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 30 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. 3880
Metal or Mineral Uranium
Date Received 6-30-55
Estimated Cost $39,994.25
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: Calumet & Hecla, Inc., a Michigan corporation
122 South Michigan Avenue
Chicago 3, Illinois
See attached list of officers.

(*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 schedule.

(*b*) State any mine name by which the property is known. None.

(*c*) State your interest in the land, whether owner, lessee, purchaser under contract, or otherwise Exploration permits with right to lease, and leases.

(*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. See attached statement.

(*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.

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.

(*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 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 30 days and be completed within seven 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.

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 January 29, 195[illegible]

Calumet & Hecla, Inc.
(Applicant)

By E R Lovell
PRESIDENT

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

Calumet & Hecla, Inc.
122 South Michigan Avenue
Chicago 3, Illinois

1.(C) Titles, names and addresses of officers:

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Name	Title	Address
E. R. Levell	President	122 South Michigan Avenue Chicago 3, Illinois
H. Y. Bassett	Vice President, Operations	122 South Michigan Avenue Chicago 3, Illinois
C. C. Jung	Vice President, Finance and Treasurer	122 South Michigan Avenue Chicago 3, Illinois
A. E. Petermann	Vice President and General Counsel, and Secretary	122 South Michigan Avenue Chicago 3, Illinois
W. W. Lynch	Vice President, Metal Sales and Procurement	60 East 42nd Street New York 17, New York
D. W. Blend	Vice President and General Manager, Wolverine Tube Division	1411 Central Avenue Detroit 9, Michigan
A. S. Kromer	Vice President and General Manager, Calumet Division	1 Calumet Avenue Calumet, Michigan
F. J. Gibbons	Controller	122 South Michigan Avenue Chicago 3, Illinois

Calumet & Hecla, Inc.
122 South Michigan Avenue
Chicago 3, Illinois

3. Applicant's Property Rights.

(a) Legal description. The following described lands in Valencia, Bernalillo and Sandoval Counties, New Mexico.

Tribal land - Canoncito Band of the Navajo Tribe.

Township Nine North, Range Three West:

Sec. 3, NW1/4, (that portion on top of Bell Rock Mesa)

Sec. 4, SW1/4, (that portion on top of Bell Rock Mesa)

Sec. 5, (that portion on top of Bell Rock Mesa)

Township Ten North, Range Three West:

Sec. 3, S1/2

Sec. 4, (that portion east of Laguna boundary)

Sec. 5, (that portion east of Laguna boundary)

Sec. 8, (that portion east of Laguna boundary)

Sec. 9, (that portion east of Laguna boundary)

Sec. 10, W1/2, NE1/4 NE1/4

Sec. 15, W1/2, W1/2E1/2, E1/2 SE1/4, SE1/4 NE1/4

Sec. 17, (that portion east of Laguna boundary)

Sec. 18, SE1/4

Sec. 19, NE1/4

Sec. 20, All

Sec. 21, All

Sec. 27, All

Sec. 28, SE1/4

Sec. 33, All

Sec. 34, W1/2

Township Eleven North, Range Three West:

Sec. 3, (that portion within Canoncito Navajo Area)

Sec. 5, (that portion within Canoncito Navajo Area)

Sec. 8, (that portion within Canoncito Navajo Area, except Indian Trust Allotments within E 1/2 NE 1/4 and NE1/4 SE1/4)

Sec. 9, All

Sec. 10, E1/2 W1/2, SW1/4 SW1/4, and that portion of E1/2 within Canoncito Navajo Area.

Sec. 11, (that portion within Canoncito Navajo Area)

Sec. 14, N1/2, NW1/4 SW1/4, SW1/4 SW1/4, SW1/4 SE1/4

Sec. 15, All

Sec. 17, (that portion within Canoncito Navajo Area)

Sec. 20, W1/2 (that portion within Canoncito Navajo Area)

Sec. 21, All

Sec. 22, All

Sec. 23, All

Sec. 29, (that portion within Canoncito Navajo Area)

Sec. 30, (that portion within Canoncito Navajo Area)

Sec. 31, (that portion within Canoncito Navajo Area)

Township Twelve North, Range Three West:

Sec. 27, (that portion within Canoncito Navajo Area)

