DMEA Form 1

DEFENSE MINERALS EXPLORATION ADMINISTRATION
Control Slip

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DMEA Docket No. 4773

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DMEA Form 9
Rev. 6/57

UNITED STATES
DEPARTMENT OF THE INTERIOR
Defense Minerals Exploration Administration

OFFICIAL DOCKET FILE Idm-E NO._____ DMEA NO. 4773

Application
- [ ] Denied
- [ ] Withdrawn

Contract
- [ ] Terminated - Not Certified
- [ ] Terminated - Certified
- [ ] Cancelled
- [ ] Royalty Agreement

The records contained in this file are marked (x) and arranged in this order:

Folder No. 1:

Left Side

- [ ] Royalty Audits
- [ ] Certification of Discovery
- [ ] Closing Letter
- [ ] Cost Audits
- [ ] Termination Notice or Agreement
- [ ] Recision Notice
- [ ] Assignment of Contract
- [ ] Contract Amendments
- [ ] Contract with all exhibits and annexes
- [ ] Owner's Consent to Lien and Subordination Agreement
- [x] Application and attachments

Right Side

- [ ] Project summary (final)
- [ ] Work Completed analysis (final)

All other material filed in chronological order including the following reports if checked:

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Final Field Team Report (Tab)
- [ ] Operator's Final Report (Tab)
- [ ] Interim Field Team Reports
- [ ] Operator's monthly reports and all attachments
- [x] On-site Exam Report (Tab)
- [ ] Settlement Sheets
- [ ] Drill Logs

Additional Folders:

Left Side

Folders No._____: Reports
- [ ] Analysis of Semi-Annual Inspection Reports
- [ ] Project Summary (Interim) by DMEA Engineers

Right Side

- [ ] Field Team Semi-Annual Report for Certified Project
- [ ] Field Team Interim Reports
- [ ] Operator's Monthly Reports with transmittal, narrative and maps.

Folders No._____: Maps (Use pocket folder or envelope)

Folders No._____: Settlement Sheets

Folders No. 2 : Drill Logs

Folders No._____: Royalty material

17963

Management
Contracting
Leasing

Elbert E. Lewis, E. M.; E. Met.
General Manager

E. E. LEWIS ~~and ASSOCIATES~~
GENERAL MINING
P. O. Box 1481
GRAND JUNCTION, COLORADO

June 21, 1957

4773

The Defense Minerals Exploration Administration
Department of Interior
Washington 25, D. C.

Gentlemen:

Herewith are 4 copies of Application for Aid for Sneed, Medart, and Andrews of Grand Prairie, Texas. Three copies are complete with all documents. One copy does not have complete set of drill hole logs. We have been informed this set of logs will not be required.

Any communications relative to this application may be addressed to Mr. J. W. Sneed, P. O. Box 501, Grand Prairie, Texas; or the the writer, P. O. Box 1481, Grand Junction, Colorado.

Very truly yours,

Elbert E. Lewis

Elbert E. Lewis

EEL:ekb

Enc:
4 copies Application for Aid

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

RECEIVED JUL 1 1957 D.M.E.A.

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. 4773
Metal or Mineral Uranium
Date Received 7-1-57
Estimated Cost $29,214.25
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: Sneed, Medart and Andrews
P. O. Box 501
Grand Prairie, Texas (See attached papers)

(*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. See attached papers

(*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. See attached papers.

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 papers.

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

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

(*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 See attached papers.

(*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 papers.

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 papers.

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

(*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. See attached papers.

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

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

16—66551-1

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

(*b*) Describe fully the proposed work, including a map or sketch of the property showing a plan (and cross sections if need 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 120 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 papers.

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.). See attached papers.

(*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. See attached papers.

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

(*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. See attached papers

(*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. See attached papers.

(*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. See attach.

(*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. See attached papers.

(*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 [X] 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 June 17, 1957

Sneed, Medart and Andrews
(Applicant)

By J. F. Sneed
O. C. Medart
Alan L. Andrews

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

SNEED, MEDART & ANDREWS
P. O. BOX 501
GRAND PRAIRIE, TEXAS

APPLICATION FOR AID IN AN EXPLORATION PROJECT

1. (a) Sneed, Medart and Andrews
P. O. Box 501
Grand Prairie, Texas

1. (b) A Partnership in Dallas County, State of Texas.
1. (c) Not applicable.
1. (d) Mr. J. W. Sneed, Box 501, Grand Prairie, Texas;
Mrs. M. C. Andrews, Jr., 2300 Graham, Grand Prairie, Texas;
Mr. O. C. Medart, Grand Prairie, Texas.

2. General -- complied with.

3. (a) Perdue Claims No. 1 to 17 inclusive located in unsurveyed area of White Canyon Mining District, State of Utah, projected into T 36 S, R 14 E, Salt Lake Base and Meridian. (See Map SMA 104)

3. (b) Perdue Group
3. (c) Owner
3. (d) Not applicable
3. (e) None
3. (f)

Perdue	#1	San	Juan	County,	Utah,	Book 68, Page 12
"	#2	"	"	"	"	Book 68, Page 13
"	#3	"	"	"	"	Book 68, Page 14
"	#4	"	"	"	"	Book 68, Page 15
"	#5	"	"	"	"	Book 68, Page 16
"	#6	"	"	"	"	Book 68, Page 17
"	#7	"	"	"	"	Book 68, Page 18
"	#8	"	"	"	"	Book 68, Page 19
"	#9	"	"	"	"	Book 68, Page 20
"	#10	"	"	"	"	Book 68, Page 21
"	#11	"	"	"	"	Book 68, Page 22
"	#12	"	"	"	"	Book 68, Page 23
"	#13	"	"	"	"	Book 68, Page 24
"	#14	"	"	"	"	Book 68, Page 25
"	#15	"	"	"	"	Book 68, Page 26
"	#16	"	"	"	"	Book 68, Page 28
"	#17	"	"	"	"	Book 68, Page 27

4. (a) Upon the recommendations September 4, 1955, of Messrs. Ward and Wood, consultant geologists of Dove Creek, Colorado, a drilling program was begun by the applicants in the Fall of 1955. Seventy non-core drill holes were drilled on the claims. These holes were drilled on four fences bearing northeast-southwest on the property. The initial 50 holes drilled were drilled on two fences, designated A and C on Map SMA 102, in an endeavor to determine if a channel existed on the claims. Hole No. 36 in this series indicated the first elevation change of the Moenkopi contact that could be attributed to scouring. Subsequent drill holes confirmed the existence of a decided scour surface or channel (See Cross-sections SMA 103). An additional 34 holes were drilled, of which 31 were within the scour channel. Eighteen of these holes within the channel were mineralized (See Drill Log).

4. (a) (Continued)

It is improbable that any of the holes drilled are open at the present time for examination.

There are no mine workings, production facilities, nor living accommodations on the property at present.

4. (b) There has been no production from this property.

4. (c) Geologic features: The Perdue Group of 17 mining claims lie in the Red Canyon Mining District of San Juan County, Utah. The portion of the property proposed to be explored under this proposal is covered with the Chinle formation, with the Shinarump formation where present 50 to 150 feet below the surface. All known mineralization in this area is confined to the Chinle and Shinarump formations, with more extensive deposits known in the latter. Ore, when encountered in the Shinarump, tends to occur in Paleostream channels, and according to Thomas W. Mitchum and Charles Evenston, as reported in "Economic Geology," volume 50, No. 2, these channels may be as broad as 2300 feet, and favorable places for ore localization are in the meander bends, or just downstream from meander bends, within these channels. The work performed to date on the property has not defined the limits of this channel, nor has it been possible to ascertain if the drilling has been within a bend or curve of the channel.

The above applicants wish to further explore this property under the proposed project because: (1) work to date has disclosed the evidence of a mineralized scour channel, (2) the outside limit of this channel has not yet been found and it is believed that higher grade ore will exist either within or on the other side of this channel, (3) these claims are located within the ore-producing belt of the area and have been shown to be mineralized. (See Exhibits A and B, reports of Russell L. Wood and Robert Ward, and Exhibit C, report of Dr. Clarence A. Lamb.)

4. (d) The Perdue group of claims is accessible from Monticello, Utah, over Utah State Highway 47, to Blanding, Utah, thence over county roads through White Canyon, Red Canyon to Rainbow Canyon road. (See Location Map SMA 101) The project is located 2 miles north of the Rainbow Canyon road junction. These roads are all-weather roads. Short distances of the roads are subject to washouts during the cloudburst season. Monticello, Utah, a distance of 97 miles, is the principle supply point of the area. All ore shipments would be made to the White Canyon receiving depot, a distance of 28 miles. Residence or living accommodations must be provided at the camp.

4. (e) Adequate skilled mining labor is available in the area. Materials and supplies can be secured at Blanding and Monticello, Utah. Limited quantities of food and small supplies can be purchased at White Canyon trading post and the Hite trading post, 38 and 24 miles respectively. Local storage ponds can provide drill

4. (e) (Continued)

water during the rainy periods. During the dry months water must be transported from Rainbow Springs, a distance of approximately 15 miles. Drinking water is available at Rainbow Springs. Electric power must be generated locally. Butany, diesel or gasoline for fuel can be secured from deliveries made periodically by tank trucks into the area.

5. (a) Uranium.

5. (b) Proposed work: Reference Map SMA 102 and Cross-section SMA 103, and Drill Logs for work previously accomplished.

It is proposed in this project to drill 29 holes on Claims #14, 15, 16 and 17 in an extension of the drill fences marked A, C and D of previous drilling. These holes will be drilled in an endeavor to find the other side of the scour channel that has been outlined with the previous drilling. These holes will be drilled an average of 135 foot deep or to a depth sufficient to penetrate the Moenkopi formation. The above work will be considered Phase 1 of the project.

Phase 2 will be offset drilling of any ore holes encountered in Phase 1, offsetting these holes to the north and south approximately 100 feet. Further in Phase 2, offsetting to the north and south approximately 100 feet, the 18 ore holes found in the previous drilling. Phase 1 drill holes are indicated on the map, as well as Phase 2 drill holes offsetting the previous drilling. (See Map SMA 102) It is expected that Phase 1 of this project will define the west side of the channel that has been previously indicated on the property. It is further expected that mineable ore will be found within this channel or on its westerly side. Phase 2 drilling will determine if any ore encountered in Phase 1 can be expected to extend northerly and southerly through the channel and will further determine if the low grade ore found in the previous drilling project is continuous or semi-continuous, and if so if of a commercial grade.

The drilling will be closely supervised by a resident geological engineer on the property during the entire drilling program in order to determine when the channel has been defined and to relocate holes to a more favorable position from the geologic information that will be secured. A bulldozer will be retained on the job during all drilling to facilitate any relocations necessary.

5. (c) The work will start within 120 days and be completed within 6 months from the date of an exploration project contract.

5. (d) The exploration and supervision of operations connected therewith will be under the direction of E. E. Lewis and Associates, contract miners and engineers. A brief summary of the experience of their chief engineer and their field engineer is enclosed.

