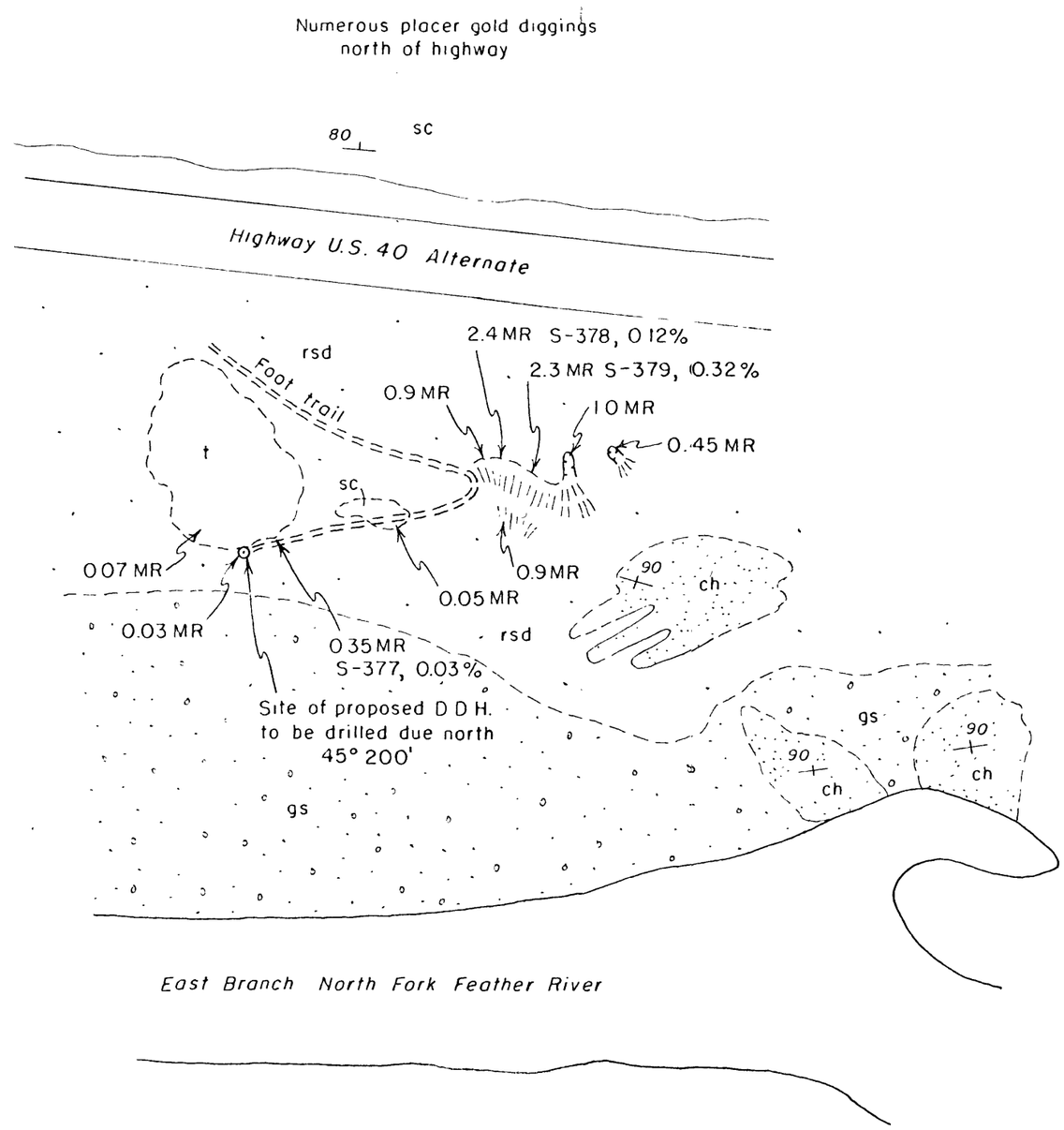
DMEA 3849
(URANIUM)



Note: All assays are percent U_3O_8 equivalent

PART OF PARCEL NO. 2 IN VICINITY OF PROPOSED D.D.H. SITE

Figure 3B



PART OF PARCEL NO. 3 IN VICINITY OF PROPOSED D.D.H. SITE

Figure 3A

EXPLANATION

- rsd — Road cut and slope debris
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- Contact — *Dashed where approximately located*
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- Open cut

Open sight alidade and tape map by D.B. Tatlock
August, 1955

GEOLOGIC MAPS OF URANIUM PROSPECTS, URANIUM COMBINED METALS CO. INC.
PLUMAS COUNTY, CALIFORNIA

40 0 40 80 Feet

Figure 3