Sec. 28, (that portion within Canoncito Navajo Area)

Sec. 33, All

Sec. 34, (that portion within Canoncito Navajo Area)

Alletted lands in and around Canoncito Permit:

1.	Nah-dice Mahagano	T 9 N, R 3 W: Lots 3, 4, and S1/2 NW1/4, Sec. 4
2.	Hasha-da-ya Mehagano	T 9 N, R 3 W: Lots 1, 2, and S1/2 NE1/4, Sec. 6
3.	Jose Mehegano	T 9 N, R 3 W: SE1/4, Sec. 6
4.	Nicholas Zacatero	T 10 N, R 3 W: W1/2 E1/2, Sec. 10
5.	Nah-ch-des-bah Chavis	T 10 N, R 3 W: NW1/4, Sec. 22
6.	Alth-chee-ha-bah Chavis	T 10 N, R 3 W: NE1/4, Sec. 22
7.	Nah-glee-a-ha-ba Chavis	T 10 N, R 3 W: SW1/4, Sec. 22
8.	Antonio Jose Chavis (now mining lease)	T 10 N, R 3 W: SE1/4, Sec. 22
9.	Heirs of Francisco Be-esdan	T 10 N, R 3 W: NW1/4, Sec. 26
10.	Teodoro Mexicano	T 11 N, R 3 W: NE1/4, Sec. 20
11.	Yazzie Abeita	T 11 N, R 3 W: SW1/4, Sec. 28
12.	Gle-ha-pah Abeyta	T 11 N, R 3 W: SE1/4, Sec. 28
13.	Alfred Abeyta	T 11 N, R 3 W: NW1/4, Sec. 28
14.	To-Nax-bah Abeyta	T 11 N, R 3 W: NE1/4, Sec. 28
15.	Heirs of Be-chis-ne-pah	T 11 N, R 3 W: SE1/4, Sec. 20
16.	Heirs of Tom Manning	T 9 N, R 3 W: Lots 1, 2, and S1/2 NE1/4, Sec. 4

Calumet & Hecla, Inc.
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3 (d) Attached hereto are copies of the following:

Mineral Prospecting Permit dated December 2, 1953, approved March 8, 1954 running from the Canoncito Band of the Navajo Tribe to John Lynes and Samuel C. Johnson

Amendment to Mineral Prospecting Permit dated April 19, 1954, approved June 16, 1954 running from the Canoncito Band of the Navajo Tribe to Canoncito Uranium Corporation

Assignment of Mineral Prospecting Permit executed November 19, 1954, accepted December 1, 1954 and approved January 28, 1955 running from Canoncito Uranium Corporation to Calumet & Hecla, Inc.

Mineral Prospecting Permit dated August 10, 1954, approved October 13, 1954 running from Nah-dico Mahagano to Canoncito Uranium Corporation. Allotted lands listed as numbers 2 to 7 inclusive and 9 to 14 inclusive are held under identical Permits. Allotted lands listed as numbers 15 and 16, except for being dated October 20, 1954 and approved November 19, 1954, are also held under identical Permits.

Assignment of Mineral Prospecting Permits on Allotted Indian Lands executed November 19, 1954, accepted December 1, 1954, approved January 23, 1955 running from Canoncito Uranium Corporation to Calumet & Hecla, Inc.

Lease dated March 1, 1955, approved March 21, 1955 running from Antonio Jose Chavis and Salina Chavez to Calumet & Hecla, Inc.

Letter dated May 31, 1955 from Mr. Guy C. Williams, General Superintendent, Office of Indian Affairs, U. S. Department of the Interior, to Mr. A. E. Petermann, Vice President and General Counsel, Calumet & Hecla, Inc., evidencing renewal of the Mineral Prospecting Permit dated March 8, 1954 as amended April 19, 1954.

Calumet & Hecla, Inc.
122 South Michigan Avenue
Chicago 3, Illinois

4. Physical Description

a. There has been only one mining operation to date on the lands covered by this application and this operation is of very minor importance in the general exploration program at Canoncito. It is located in the SE1/4, Sec. 22, T 10 N, R 3 W, on the allotment of Antonio Jose Chaves, and is referred to as the Chavez Mine. Total shipments to date have been 156.84 tons averaging .21% U^3O^8. It is estimated that 40 tons will be shipped in June and that there are no reserves.