SNEED, MEDART & ANDREWS
P. O. BOX 501
GRAND PRAIRIE, TEXAS

6. (a)	Independent Contractors:	
	(1) Dozer for drill roads and drill sites	
	40 hours at $18.00 per hour	$ 720.00
	(2) Dozer standby for use relocation of sites	
	60 days at $500.00 per month	1,000.00
	(2) Drilling-Phase 1:	
	29 holes at 135 ft. each	
	85' non-core, 50' core per hole	
	2465' non-core at $1.75 per foot	4,313.75
	1450' core at $2.75 per foot	3,987.50
	Phase 2:	
	20 holes offset Phase 1	
	24 holes offset previous drilling	
	44 holes at 135' each	
	85' non-core, 50' core per hole	
	3740' non-core at $1.75 per foot	6,545.00
	2200' core at $2.75 per foot	6,050.00
6. (b)	Engineering and Supervision:	
	1 - Engineer to log holes and supervise all work	
	3 months at $750.00 per month	2,250.00
	1 - Sampler and survey helper-general utility	
	3 months at $450.00 per month	1,350.00
6. (c)	Core boxes for preservation of samples	
	150 at $1.25 each	
	Misc. paper, logsheets, flagging, stakes	75.00
6. (d)	Operating equipment (to be rented):	
	Hole probing instrument, 3 months @ $100/month	300.00
	Pickup truck, 3 months @ $175/month	525.00
6. (e)	Rehabilitation and repairs	none
6. (f)	New buildings:	
	(1) Combination field office and bunkhouse	
	12' x 16' - cost used $350., erection $250	600.00
6. (g)	Miscellaneous:	
	(1) Chemical analysis - 73 holes average 2 assays each at $3.50; 146 analyses at $3.50	511.00
	(2) Maintenance:	
	Probing equipment - 1 set batteries	12.00
	Fuel & main. for pickup, 12 trips to Monticello at 200 miles - 2400 miles @ $.05	120.00
	(3) Accounting cost - $50.00/month	150.00
	(4) Payroll Taxes - 10% of payroll (incl. Workmens Comp., Unemploy. taxes, etc.)	360.00
	(5) Property Liability Insurance	75.00
6. (h)	Contingencies:	
	Possible drill delays standby time $12.00/hr.10 hr.	120.00
	Completion report	150.00
	Total Project Cost	$29,214.25

SNEED, MEDART AND ANDREWS
P. O. BOX 501
GRAND PRAIRIE, TEXAS

SUMMARY OF QUALIFICATIONS OF E. E. LEWIS

Elbert E. Lewis, 589 North 23rd, Grand Junction, Colorado.

Education: Colorado School of Mines, Golden, Colorado, Engineer of Mining, Engineer of Metallurgy. Post-graduate work in geology and business relations, St. Louis University, Missouri.

Professional Experience:

Mine operator, Colorado Plateau.

General Superintendent, Manganese Co. of Arizona.

General Superintendent and Assistant Manager, Yucca Mining and Milling Company, Arizona.

General Milling Superintendent, International Mining Company.

Engineer, St. Joseph Lead Company.

Major, Corps of Engineers, United States Army.

Professional Memberships:

American Institute of Mining & Met. Engineers,

Arizona Small Mine Operators Association,

Colorado Mining Association,

Uranium Ore Producers Association.

Registered Professional Engineer, State of Missouri.

Registered Professional Engineer, State of Colorado.

RUSSELL L. WOOD
BOX 392
DOVE CREEK, COLO.

OFFICIAL FILE COPY
DMEA
RECEIVED 1957

September 4, 1955

Mr. M. C. Andrews, Jr.
P. O. Box 926
Grand Prairie, Texas

Dear Mr. Andrews:

In accordance with your request, I have examined the claims in Blue Canyon owned by you, Mr. Sneed, and Mr. Medort. As I indicated in our telephone conversation of September 3rd, I believe that these claims have considerable merit, and are worthy of further work.

My partner, Mr. Robert Ward, a geologist, did most of the field work on the geology of this property. Both he and I believe that the existing maps of the property are incorrect with regard to the location of the claims in respect to the topography. If this is the case, the location certificates as filed should be examined to be sure that the claims are not described on records locating them in the wrong sections.

Approximately one-half of the 12 claims, roughly 125 acres, will have Shinarump formation present. The Shinarump on the remainder of the property has been eroded away, exposing the Moenkopi formation, which does not normally contain uranium. The accompanying sketch map shows the approximate location of the Shinarump outcrop on the property.

The Shinarump formation is from 12 to 15 feet thick, medium to fine-grained conglomerate, well cemented and massive. Outcrops of the Shinarump on the property gave radiometric readings of from .025 to .035 Mr/Hr. A horizontal expanse of only 10 to 15 feet of Shinarump is exposed between the top of the Moenkopi and the point where the Chinle formation begins. The Chinle rises steeply for a distance of 60 to 70 feet where it forms an irregular bench which extends back to the base of the Wingate formation.

Local disturbance in the Chinle has caused the massive sandstone formation within the Chinle to heave and buckle, forming a series of northeast trending faults having an average dip of 20°. The Shinarump and Moenkopi formations beneath the Chinle show no such movement. This disturbance in the Chinle should not affect any mining done in the Shinarump, except in the vicinity of the faults where some heavy ground might be encountered. It will however make access to the property more difficult.

Of the 125 acres containing Shinarump, approximately 100 acres will be reasonably accessible to drill. Drilling will have to be done with a rotary-type drill, as drilling conditions in the Chinle and Shinarump will not permit the use of a wagon drill. The depth

of holes drilled to the contact of the Shinarump and Moenkopi formations should not exceed 90 feet.

There is approximately 3000 feet of rim exposures showing the Chinle-Shinarump and Shinarump-Moenkopi contacts. Radioactivity ranging from fair to good was recorded at nearly every place that the Shinarump is exposed. This is a very favorable indication that commercial grade uranium ore may occur behind the outcrops.

Most uranium ores are water soluble to some extent. As a general rule, it is found that weathering and the chemical action of ground water will leach some or most of the uranium from an outcrop. Thus it is often found that the presence of low-grade ore on an outcrop will be an indication of higher grades of ore beneath the cover behind the outcrop.

The amount of radioactivity of the Shinarump contacts depends upon the amount of ore present, and the amount of talus cover which may be lying on the outcrop. For this reason, it was not possible to determine the locations or trends of any channels which might be present on the property.

In the event that you desire to do further work upon this property, I would recommend the following course of action:

1.) Building a road onto the property from Rainbow Canyon. This road will be approximately one mile in length, and should cost between $600 and $700.
2.) Rim-strip with a bulldozer certain portions of the Shinarump outcrop which show above normal radioactivity, or where radioactivity would be expected.
3.) Make a new appraisal of the property following this work to determine the amount and location of any drilling.
4.) Drill as necessary to find and block out any ore present.

I would estimate that the total amount of dozer work will not exceed $800 to $900. The amount of drilling that will have to be done will depend upon what ore is found. A minimum of $3000 worth of drilling (approximately 25 holes 75 feet deep) is recommended as an initial pattern. If ore is not found at the end of this program, further work would probably not be advisable. If ore should be found during this program, drilling could be stopped and the property leased, or additional drilling could be done and mining started, or the property could be leased at a higher royalty.

Additional engineering and geology work necessary for road locations, rim-striping, and drill layouts will cost approximately $200. Any additional work done beyond this program will cost roughly eight to ten percent of the total drilling cost, or at the rate of $100 per day.

If I may be of further assistance to you in any way, please feel free to call upon me at any time,

Very truly yours,

Russell L. Wood

Russell L. Wood
Engineer of Mines

1 enc.

DMEA
RECEIVED JUL 1 1957
DATE | CODE

RUSSELL L. WOOD
BOX 392
DOVE CREEK, COLO.

July 15, 1956

THE PERDUE GROUP

Red Canyon, Utah

The Perdue Group consists of seventeen lode mining claims lying in the Red Canyon District of San Juan County, Utah. At the time that the property was staked and surveyed, the legal subdivisions had not been established, and only an approximate location can be assigned to the claims. By the topographic map of White Canyon 3, N. E., Utah, published by the U. S. G. S. the property lies in sections 10, 11, 14, and 15 of Township 36 North, Range 14 East, Salt Lake Meridian.

The Perdue Group was examined by the writer, and a preliminary report submitted to the owners in September of 1955. The property showed possibilities that warranted a drilling program, which was recommended in the report. Accordingly, drilling was begun on October 5, 1955 in an attempt to locate a minable orebody.

GEOLOGY:

Approximately two-thirds of the seventeen claims have a surface exposure in the Chinle Formation, with the possibility of the Shinarump formation, where present, being between 50 and 150 feet below the surface. The contact between the Chinle and the Moenkopi, or between the Shinarump and the Moenkopi is partially exposed on three sides of the property, but due to talus and overburden it is impossible to obtain an accurate radiation survey with a scintillator.

The mineralization is typical of that found in other property in the Red Canyon and White Canyon areas. Better mineralization is usually confined to areas where the channels are well-defined, and where the Shinarump is feathering out. Considerable amounts of pyrite are associated with the radioactive material. However in contrast to the rest of the known channels in the area, no copper minerals were found in this channel.

The rock encountered in a typical drill hole consisted of green to grey mudstones through the Chinle formation. This rock contained no carbon and was usually very fine grained. The Shinarump, where encountered consisted of interbedded sandstones, conglomerates, mudstones, and limestone members. The color varied from red to black, with littleor no carbon, and ranging from fine to coarse grains. The Moenkopi was a fine to medium grained red mudstone, with no carbon.

DRILLING:

All drilling was done with a Mayhew 1000 rig, using four and one-quarter to four and three-quarter inch bits. All holes were drilled dry with air, as no water was encountered during the drilling

program. Samples were caught at five foot intervals, unless changes in color or lithology of the formations indicated that closer sampling be conducted. The drill logs were kept by a resident geologist, and all changes in formation were noted in the logs. The cuttings were checked with a small hand type geiger counter, and the holes were logged as soon as completed with a Babbel Model 610 counter and 1000 foot probe unit.

A total of 70 holes were completed under this drilling program. Drilling was suspendd on December 15, 1955 when the weather conditions and lack of housing facilities forced a suspension for the winter.

The drill program was based on the idea of drilling one or more "fences" across the property at right angles to the supposed course of any channels in the area. Holes along this fence were to be on 100 foot centers, and the two parallel fences were several hundred feet apart. Drilling spacing was determined to some extent by the surface topography which prevented accurate hole spacings.

DRILLING RESULTS:

The first evidence of a channel was found in drill hole No. 36. A dip in the formations of approximately 20 feet vertically in 100 feet laterally, together with a definite change in the lithology of the formations showed the presence of one side of a channel, but extensive drilling failed to locate the other side of the channel, which may be the outside of a curve, and consequently the logical location of any orebody.

No commercial ore was encounted in any of the surface showings or drill holes. However, considerable amounts of low-grade material was found in the drilling program. No attempt was made to trace down this low-grade to find better ore.

DRILLING ANALYSIS:

Sufficient information has been obtained from the preliminary program to plan a new drilling program. This new program should include some holes drilled between the existing favorable holes, because some of the channels in the Red Canyon area have good orebodies considerably narrower than 100 feet in width. The west side of the channel should be located, if it falls within the Perdue Group.

If the west side of the channel does not fall within the Perdue Group, sufficient drilling should be done along the property line to determine the local direction of the channel, and additional drilling be done in a direction that will find the channel entering the Perdue Group. Once the higher grade ore has been located on the channel proper, this ore should be followed without regard to the course of the channel edges.

Any future drilling programs should include provisions for having a bulldozer on the job for the entire duration of the drilling program in order that drill sites may be located with respect to

the results obtained from previous holes rather than to conform to surface conditions. Drilling on this property must be rather closely supervised in order to keep within the channel boundaries, and to take advantage of the information that may be obtained through the lithology of the formations.

I would recommend that any additional drilling programs be conducted at the more favorable times of the year, because living conditions at best are not too good in the area. Summer cloudbursts may isolate the camp from the drill, and the camp from outside contacts.

Any additional drilling programs should plan on not less than 50 additional holes. Coring is neither economical nor advisable in this area. Ore, where encountered, may be analyzed through the drill cuttings and probing of the holes. All holes should be surveyed in as rapidly as possible, collar elevations established, and vertical sections drawn as soon as possible so as to guide further drilling.