The mine is still undergoing development and a small amount of exploratory drifting is going on as well. The ore occurs in small "pod-like" masses closely resembling "rolls" in the Salt Wash sandstone. A "pod" once found is quickly mined out and then more lean to dead drifting is required to find another.

With the exception of an air compressor, the mine is being operated strictly on a pick-shovel-wheelbarrow basis by Indians in our employ.

Subject to the royalties of the owner and the overriding royalties of the Canoncito Uranium Corporation, the applicant is sole holder of the mining lease on this ground. All workings are accessible for examination.

Past Exploration Work. The bulk of the exploratory work to date has been by air rotary drilling in the northern portion of the Permit. The object of this drilling was to test the Jackpile sand and determine the extent of its thicker portion. 134 holes totaling about 28,161 feet were spread over an area of ten square miles in this part of the mesa.

Some drilling was done to test three different prospects in the Recapture shale. These were located in SE1/4, Sec. 22, T 10 N, R 3 W; NE1/4, Sec. 27, T 10 N, R 3 W; and in NW1/4, Sec. 34, T 10 N, R 3 W. Only the prospect in Sec. 22 has emerged as of some importance and deserving of additional exploratory drilling. (See map No. 2.) Total of 41 holes were drilled, totaling about 2,000 feet in the Recapture tests.

At the extreme south end of our holdings, a thick sand body occurs with characteristics very similar to Jackpile sand and in the same position stratigraphically. This outcrop is located near the W1/4 corner, Sec. 5, T 9 N, R 3 W. As there were known to be a few airborne scintillation anomalies nearby, it was decided to test this sand body by drilling. Nineteen holes totaling 3,328 feet were drilled and showed only mineralization of mild interest in one hole. (See map No. 9.) The sand body being tested seemed to pinch out rapidly north, east and west. Southward it has been removed by erosion.

Other exploration of the Permit has been by flying scintillation survey, extensive foot prospecting, and trenching and test pitting of anomalies found by either of the above prospecting methods.

Past Production: 156.84 tons .21% U_3O_8

Ore Reserves: 40 tons .20% U_3O_8

General Geology of the Mesa Gigante Area: The area under consideration lies in a belt up to four miles wide (east-west) and fifteen miles long (north-south) along the east edge of Mesa Gigante. It is located about 25 miles due west of Albuquerque. The north-south belt comprising the Canoncito Permit is bisected diagonally by the Valencia-Bernalillo County line.

About two and one-half sections in the extreme north end of the Permit are located in Sandoval County. (See location maps attached, Nos. 10 and 11.)

Rocks exposed in the Mesa Gigante area range in age from Jurassic (Todilto) to Cretaceous (Mancos). The rim rock of the mesa is at the horizon generally known as Dakota but is believed to be the lower unit of the Tres Hermanos member of the Mancos formation. Two units of the Tres Hermanos member are commonly p-esent in the area and the third unit is present in only one locality on the Permit (NE1/4, Sec. 34, T 11 N, R 3 W). The middle unit of the Tres Hermanos member commonly forms buttes and smaller mesas on Mesa Gigante requiring the use of very devious routes when traversing the top of the mesa. Drilling depths from the lowermost bench (lower Tres Hermanos) to the top of the Morrison formation average around 100 feet, while the depth to the Morrison from on top of the middle unit of the Tres Hermanos is approximately 200 feet.

The Morrison formation (base assumed to be top of Bluff sandstone) varies considerably in thickness over the fifteen-mile length of the Permit. In general, the thickness may be said to be proportional to the sand content. At the extreme southern end of Mesa Gigante, the Morrison is about 180 feet thick. Near the middle of the Permit Area, in Sec. 34, T 11 N, R 3 W, the Morrison is 340 feet thick and there is no Jackpile sand here. In Sec. 3, T 11 N, R 3 W, where the Jackpile sand attains a maximum thickness, the base of the Morrison is not exposed but a reasonable estimate for the Morrison thickness here would be about 450 feet.