4 States Radioactive Minerals Co.
P.O. Box 251

BLANDING, UTAH

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 1 1957

DATE	INITIALS	CODE

August 25th 1955

Mr. Dan Wadsworth
Rogette Motel
Dove Creek, Colorado

Dear Mr. Wadsworth:

Persuant to your recent request I visited the Perdue Claims, (12) located in Blue Canyon, an East finger of Red Canyon. These claims are in an unsurveyed area of the White Canyon Mining District but very recent government maps will show these claims to be in Township 36 South, Range 14 and 15 East, Salt Lake Base and Meridian, as shown on the map accompanying this report. The row of townships south of the principal base line, comprising the top row in Township 36 South, were surveyed in at 3000 ft. instead of 5280 feet, or one mile - since a township is suposed to be 1 mile square, or nearly so. This fore-shortening was done to compensate for other surveys coming up from the southern part of the state and meeting on this principal base line for an adjustment - full townships being surveyed to the north of this principal base line. It is important that this foreshortening between the latitudes of 37°40' and 37°35' be taken into account in locating your claims, otherwise there would be a descrepency of 2,280 feet in the placement of your claims. When the claims were surveyed, they were tied into their proper position by three methods: Latitude and Longitude with contours from photogeological maps of the U.S.Geodedic Survey; triangulation with a known peak in the vicinity - Chocolate Drop Peak; and from recent surveys by the government that will be in print in the near future, to establish the Township and Range of this area.

A great deal of drilling and exploration work has been done in this area during the past six months under the supervision and expense of such groups as: A.E.C., Ula Corp., Wyco, Inc., White Canyon Uranium Corp., Susan B Uranium Inc., Meilson Bros, Mr. Wilhite, Plateau Uranium Inc., Beacon Uranium Corp., Mineral Mining, Inc., Mineral Engineers, Inc., to name but a few. Many of these have found rich deposits and are actively preparing for extensive shipments. For example Plateau, Uranium, Inc. Mr. Baumgardner, President, owns claims in Frey Canyon near the Ula property and also near the Maybe Mines. He has reported rich finds in their extensive drilling program.

The Chinle formation is exposed under the high Wingate cliffs in every valley along the Blue, Red, White and Frey Canyons. In some places where the erosion is deep, the canyon walls will show shinarump putoroppings. It is in this Shinarump formation that the richest ore is found. The "Moss Back" formation of the Shinarump strata is named after Moss Back Mesa and Canyon area between Red and White Canyons to the South-East of these claims.

4 States Radioactive Minerals Co.
P.O. Box 251
BLANDING, UTAH

You will note on the accompanying sketch map that I have indicated a possible ore channel in the Triassic formations and have indicated that it may have had a NW-SE trend. It has been presumed by many geologists that the Shinarump channel trends was SW-NE. The reason for this was that there is a very well defined channel running SW-NE from the East side of the Abajo Mts. southerly into Arizona on both sides of what is now known as the Comb Reef. This channel includes such very wealthy mines as the Ransome Mines that just sold for 5 million dollars and the Monument No. 2 Mines of the V.C.A. that has already produced millions of dollars worth of ore and the ore body is still very extensive.

The rich producing mines in this immediate area of the Perdue Claims, such as the Happy Jack where morethan 250 million dollars in ore has been blocked out; the Blue Lizzard with 15 million dollars in ore in place; the Maybe Mine with more than 10 to 15 million dollars in ore in place and many others, all show a strong channel trend as indicated on the sketch running from the NW toward the SE and your Perdue claims seem to be right in line with these producers.

The formation outcrops on your claims are typical of the area: Chinle and Shinarump - as they should be. However, you will find that much of the outcropping or surface area will be leached or washed out as it were. Water washing and leaching is evident in all of these canyons and if rich ore is to be found it will be well back in under the Wingate cliffs. For example: Pep Redd found very little showing on the surface where the Blue Lizzard Mines are located. Mr. Redd drilled about 900 feet back toward the cliff from the outcropping and struck very rich ore, then tunneled back to the ore body. At the present writing it is reported that the Blue Lizzard sold for 6 million dollars on the strength of the amount of ore blocked out by drilling.

A drilling program on the Perdue claims is strongly recommended and should be undertaken before a mining program is planned. The ore from these claims would be shipped to the A.E.C. buying station in White Canyon. The road in Blue and Red Canyons would have to be maintained with a bulldozer. However, the road from Red Canyon to White Canyon via Hidden Valley will be found to be well graded and well kept and usually in very good condition.

Camping facilities in this area are excellent - good spring water, high ground for camp sites and a recent opening of a trading store in White Canyon eliminates the long drive to Blanding or Monticello to shop.

I think that there is an excellent chance - better than even - to develop a good producer of uranium ore on these Perdue claims.

Yours truly Dr Clarence A. Lamb
Engineer - Geologist - Surveyor

R. D. BAILEY
ASSOCIATE

DR. CLARENCE A. LAMB
LIC. LAND SURVEYOR

LAMB SURVEYING SERVICE

BOX 536 - MONTICELLO, UTAH
BOX 251 - BLANDING, UTAH

AFFIDAVIT OF SURVEYING

STATE OF UTAH)
) SS
COUNTY OF SAN JUAN)

I, CLARENCE A LAMB, THE UNDERSIGNED, do hereby certify that the following claims were Stadia Surveyed under my supervision;

Further, that the map as drawn, is a true representation of the field work, and that the map is correct to the best of my knowledge.

Further, that the survey was made, and the map of the survey was drawn for: J. W. Sneed, O.C. Medart and M. C. Andrews, Jr.

Further, that the names of these claims as recorded are as follows: PERDUE NO. 1 through 12 inclusive and are located in Blue Canyon, White Canyon Mining District, San Juan County, Utah.

IN WITNESS WHEREOF: I have hereunto set my hand and affixed my seal this 30th day of August 1955

Dr Clarence A Lamb

Dr. Clarence A. Lamb, Lic.Land Surveyor No. 1706
State of Utah

STATE OF UTAH)
) SS
COUNTY OF SAN JUAN)

On this 30th day of August 1955, personally appeared before me, Dr. Clarence A. Lamb, the signer of the foregoing instrument, who duly acknowledged to me that he executed the same and has identified himself as the signer thereof.

My commission expires 11/7/58

M. F. Lyman

Notary Public
Blanding, County of San Juan,
State of Utah

U. S. Government Messenger Envelope

Standard Form No. 65 (Rev. 1/46)

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2. Void previous block.
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12/26	[illegible]	700
12/27	Selfridge	138
		~~[illegible]~~
"	Mittendorf	109
12/27	gb	220
		~~700~~
12/27	Lamb	(139)
12/27	Nelson	(130)

225

DEC 27 1957

Mr. J. W. Sneed
Sneed, Medart and Andrews
P. O. Box 501
Grand Prairie, Texas

Re: Docket No. DMEA-4773 (Uranium)
Perdue Claim Group
San Juan County, Utah

Dear Mr. Sneed:

Your application for aid in an exploration project and other information available to us in Washington concerning the 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 some uranium mineralization on your property, indicates that the probability of disclosing significant ore reserves is not sufficiently promising to justify Government participation. We regret to advise you that, under these circumstances, your application for exploration assistance is denied.

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

Sincerely yours,

C. O. Mittendorf
Administrator

FLKnouse/izm 12-26-57
cc: Mr. Knouse
Admr.'s Reading File
Operating Committee
THKiilsgaard, 5224
DMEA FT Reg. 3 (2)

8623

Docket

Kuyper
Ellis

December 26, 1957

Summary of Proposed Project

Object: Denial of application for exploration aid.

Docket No. DMEA-4773

Commodity: Uranium

Applicant: Sneed, Medart and Andrews, a Partnership
P. O. Box 501
Grand Prairie, Texas

Property: Consists of 17 contiguous unpatented lode mining claims in (unsurveyed) T. 36 S., R. 14 E., S.L.M.&B., San Juan County, Utah. The claims are Perdue Nos. 1 through 17.

Property Rights: Applicant is the owner, but the validity of claims 7 through 17 is questionable.

Application Date: June 17, 1957

Amount of Application: $29,214.25

Application Received in Washington: July 1, 1957

Referred to Region III: July 12, 1957

Property Examined: October 30, 1957 (after several attempts to set date)

Field Team Report Dated: November 1957

F.T. Report Received in Division: December 19, 1957

Work Proposed: Consists of a two-stage drilling program from the surface requiring 6,205 feet of non-core and 3,650 feet of core drilling in 73 holes to explore for uranium in the Shinarump member of the Chinle formation.

Stage I to consist of 29 holes in four southwesterly trending lines spaced 250 to 500 feet apart with holes in each line spaced 100 feet apart. The lines would be a continuation of the holes already drilled.

Stage II to consist of 46 holes drilled as offset holes spaced 100 feet from mineralized holes already drilled and also to holes in Stage I that penetrated mineralization.

Exploration on the property consists of 70 non-core holes drilled in four lines in a northeast bearing across the property. At least 31 of the holes were drilled within the shallow channel scours.

Estimated Cost

Independent Contracts

6,205 ft. non-core drilling @ $1.75/ft.	$10,858.75	
3,650 ft. core drilling @ $2.75/ft.	10,037.50	
40 hrs. tractor w/dozer operating time @ $18/hr.	720.00	
Standby time, 2 mths. @ $500/mth.	1,000.00	$22,616.25

Labor, Supervision, Technical Services

Engineer, 3 mths. @ $750/mth.	2,250.00	
Sampler, 3 mths. @ $450/mth.	1,350.00	$3,600.00

Operating Materials and Supplies

*150 core boxes @ $1.25/each	187.50	
Miscellaneous	75.00	$262.50

Operating Equipment

Hole probing unit, 3 mths. @ $100/mth.	300.00	
Truck, 3 months @ $175/mth.	525.00	$825.00

New Buildings

Field Office	600.00	$600.00

Miscellaneous

146 chemical analyses @ $3.50/each	511.00	
Maintainance, truck & probing equipment	132.00	
Accounting, 3 mths. @ $50/mth.	150.00	
Taxes and insurance	435.00	
Contingencies	270.00	$1,498.00

Total Estimated Cost of the Project $29,401.75

Government Participation @ 75 % $22,051.31

* Not included in Applicant's cost estimate.

Field Team Report - dated Nov. 1957 - David A. Phoenix, USGS & H.F. Robertson, USBM:

The rock exposed in the vicinity of the property comprise the Moenkopi and Chinle formations of Triassic age. At the base of the Chinle, thin discontinuous beds of dark-colored sandstone - the Shinarump member - rests disconformably upon the Moenkopi formation. In the district uranium deposits are largely restricted to easterly trending belts, near and parallel to pinch-out of the Shinarump member, and in sediments that fill ancient stream channels cut into the Moenkopi formation. Uranium mineralization is usually associated with copper minerals and carbonaceous material.

On the property uranium minerals were not observed on the outcrops nor were significant concentrations of these minerals discovered by drilling (31 holes of the 70 holes drilled were within shallow channel scour). Ancient stream channels of the type that elsewhere are mineralized are absent in the area nor do the sediments contain copper minerals or appreciable quantities of carbonaceous material. Also, the property is about 8 miles north of the belt of rich uranium deposits. Therefore, it is believed that further exploration of the property will not encounter sediments of the Shinarump member that materially differ from those on the outcrop and for these reasons the chances of discovering significant uranium on the property is considered remote. Denial of the application is recommended.

Commodity Member's Comments:

USBM, James Paone, dated December 18, 1957:

Agrees with the Field Team.

USGS, N. E. Nelson, dated December 20, 1957:

"Lack of favorable indicators as copper stains and carbonaceous matter, and because no ore was encountered in the drill holes and none has been found in the rims, causes the examiners to conclude there is no reason for thinking an ore-bearing channel or scour exists in the property. Therefore they recommend that the application be denied.