The Morrison sands are everywhere lenticular and a sand of considerable thickness may disappear in a few hundred feet laterally. There are horizons within the Morrison where these lenticular sands are most common. The most important sand horizons to be concerned with here are: (1) about 20 feet above the lower contact and just above a zone of persistent gray-maroon mudstones, and (2) at the top of the Morrison section (Jackpile sand, also called Westwater by many workers). The upper sand is the most important locally from an economic point of view, as it is the host rock for the great Jackpile-North Jackpile ore bodies, also the Windswept, St. Anthony and also probably the Poison Canyon and related deposits north of Grants. The "Jackpile sand" attains by far the greatest thickness of any Morrison sand in this locality, reaching as much as 135 feet in Sec. 3, T 11 N, R 3 W. Despite this very considerable local thickness, drilling has shown this to be a lens-like sand body, pinching out one mile to the north, two and one-half miles to the south, and three miles to the west of Sec. 3. The former extent eastward of the sand body is not known due to its termination by erosion at the east edge of Mesa Gigante. (See Isopach map of Jackpile sand, No. 12.) Since the Poison Canyon and Jackpile ore bodies are associated with similar marked thickening in the sand horizon, the object of the bulk of the proposed drilling is to more exhaustively test the thickest parts of this sand lens in the S1/2 of S1/2, Sec. 34, Sec. 3 and most of Sec. 10; and the E1/2 of Sec. 9, all in T 11 N, R 3 W.

The lower sand horizon (20 feet above the Bluff) has proved to be most interesting in the southern half of the Permit Area. Nearly all of the better anomalies found by airborne scintillation surveys and ground prospecting have been at this horizon. The sand seldom exceeds five feet in thickness but in the center of SE1/4 of Sec. 22, T 10 N, R 3 W, it is the host rock of some small but high grade "rolls" rather similar to the Salt Wash ore bodies. It is believed that there may be several of these small deposits in the vicinity and we propose to drill about 3,000 feet to test this hypothesis (see map No. 2). This drilling will test the production potential of a horizon new to the Grants-Laguna district.

Should either drilling project have favorable results, a very wide area is held by Calumet & Hecla from which substantial production could be made which would ensure repayment of the DMEA loan.

No discussion of pre-Morrison stratigraphy will be made here because nothing of economic significance has been noted in these beds.

Accessibility of Project. The accessibility of the project is relatively good. Twenty-five miles west of Albuquerque on U.S. 66 to the Canoncito turn-off, then eight miles north to the Canoncito Day School where Calumet & Hecla maintains a small field office. From the school, roads lead north and south

along the foot of the mesa. About two miles south and four miles north of the school are roads that lead to the top of the mesa. All parts of the project are accessible by jeep or pick-up truck.

Haulage distance to Anaconda's mill at Bluewater is 69 miles from the mine in Sec. 22, T 10 N, R 3 W. This may be increased to as much as 80 or 85 miles from the northern end of the property.

Availability of Manpower, Materials, etc.

There is a ready supply of manpower on the Canoncito (Navajo) Indian Reservation. In fact, we are obliged to use Indians wherever possible.

Material, supplies and equipment are available in Albuquerque.

Water is exceedingly scarce. Drinking water would have to be hauled in from Albuquerque in all probability. If the operation justified it, a well could be drilled that would probably yield a few gallons per minute.

Electric power would probably be best supplied by a diesel generating plant.

Calumet & Hecla, Inc.
122 South Michigan Avenue
Chicago 3, Illinois

5. **The Exploration Project**

b. **Proposed drilling on Canoncito Permit**

T 12 N, R 3 W, Sec. 34 S1/2 of S1/2
T 11 N, R 3 W, Sec. 3 E1/2 of Sec. 9 and S1/2 of Sec. 10

All possible holes will be drilled from the first bench of the Tres Hermanos (Mancos) sandstone and will average about 225 feet in depth. 141 holes are called for in this location (31,725 feet @79¢, 60¢ per foot plus 19¢ per foot for supervision, etc. or $25,063.25).

About 15,600 feet additional drilling will be done from the second bench of the Tres Hermanos sandstone and will average 300 feet in depth. The cost will be $12,324.00 at 79¢ per foot (including supervision).

Only the thickest part of the Jackpile (Westwater) sand will be tested in the above drilling. Generally, the thickness will be in excess of 100 feet.