"I concur with the recommendation."

Div. of Rare & Misc. Metals, F. L. Knouse, December 26, 1957:

The field examination indicates that a favorable horizon for significant uranium deposits on the property are believed to be absent and that the probability of discovering signficant uranium on the property is remote. The writer concurs with the Field Team and recommends denial of the application.

Conclusions:

A review of all our information relating to the proposed project, indicates the probability of making a significant discovery of uranium on the property is not sufficiently promising to justify Government participation, and the application should be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Director
Division of Rare and
Miscellaneous Metals

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Comments
Complete

IN REPLY REFER TO:

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

December 20, 1957

Re: DMEA 4773
Sneed, Medart and Andrews
Perdue Claim Group
San Juan County, Utah
Uranium

Memorandum

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

From: N. E. Nelson, U. S. Geological Survey

Subject: Review of Field Team Report

The applicants requested assistance in doing further drilling in an attempt to outline a uranium-bearing Shinarump-Moenkopi channel or scour. The property has been extensively drilled, by 70 holes, not one of which cut ore grade material.

Lack of favorable indicators as copper stains and carbonaceous matter, and because no ore was encountered in the drill holes and none has been found in the rims, causes the examiners to conclude there is no reason for thinking an ore-bearing channel or scour exists in the property. Therefore they recommend that the application be denied.

I concur with the recommendation.

N. E. Nelson

N. E. Nelson

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[illegible]

[illegible] December 18, 1957

[illegible] 4773

[illegible] Uranium

[illegible] Sneed, Medart and Andrews

[illegible] Perdue Claim Group

[illegible] San Juan County, Utah

[illegible] $29,401.75

[illegible] Ernest William Ellis, DMEA Member
Uranium Commodity Committee

[illegible] James Paone, Bureau of Mines Member
Uranium Commodity Committee

JP

[illegible] Field Team Report

[illegible]

1. Date of [illegible] 12/11/57. 2. Date [illegible] 12/17/57

3. Prior reports on this property [illegible] Yes [ ] No [ ]

4. Prior reports on nearby properties known to reviewers: Yes [ ] No [ ]

5. Information available on past production: Yes [ ] No [ ]

6. Other pertinent factors known to reviewers: Yes [ ] No [ ]

7. Explain items marked yes above:

8. Factors meeting special consideration:
   a. Location [ ]
   b. Ownership [ ]
   c. Evidence of mineralization [ ]
   d. Geology [ ]
   e. Proposed exploration method [ ]
   f. Alternate exploration method [ ]
   g. Costs [ ]
   h. _____ [ ]

9. Action advised:
   a. Obtain information from applicant [ ]
   b. Refer to Field Team [ ]
   c. Denial [X]
   d. Agree with Field Team [X]
      i. Consult with Mr. _____ at _____ Alt office.
   e. Disagree with Field Team [ ]
   f. Suggest alternate plan [ ]
   g. Request another examination [ ]
   h. Approval [ ]

10. Remarks: (Use back of page if necessary)

UNITED STATES
DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

224 New Customhouse
Denver 2, Colorado

December 11, 1957

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ON-SITE EXAM

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Docket No. DMEA 4773 (Uranium) Sneed, Medart and Andrews (Perdue Claim Group) San Juan County, Utah - Joint Geologic and Engineering Report

Enclosed are the original and two copies of the Joint Report of Examination on the subject property by David A. Phoenix, USGS, and H. F. Robertson, USBM.

The field examiners conclude that the probability for making a significant discovery is not sufficiently promising to justify Government participation. Accordingly, they recommend that the Applicant's work proposal be denied in which the Field Team concurs.

W H King
W. H. King
Executive Officer

Reviewed by
DMEA OPERATING COMMITTEE
12-18-57
(date)

DMEA

DEPARTMENT OF THE INTERIOR

DEC 10 1957

REGION III

DENVER, COLORADO

MINERAL DEPOSITS

IN REPLY REFER TO:

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WHK

HMC

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

P. O. Box 360

Grand Junction, Colorado

GEOLOGICAL SURVEY

DENVER, COLORADO

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DMEA

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TRANSMITTED

DEC 11 1957

December 9, 1957

Memorandum

To: W. H. King, Executive Officer, DMEA Field Team, Region III

Through: E. N. Harshman

From: J. William Hasler

Subject: Transmittal of joint geologic and engineering report, DMEA Docket No. 4773 (Uranium), Sneed, Medart and Andrews Perdue claim group, San Juan County, Utah.

Enclosed are 10 copies of a joint geologic and engineering report of examination on DMEA docket No. 4773, Sneed, Medart and Andrews, on their Perdue group of claims, in an unsurveyed part of the White Canyon mining district, state of Utah, projected into T. 36 S., R. 14 E., Salt Lake Base and Meridian. The claims are in Red Canyon, San Juan County, Utah and may be reached by traveling 100 miles west of Blanding, Utah.

The application was referred to the field and an examination was made on October 30, 1957 after several attempts to set the date of examination at an earlier date. David Phoenix, geologist, U. S. Geological Survey and H. F. Robertson, mining engineer, U. S. Bureau of Mines, examined the property in company with Mr. J. W. Sneed and Mrs. M. C. Andrews, representatives of the applicants. These people were accompanied to the property by N. T. Green of the U. S. Atomic Energy Commission.

In the White Canyon mining district uranium deposits are largely restricted to an easterly trending belt from Deer Flat on the east to the head of Red Canyon on the west. The deposits are near and parallel to a regional pinch-out of the Shinarump member. In detail, uranium minerals are restricted to sediments that fill ancient stream channels cut into the Moenkopi formation and they are usually associated with copper minerals and carbonaceous material in the form of fossil logs and plants.

On the Perdue group of claims uranium minerals were not observed on outcrop nor were significant concentrations of these minerals discovered by drilling. The absence of uranium minerals on the outcrop and in the drill cuttings from the property is probably due to the fact that the Shinarump member in this area is thin and discontinuous. Ancient stream channels of the type that elsewhere are mineralized are absent in this area nor do the sediments contain copper minerals or appreciable quantities of carbonaceous material. Furthermore, the Perdue claims are about 8 miles north of the belt of rich uranium deposits. It is believed that further exploration in the area of the Perdue claims will not involve

Reviewed by DMEA OPERATING COMMITTEE

12-18-57

(date)

sediments of the Shinarump member that materially differ from those on outcrop and for this reason the chance of discovering uranium on this property is believed remote.

The Shinarump member of the Chinle formation is the uranium-bearing unit in the White Canyon mining district, and this unit is generally unfavorable in the Perdue group of claims, for the occurrence of uranium for it lacks mineralogic and stratigraphic features that are associated with the belt of uranium deposits to the south. Even though diamond drilling to the Shinarump member in the area has penetrated weak mineralization at the base of the unit and even though the mineral occurs in a poorly defined channel it is not believed that they are sufficiently well defined so as to indicate a nearby uranium deposit.

It is therefore concluded that the application under DMEA docket 4773 be denied because of unfavorableness of the Shinarump member in the vicinity of the Perdue group of claims. I concur with the conclusions and recommendations of the examining team.

The Atomic Energy Commission was consulted relative to the appraisal of the property and the memoranda from W. P. Williams, U. S. Geological Survey and James Paone, U. S. Bureau of Mines, of the Washington office were noted.

Enclosed with the report are 3 figures on 2 pages. Figure 1, location map, Perdue group of claims, Sneed, Medart and Andrews, Red Canyon area, San Juan County, Utah; figure 2a, geologic index map of the claim area, and figure 2b, geologic index map of the White Canyon mining district.

Enclosed also is the applicant's brochure.

J. William Hasler

J. William Hasler,
Geologist

JWH/bh

Enclosures

FOR UNITED STATES GOVERNMENT USE ONLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
FRED A. SEATON, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY EXAMINING TEAM
REGION III

TRANSMITTED
DEC 11 1957

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DMEA 4773

Sneed, Medart and Andrews

Perdue claim group

San Juan County, Utah

Uranium

Joint Geologic and Engineering Report

by

David A. Phoenix
Geological Survey

H. F. Robertson
Bureau of Mines

November 1957

Reviewed by
DMEA OPERATING COMMITTEE
12-18-57
(date)

DMEA 4773
SNEED, MEDART AND ANDREWS
PERDUE CLAIM GROUP
SAN JUAN COUNTY, UTAH

CONTENTS

Joint Geologic and Engineering Report

	Page
Introduction and Summary	1
Acknowledgments	2
Location, Topography, and Physical Features	2
History and Production	4
Ownership and Extent	5
Present Status	
Exploration and development	6
Mining equipment and other facilities	6
Geology	7
Occurrence of uranium	7
Proposed Exploration	8
Conclusions and Recommendations	10

ILLUSTRATIONS

Figure	Follows page
1. Index map, Sneed, Medart and Andrews, Perdue claim group, San Juan County, Utah	10
2a. Geologic index map of Perdue claim area, Sneed, Medart and Andrews, San Juan County, Utah	10
2b. Geologic index map of the White Canyon mining district, after maps compiled by the AEC, Perdue group of claims, Sneed, Medart, and Andrews, San Juan County, Utah	10

DMEA 4773
SNEED, MEDART AND ANDREWS
PERDUE CLAIM GROUP
SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

Sneed, Medart and Andrews applied for Government assistance (DMEA 4773) on June 17, 1957 to explore for uranium deposits on their Perdue group of claims in an unsurveyed part of the White Canyon mining district, state of Utah, projected into T. 36 S., R. 14 E., Salt Lake Base and Meridian. The claims are in Red Canyon, San Juan County, Utah and they can be reached by traveling 100 miles of dirt road west of Blanding, Utah (fig. 1).

The Perdue group of claims was examined on October 30, 1957 by David A. Phoenix, geologist, U. S. Geological Survey, and H. F. Robertson, mining engineer, U. S. Bureau of Mines. Mr. J. W. Sneed and Mrs. M. C. Andrews of Sneed, Medart and Andrews together with Norris T. Green of the U. S. Atomic Energy Commission accompanied the DMEA examination team during the field examination.

In the area of the Perdue group of claims the ore-bearing Shinarump member of the Chinle formation is thin and discontinuous and where channels are present at the base of the member they are shallow and poorly defined. Sediments in the Shinarump member are poorly sorted sandstone and conglomerate weakly cemented with calcite and clay minerals. Iron and manganese oxide stain these rocks yellow brown to dark red

brown. No uranium minerals were observed on the property although anomalous radioactivity has been reported in drill holes that explored a shallow scour at the base of the Shinarump member. Because the lithologic characteristics of the Shinarump member are not favorable to ore and because there are no well-defined channels on the property it is believed that the chances of finding an ore deposit of significant grade and tonnage are not good. It is recommended that the application for exploration assistance be denied.

ACKNOWLEDGEMENTS

The area proposed for DMEA aid has been discussed with personnel of the U. S. Atomic Energy Commission Exploration Division, Grand Junction Operations Office and their opinions have been considered in evaluating the property. Memoranda from W. P. Williams, USGS and James Paone, USBM were noted.

LOCATION, TOPOGRAPHY, AND PHYSICAL FEATURES

The 17 Perdue claims included in the subject application are a contiguous group of standard size, unpatented lode mining claims located in unsurveyed sections 10, 11, 14, and 15, T. 36 N., R. 14 E., Salt Lake Meridian, San Juan County, Utah (figures 1 and 2). The claims cover a low mesa at the mouth of Rainbow Canyon, a tributary of Red Canyon, White Canyon Mining District. The property is about 50 miles from the Atomic

Energy Commission Natural Bridges camp, via the Red Canyon access road and a very rough road up Rainbow Canyon. The AEC camp is 50 miles west of Blanding, Utah and 260 miles from Grand Junction, Colorado, the nearest major supply center.

The claims cover a low, isolated mesa, capped by a resistant sandstone bed in the lower part of the Chinle formation. Previous and proposed drilling has been confined to the more accessible parts of the rolling surface of this mesa where drilling sites can be prepared at a reasonable cost.

The climate of the region is arid, extremely hot during the summer months and mild to cold during the winter. Violent, local storms of short duration may occur at any season. Runoff from even light rainstorms may be extreme because of the absence of soil cover and vegetation other than sparse desert grasses and shrubs. Year-round operations are feasible in the area provided equipment is readily available for access road maintenance.

Ore from the area would most likely be trucked to the Texas-Zinc uranium mill at Mexican Hat, Utah, a distance of about 85 miles from the Perdue group of claims.

There are no unusual problems of supply, labor, power, or ore marketing except those inherent in mining operations at remote locations with poor access roads.

Water for domestic and drilling purposes can sometimes be obtained from springs in the nearby canyons but, in dry seasons, may have to be hauled as much as fifty miles from lower Red Canyon near the Colorado River. Dry drilling techniques have been successfully used in this area.

The proposed drilling would be done by an independent contractor who would furnish drilling personnel, housing, supplies, and equipment. The applicant would furnish technical and supervisory personnel.

HISTORY AND PRODUCTION

Exploration for uranium in the White Canyon-Red Canyon region dates from 1950. Successful drilling operations were first undertaken in upper Red Canyon, and since that time enthusiastic prospecting and mining has developed considerable tonnages of ore chiefly along an easterly trending belt between Deer Flat and the head of Red Canyon (fig. 2b). Blue Canyon has been partially explored but no uranium deposits of commercial size have been discovered to date. All the producing mines in the district are greater than 6 miles from the Perdue group of claims and there has been no uranium production from the applicant's ground. The nearest DMEA applications to date have been Docket No. 4679, Balboa Mining and Development Company, on claim groups in Blue Canyon about three miles east of the Perdue claims; and Docket No. 4579, Delta Mining Company, on a property at the "Chocolate Drop" about four miles south of

the applicant's claims. The Shinarump environment at both of these properties was poor and denial of the applications was recommended by the DMEA examining teams.

OWNERSHIP AND EXTENT

The property included in the proposed DMEA project consists of 17 unpatented lode mining claims in one contiguous group in unsurveyed Township 36 South, Range 14 East, S.L.M.

The claim group was originally located by Paul G. Perdue on March 21, 1955 and consisted of six claims. Location certificates of the Perdue claims nos. 1 through 6, are recorded at the San Juan County Recorder's office at Monticello, Utah, in Book 291, pages 472-474, inclusive. On August 27, 1955, amended location certificates were filed for the Perdue claims nos. 1 through 17 inclusive, in Book 68, pages 12-27 inclusive. These certificates were signed by J. H. Sneed, O. C. Medart, and M. C. Andrews, Jr. The validity of Perdue claims nos. 7 through 17 is questionable since it appears that no original claim notices were recorded for these eleven claims. There is also no record of the transaction between the applicant and the original locator of Perdue claims nos. 1 through 6.

In view of the recommendation for denial to be made on the proposed project, no attempt was made to clarify the applicant's control of the property.

PRESENT STATUS

Exploration and Development

Exploration on the Perdue claims to date has consisted of 70 non-core drill holes, all of which are on claims included in the proposed DMEA project. The holes were drilled on four fences bearing northeast-southwest across the property. Results obtained by the drilling indicate the presence of a shallow channel containing traces of anomalous radioactivity ranging up to 0.06 percent eU_3O_8 (according to hole probing results reported by the applicant). At least 31 of the 70 holes drilled were within the shallow channel scour.

Mining Equipment and Other Facilities

The applicant does not have any mining or exploration equipment on the property as of the date of this report. The proposed exploration would be done by an independent contractor who would furnish all drilling equipment, supplies, and personnel. Technical consultants would be utilized in guiding and supervising the exploration program.

A primary access road net has been constructed but would need rebuilding and extending to make the project area accessible to vehicles. Camping facilities used during the previous exploration were temporary and would have to be replaced. Electric power needs would require portable generating equipment.

GEOLOGY

The rocks in the vicinity of the Perdue group of claims comprise the Moenkopi and Chinle formations of Triassic age (fig. 2a).

The Moenkopi formation consists of even-bedded dark red brown siltstone and mudstone with lenticular strata of pale to dark-brown, fine-grained sandstone. The siltstone and mudstone mostly weather to smooth slopes but where these rocks are sandy they crop out as thin ledges; the strata of sandstone form ledges 5 to 20 feet thick that are discontinuous in distances of 1/4 to 1/2 mile. The base of the Moenkopi formation is not exposed in the mine area but nearby in Red Canyon the formation is 232 feet thick.

The Chinle formation of Triassic age consists mostly of vari-colored claystone and siltstone but near the base it contains conspicuous strata of sandstone and conglomerate. In the Perdue claim area a light-colored lenticular stratum of sandstone between 20 and 30 feet thick is about 75-100 feet above the base of the formation, and it forms the resistant surface for a low mesa within the Perdue group of claims. At the base of the Chinle formation thin discontinuous beds of dark-colored sandstone--the Shinarump member--rest disconformably upon the Moenkopi formation.

Occurrence of Uranium

In the White Canyon mining district uranium ore deposits are largely restricted to an easterly trending belt between Deer Flat on the east and the head of Red Canyon on the west (fig. 2b). The deposits are

near and parallel to a regional pinch-out of the Shinarump member. In detail, uranium minerals are restricted to sediments that fill ancient stream channels cut into the Moenkopi formation and they are usually associated with copper minerals and carbonaceous material in the form of fossil logs and plants.

On the Perdue group of claims uranium minerals were not observed on outcrop nor were significant concentrations of these minerals discovered by drilling. The absence of uranium minerals on the outcrop and in the drill cuttings from the property is probably due to the fact that the Shinarump member in this area is thin and discontinuous. Ancient stream channels of the type that elsewhere are mineralized are absent in this area nor do the sediments contain copper minerals or appreciable quantities of carbonaceous material. Furthermore, the Perdue claims are about 8 miles north of the belt of rich uranium deposits. It is believed that further exploration in the area of the Perdue claims will not encounter sediments of the Shinarump member that materially differ from those on outcrop and for this reason the chance of discovering uranium on this property is believed remote.

PROPOSED EXPLORATION

The applicant has proposed a two stage drilling program requiring an estimated 6,205 feet of non-core and 3,650 feet of core drilling in 73 holes at an estimated cost of $29,401.75. Government participation at 75 percent would be $22,051.31.

Stage I would consist of 29 holes in four southwesterly trending fences which would, in essence, be extensions of the fences of drill holes previously drilled by the applicant. The first stage holes would be confined to the Perdue claims nos. 14, 15, 16, and 17 on the west side of the claim group. Hole spacing within the fences would be 100 feet.

The proposed second stage would offset on 100-foot spacing, mineralized first stage holes and mineralized holes previously drilled by the applicant.

The estimated costs of the applicant's proposed program are as follows:

(1) Independent Contracts

Drilling:	
non-core - 6,205 feet at $1.75/ft.	$10,858.75
core - 3,650 feet at $2.75/ft.	10,037.50
Tractor-dozer	
operating - 40 hours at $18.00/hr.	720.00
standby - 2 months at $500/mo.	1,000.00

(2) Labor, Supervision, and Consultants

Engineer - 3 months at $750/mo.	2,250.00
Sampler - 3 months at $450/mo.	1,350.00

(3) Operating Materials and Supplies

*Core boxes - 150 at $1.25 each	187.50
Miscellaneous	75.00

(4) Operating Equipment

Hole probing unit - 3 months at $100/mo	300.00
Truck - 3 months at $175/mo.	525.00

(5) and (6) Rehabilitation, repairs, new buildings

Field office	$ 600.00

(7) Miscellaneous

Chemical assays-146 at $3.50 each	511.00
Maintenance on truck and radiometric equipment	132.00
Accounting cost-3 months at $50/mo.	150.00
Taxes and insurance	435.00
Contingency	270.00
Total estimated cost of Project	$29,401.75

* not included in applicant's cost summation.

The examining team does not recommend the applicant's proposal or present an alternate drilling program.

CONCLUSIONS AND RECOMMENDATIONS

The Shinarump member of the Chinle formation is the uranium-bearing unit in the White Canyon mining district. In the Perdue group of claims this unit is generally unfavorable to the occurrence of uranium for it lacks the mineralogic and stratigraphic features that are associated with a belt of uranium deposits to the south. Even though diamond drilling to the Shinarump member in the area has penetrated weak uranium mineralization at the base of the unit and even though the mineral occurs in a poorly defined channel it is not believed that they are sufficiently well-defined so as to indicate a nearby uranium deposit.

Denial of the application under Docket No. DMEA 4773 is recommended.

U. S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
NOVEMBER 1957
DOCKET 4773

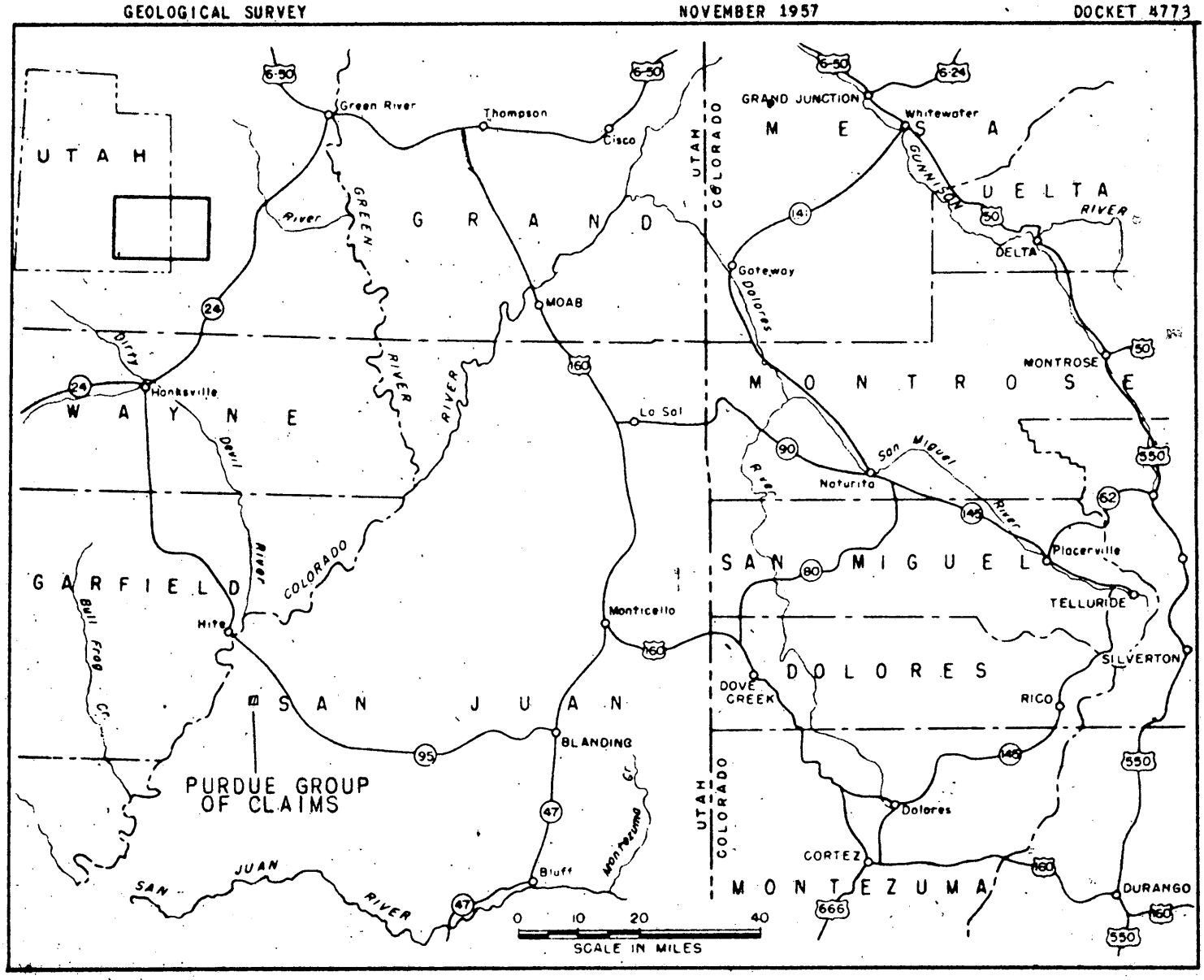


FIGURE 1.--LOCATION MAP; PERDUE GROUP OF CLAIMS; SNEED, MEDART, AND ANDREWS; RED CANYON AREA, SAN JUAN COUNTY, UTAH.

OFFICIAL FILE COPY
DMEA
RECEIVED

7/18 C 220
4 FLK 900

224 New Customhouse
Denver 2, Colorado

July 15, 1957

Memorandum

To: M. E. Salsbury
J. W. Hasler } w/enclosures, Items 1-5 below

From: DMEA Field Team, Region III

Subject: Docket DMEA-4773 (Uranium) Sneed, Medart and Andrews (Pardue Claim group) San Juan County, Utah

Enclosed is the following material relating to the subject docket:

1. Copy of application for Government assistance in exploration work under the DMEA program.
2. Memorandum of Review by James Faone, USGS.
3. Memorandum of Review by W. P. Williams, USGS.
4. Letter of transmittal of the foregoing to this office, dated July 12, 1957, from the Chairman, Operating Committee, DMEA.
5. Routing Control Sheet.

A field examination of the property and a joint report of findings and recommendations pertaining to the Applicant's work proposal are requested.

Eleven extra copies of each map used in the joint report which show the land to be subordinated and the location and extent of recommended work, relative to property boundaries, should be submitted if Government participation is recommended.

The Bureau of Mines' copy of the application should not be returned to this office, but is to be kept for the Examining Engineer's file. The Routing Control Sheet, however, is to be completed, detached from the application, and forwarded to the Executive Officer with the Joint Examination Report. The Survey's copy of the application is to be returned to Mr. Harshman's office.

Original signed by
W. H. KING

W. H. King
Executive Officer

Enclosures
HMC:jy
cc: Exec.Op.Comm. (2)
Harshman w/encls. Items 2-4
DMEA/EFC
Docket 4773
Chron.

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/11	Knouse	700
		700
7/12	Selfridge	130
7/12	Jones	110
	R. Mittendorf	100
7/12	P.K.	220
		700
7/12	Zilogan	130
7/12	Bishop	130

JUL 12 1957

Mr. J. W. Sneed
Sneed, Medart and Andrews
P. O. Box 501
Grand Prairie, Texas

Re: Docket No. DMEA-4773 (Uranium)
Perdue Claim Group
San Juan County, Utah

Dear Mr. Sneed:

The application for assistance in exploring your property, under the captioned docket number, has been reviewed by the Division of Rare and Miscellaneous Metals of the Defense Minerals Exploration Administration. It has been referred to:

Mr. William H. King
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

In the meantime, to speed the processing of your application, you should furnish (four copies each) bids from three drilling contractors for the drilling you propose to do. Three copies of each bid should be forwarded to Mr. King at the above address, and one copy each sent to this office.

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

Sincerely yours,

C. O. Mittendorf (for)

Administrator

Copy to: Elbert E. Lewis
P. O. Box 1481
Grand Junction, Colorado

FLKnouse/gla
7-11-57
cc to: Admr.'s Reading File
Code 700 Mr. Knouse
DMEA Field Team, Region III (2)

8623

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
7/11	Knouse	~~700~~
		~~700~~
7/12	GCS	130
7/12	Simpson	110
	Whittenden	100
7/12	P.K.	220
		700

JUL 16 1957

Mr. William H. King
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

Re: Docket No. DMEA-4773 (Uranium)
Sneed, Medart and Andrews
Perdue Claim Group
San Juan County, Utah

Dear Mr. King:

The captioned application is referred to Region III Field Team for investigation, a field examination if deemed advisable, and recommendations. We have requested the Applicant to forward to you three copies each of bids from three drilling contractors.

Enclosed are copies of memoranda, dated July 3 and 11, 1957, from James Paone, USBM, and W. P. Williams, USGS, respectively, relating to the proposed project. Also enclosed are two extra copies of the application for the use of the Field Team.

Sincerely yours,

George C. Selfridge

Chairman, Operating Committee (GCS)

Enclosures

FLKnouse/gla
7-11-57
cc to: Admr.'s Reading File
Operating Committee
Code 700, Mr. Knouse
THKiilsgaard, Rm. 5224

APPROVED:

O. M. Bishop (OMB)
Member, Bureau of Mines

Thor H. Kiilsgaard (THK)
Member, Geological Survey

P.S. Since the Applicant furnished only three sets of drill logs, one set is enclosed, and one set was sent to Region III with the application.

8623

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 11 1957

IN REPLY REFER TO:

DATE	INITIALS	CODE
7/11	C	220
		700

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

Memorandum

July 11, 1957

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

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

Subject: Review of application, DMEA 4773, Sneed, Medart, and Andrews, Perdue claims, White Canyon district, San Juan County, Utah, (uranium).

The applicant proposes to explore for uranium ore deposits on a group of 17 contiguous mining claims. The claims are in Blue Canyon which is part of the general White Canyon region.

The proposed work would consist of a total of 73 drill holes, to be drilled in two stages. Total cost of the proposed project would be $29,214.

Some 70 holes have already been drilled on the property. The applicant states 18 of the holes were mineralized. Examination of the drill-hole logs in the application shows that only one hole (no. 42) may have penetrated ore.

The applicant's property is located adjacent to DMEA 4679, Balboa Mining and Development Company. DMEA 4679 was examined in the field; and the Field Team has recommended denial of the application. Reasons for denial are that the property is located within an area of unfavorable Shinarump sediments; previous drilling was unsuccessful; Shinarump channel scours in the vicinity are shallow; and there are no known ore-bearing channels in the vicinity that could be projected into the property.

It is my opinion that the same bad features of DMEA 4679 apply to the present application. For that reason it does not seem that DMEA expenditures on the property would be desirable at this time. I recommend, however, that the Field Team be asked for their appraisal of the applicant's property.

W. P. Williams

W. P. Williams

OFFICIAL FILE COPY
DMEA
RECEIVED JUL 5 1957

DATE	INITIALS	CODE
7-5	C	220
7-5	Knowe	700

(DMEA)
Department of the Interior
Bureau of Mines
Washington 25, D. C.

Date July 3, 1957

DMEA Docket No. 4773
DMEA Contract No.
Commodity Uranium
Name of applicant Sneed, Medart and Andrews
Name of property
Location of property Dallas County, Texas
Estimated cost of project $29,214.25

Memorandum

To: Ernest Williams Ellis, DMEA Member ✓
Uranium Commodity Committee

From: James Paone, Bureau of Mines Member JP
Uranium Commodity Committee

Subject: Review of Application
(Application, Field Team Report, etc.)

1. Date of subject document: 7/1/57. 2. Date received by reviewer: 7/2/57

3. Other reports on this property known to reviewer: Yes ☐ No ☐

4. Other reports on nearby properties known to reviewer: Yes ☐ No ☐

5. Information available on past production: Yes ☐ No ☐

6. Other pertinent factors known to reviewer: Yes ☐ No ☐

7. Explain items marked yes above:

8. Factors needing special consideration:
- a. Location ☐
- b. Ownership ☐
- c. Evidence of mineralization ☐
- d. Geology ☐
- e. Proposed exploration method ☐
- f. Alternate exploration method ☐
- g. Costs ☒
- h. _____ ☐

9. Action advised:
- a. Obtain information from applicant ☐
- b. Refer to Field Team ☒
- c. Denial ☐
- d. Agree with Field Team ☐
  - i. Consult with Mr. _____ at _____ AEC office.
- e. Disagree with Field Team ☐
- f. Suggest alternate plan ☐
- g. Request another examination ☐
- h. Approval ☐

10. Remarks: (Use back of page if necessary)

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

July 2, 1957

Sneed, Medart and Andrews
P. O. Box 501
Grand Prairie, Texas

Subject: DMEA-4773

Gentlemen:

Your application for exploration assistance, dated June 17, 1957 submitted to our office at Washington, D. C. has been assigned Docket Number DMEA-4773 and referred to the Rare & Miscellaneous Division in the Washington office. Kindly identify all future correspondence relating to your application by this Docket Number.

Sincerely yours,

Allen S. Dakan, Director
Operations Control and
Statistics Division

Copy to: Region III

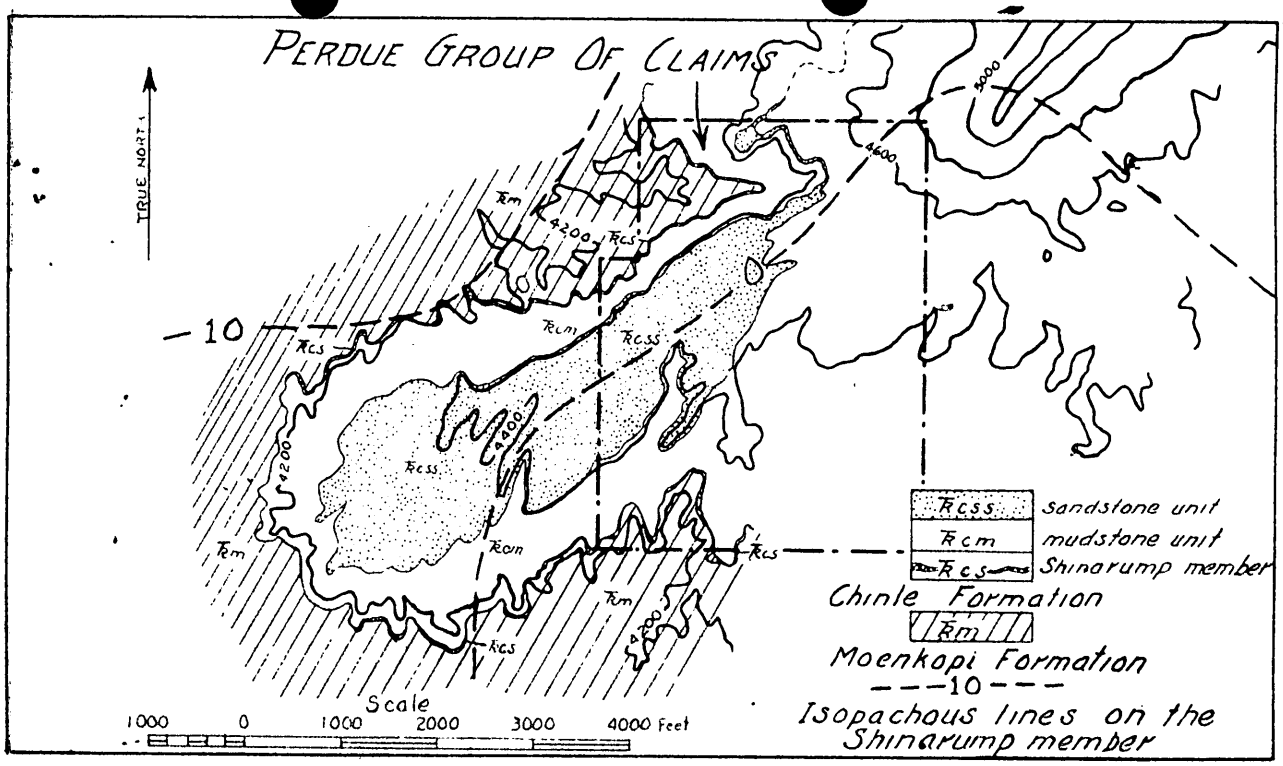


Fig. 2a. Geologic index map of Perdue claim area.

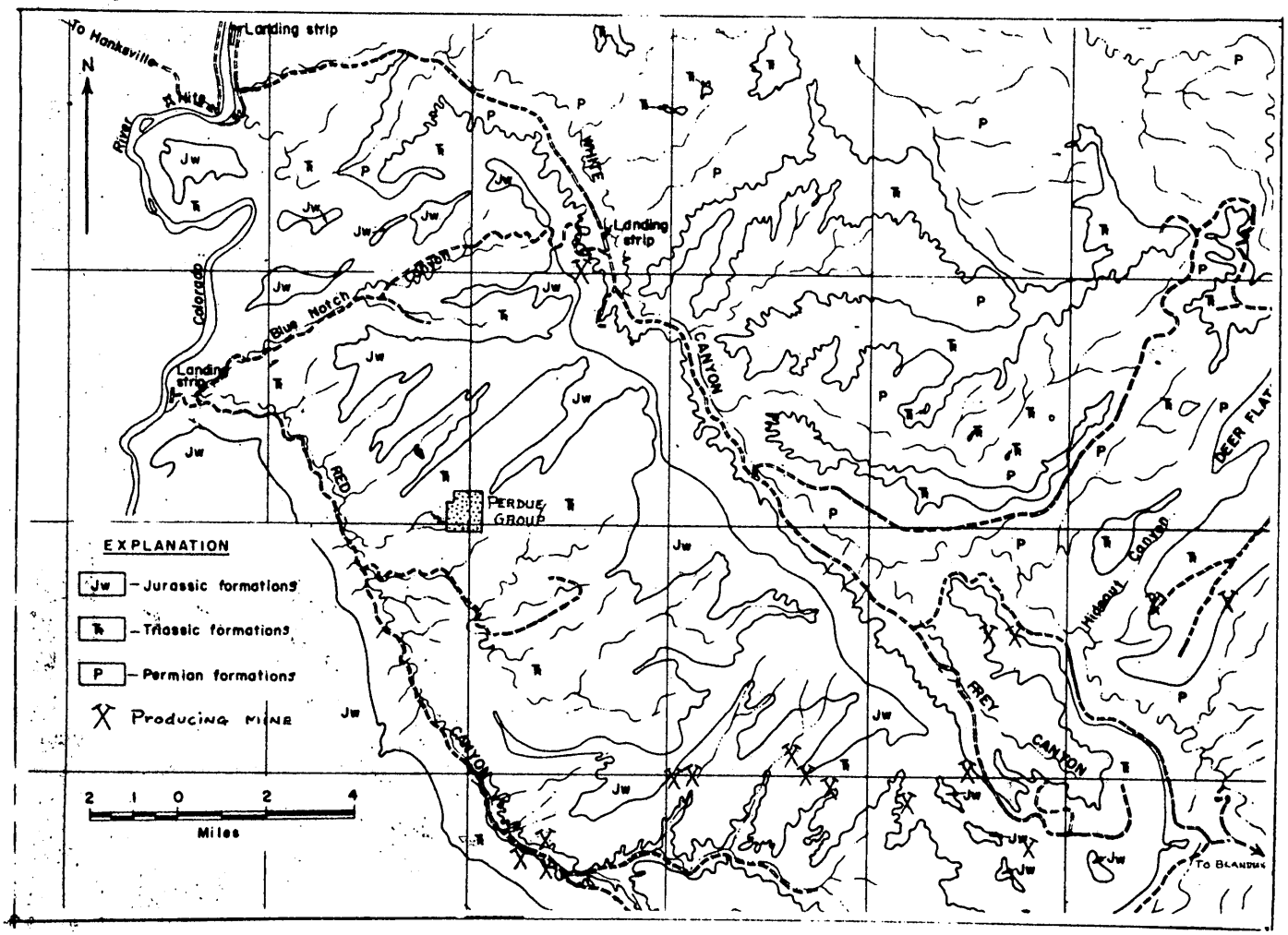
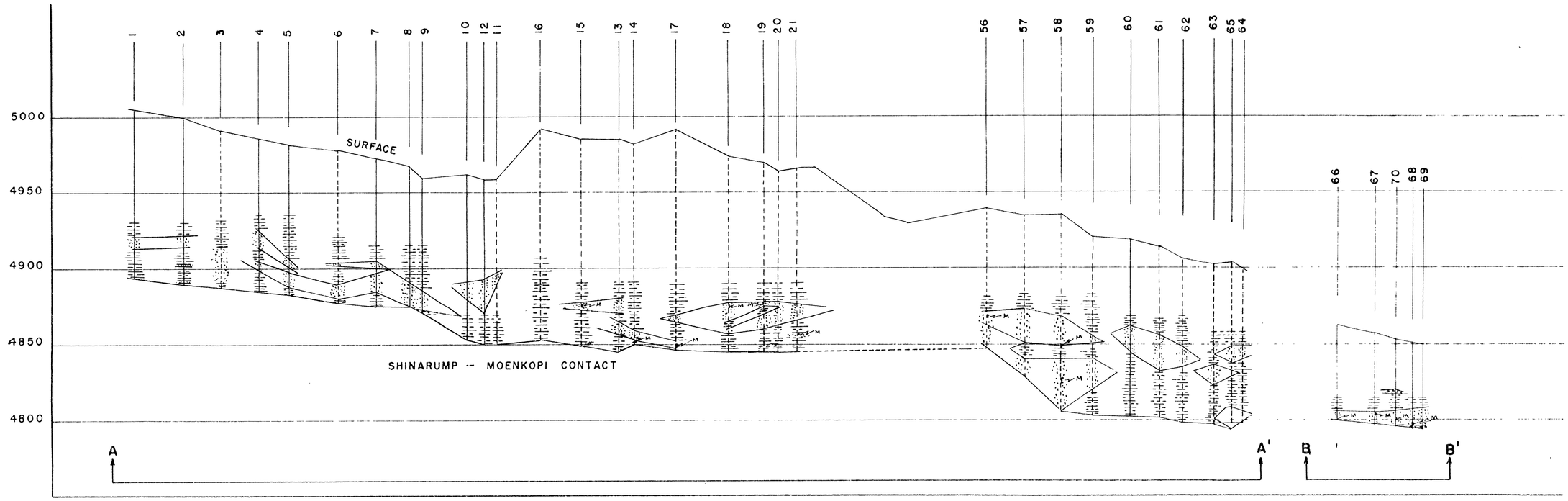
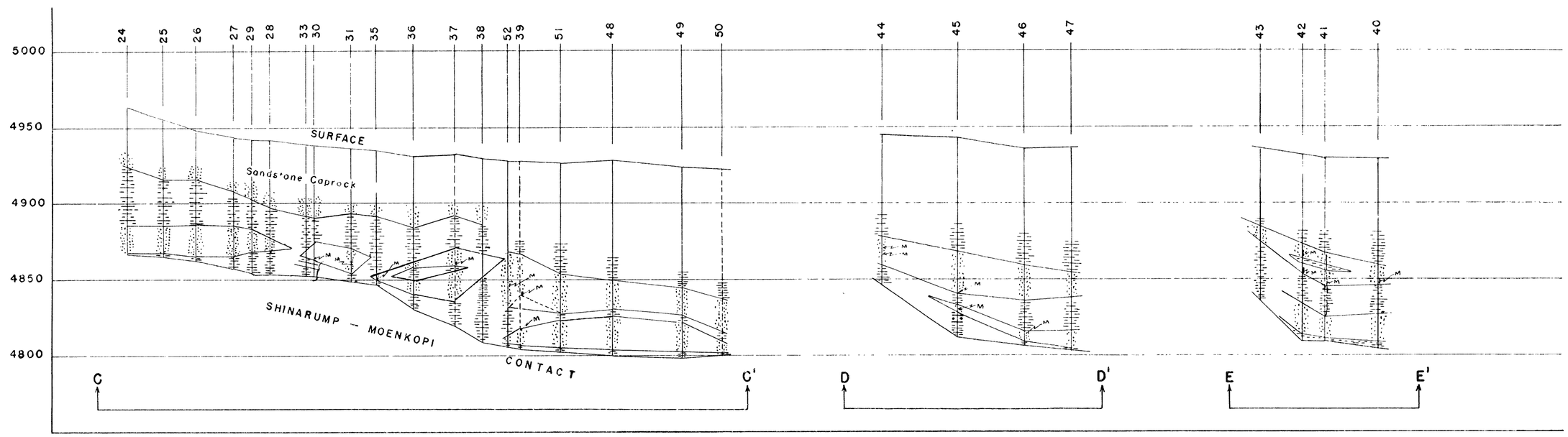


Fig. 2b. Geologic index map of the White Canyon mining district. After maps compiled by the A.E.C.





LEGEND & NOTES

SS Sandstone

MS Mudstones and Shales (varigated)

Mineralized Section of Hole

SNEED-MEDART-ANDREWS

CROSS SECTIONS OF DRILL HOLES ON

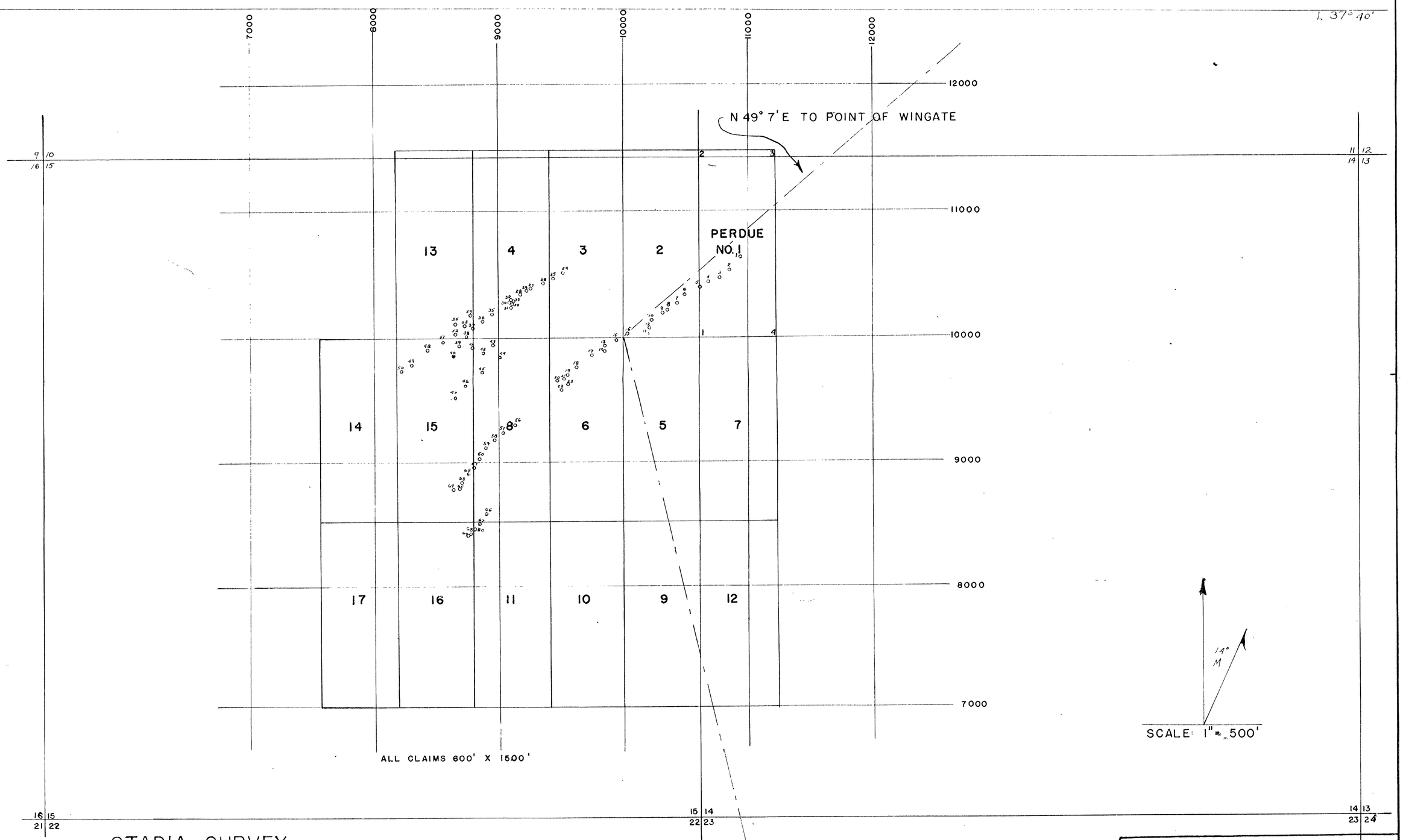
THE PERDUE CLAIMS

BLUE CANYON, SAN JUAN CO., UTAH

HORIZONTAL SCALE 1"=200' VERTICAL SCALE 1"=50'

Prepared by- E.E.LEWIS & ASSOCIATES

ENG:	Date- Feb. 15, 1957
Traced- FEW	SMA-103
Scale- See Above	



UNSURVEYED STADIA SURVEY PROJECTED
PERDUE GROUP OF 17 CLAIMS OWNED BY
J.W. SNEED - O.C. MEDART - M.C. ANDREWS, JR.

BLUE CANYON - WHITE CANYON MINING DISTRICT
SAN JUAN COUNTY, UTAH

AUGUST 2, 1955

CLAIMS 13,14,15,16,17 ADDED 8 - 26 - 55

← S 13° 30' 45" E TO CHOCOLATE DROP

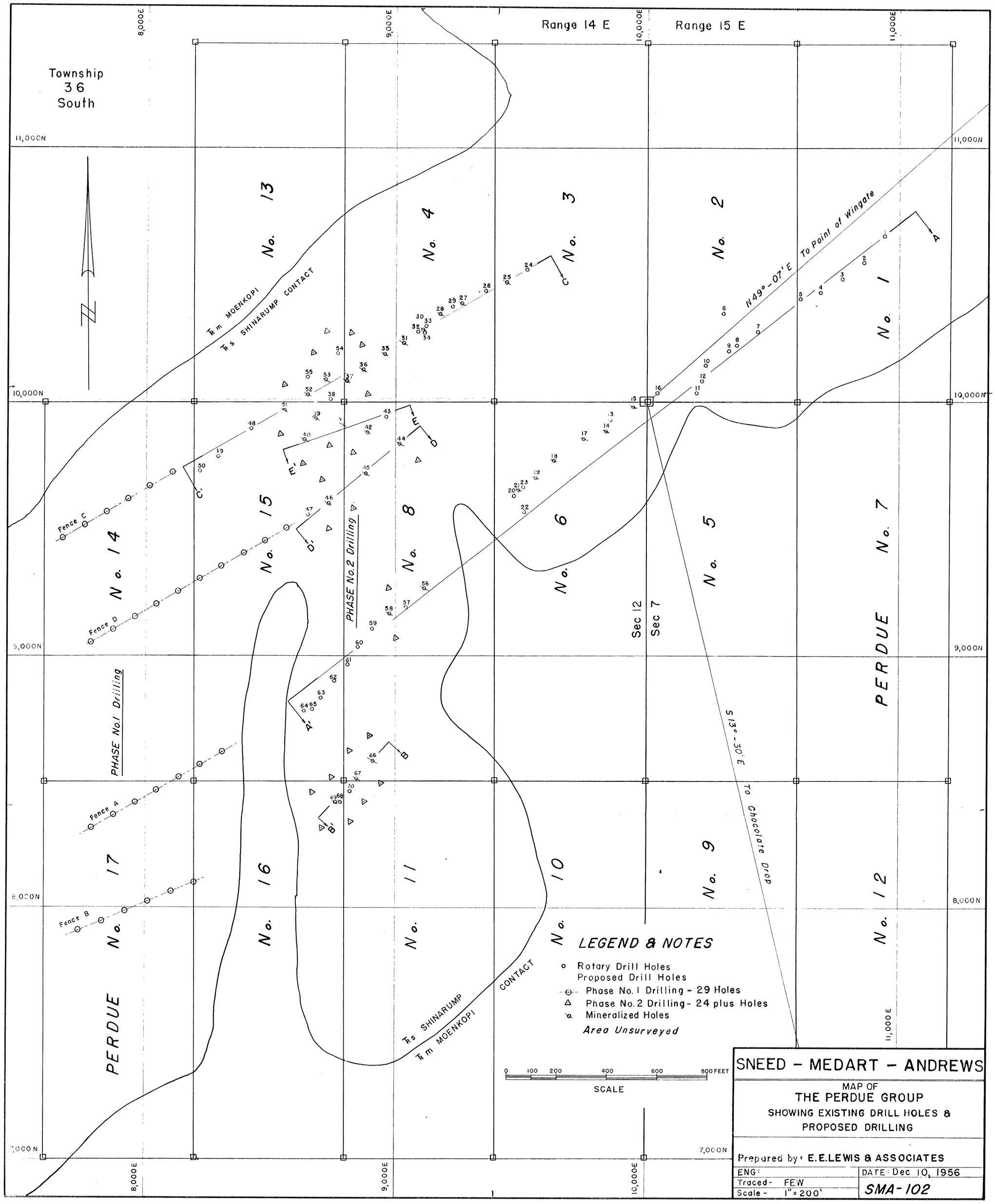
LAMB SURVEYING SERVICE
BLANDING, UTAH PH. 37 R7

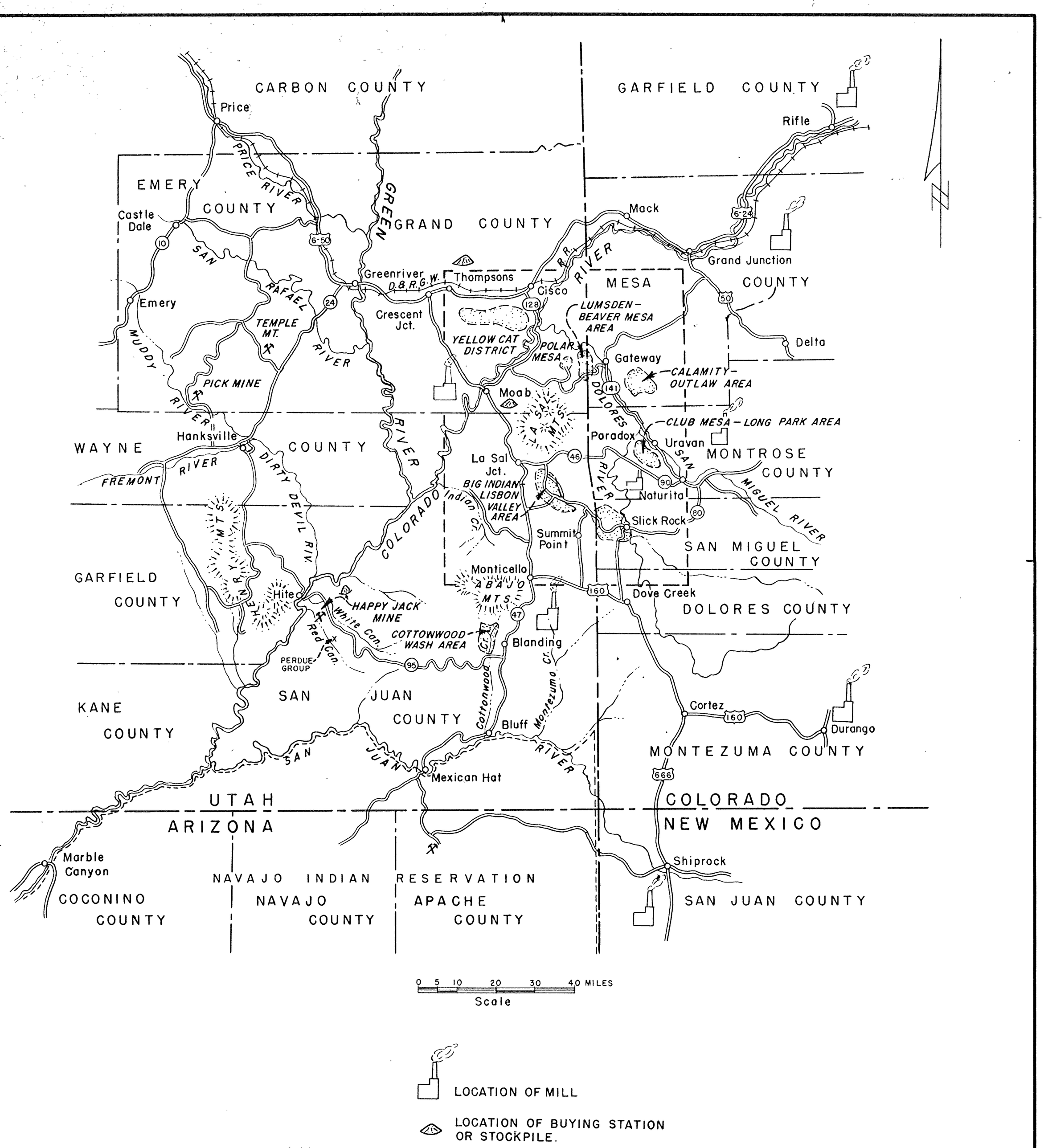
Dr. Clarence A. Lamb
REG. LIC. LAND SURVEYOR NO. 1706 UTAH

SMEED - MEDART - ANDREWS

MAP OF
THE PERDUE GROUP
CLAIM SURVEY by L.AMB
DRILLING by WOOD & WARD

ENG:	DATE:
TRACED	SMA-104
SCALE 1" = 500'	


Township 36 South
Range 14 E
Range 15 E
8,000E
9,000E
10,000E
11,000E
11,000N
10,000N
9,000N
8,000N
7,000N
N
No. 13
No. 4
No. 3
No. 2
No. 1
No. 14
No. 15
No. 8
No. 6
No. 5
No. 7
No. 17
No. 16
No. 11
No. 10
No. 9
No. 12
PERDUE
PERDUE
Sec 12
Sec 7
Tm MOENKOPI
Ts SHINARUMP CONTACT
N 49° - 07' E To Point of Wingate
S 13° - 30' E To Chocolate Drop
PHASE No.2 Drilling
PHASE No.1 Drilling
Fence C
Fence D
Fence A
Fence B
Ts SHINARUMP
Tm MOENKOPI
CONTACT
LEGEND & NOTES
Rotary Drill Holes
Proposed Drill Holes
Phase No. 1 Drilling - 29 Holes
Phase No. 2 Drilling - 24 plus Holes
Mineralized Holes
Area Unsurveyed
0 100 200 400 600 800 FEET
SCALE
SNEED - MEDART - ANDREWS
MAP OF
THE PERDUE GROUP
SHOWING EXISTING DRILL HOLES &
PROPOSED DRILLING
Prepared by: E.E.LEWIS & ASSOCIATES
ENG:
Traced- FEW
Scale- 1" = 200'
DATE: Dec 10, 1956
SMA-102



LOCATION MAP
PART OF COLORADO PLATEAU
MINING AREA
UTAH, COLORADO, ARIZONA
AND NEW MEXICO

SMA-101

hkt