T 10 N, R 3 W, Sec. 22, SE1/4

About 65 holes averaging 50 feet in depth per hole are planned to virtually surround the operation at the Chavez Mine (refer to mine map attached, No. 2). These holes will follow the existing roads around the mine and will be spaced on ten foot centers. At least two high grade "pods" have been mined and it is thought very likely that others exist in the area.

The total footage will be 3,300 feet and the cost $2,607.00 (79¢ per foot includes supervision).

d. **Operating Experience**

Calumet & Hecla, Inc. has been mining since 1866. Supervising the exploration are R. R. Reynolds, Geologist, with 15 years of professional experience, 10 in exploration; and R. W. Kliebenstein, Engineer, with 16 years of professional experience, eight years of which were directly concerned with exploration.

Calumet & Hecla, Inc.
122 South Michigan Avenue
Chicago 3, Illinois

6. **Estimate of Costs**

a. **Contracts**

Charles E. Farris, Truth or Consequences, New Mexico

Drilling - - - -air rotary, 60¢ per foot, sampled
Bulldozing - - -$10.00 per hour

b. **Labor Supervision, Consultants**

		$ per Mo.
R. W. Kliebenstein, engineering	50% time	$ 275.00
R. R. Reynolds, geologist	50% time	300.00
Dillon Platero, asst. surveyor hole logger	100% time	300.00
Arlene Kliebenstein, bookkeeper secretarial	75% time	90.00
Assaying		35.00
Per month		$1,000.00
Total project (6 months)		$6,000.00

c. **Operating Materials and Supplies** 000.00

d. **Operating Equipment** 000.00

e. **Rehabilitation and Repairs**

To transport and miscellaneous equipment such as Geiger counters, surveying equipment, etc., for six months 200.00

f, g, h **Installations, Miscellaneous, Contingencies** 1,300.00

$7,500.00

Calumet & Hecla, Inc.
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Chicago 3, Illinois

7. **Estimate of Costs**

Contract drilling	$ 0.60
Supervision, etc.	0.19
Total cost per foot	0.79

North end - Jackpile sand exploration:

Lower bench - 141 holes @ 225 feet	25,063.25
Upper bench - 52 holes @ 300 feet	12,324.00

South end - Recapture exploration in Sec. 22

50 ft. depth - 66 holes or 3,300 feet	2,607.00
Total cost	$39,994.25

COPY

MINERAL PROSPECTING PERMIT

RECEIVED
JUN 30 1955

THIS AGREEMENT made and entered into this ~~2nd~~ day of ~~December~~, 19~~53~~ by and between the ~~GANONCITO BAND OF THE NAVAJO TRIBE~~, Party of the first part, hereinafter called Permittor, whose address is ~~Correo, New Mexico~~ and ~~John Lynes and Samuel C. Johnson~~ whose address is ~~P. O. Box 1396, Albuquerque, New Mexico~~, party of the second part, hereinafter called the Permittee.

In consideration of the sum of ~~Ten Thousand Five Hundred~~ Dollars ($~~10,500.~~) (~~to be paid at the time of delivery of the approved permit~~) the receipt of which is hereby acknowledged and the covenants, stipulations and conditions hereinafter contained, it is agreed:

J.L.
S.C.J.

A. Permittor hereby grants the Permittee the exclusive right for a period of one year from the date of approval of this permit by the Secretary of the Interior or his authorized representative to prospect for uranium and minerals associated therewith upon the following described lands of Permittor, subject to valid existing rights, consisting of approximately ~~14,990~~ acres more or less:

Township Nine North, Range Three West:
Sec. 3, NW¼, (that portion on top of Bell Rock Mesa)
Sec. 4, SW¼, (that portion on top of Bell Rock Mesa)
Sec. 5, (that portion on top of Bell Rock Mesa)

(Continued on page 1-A)

Township Ten North, Range Three West:

Sec. 3, S½
Sec. 4, (that portion east of Laguna boundary)
Sec. 5, (that portion east of Laguna boundary)
Sec. 8, (that portion east of Laguna boundary)
Sec. 9, (that portion east of Laguna boundary)
Sec. 10, W½, NE¼NE¼
Sec. 15, W½, W½E½, E½SE¼, SE¼NE¼
Sec. 17, (that portion east of Laguna boundary)
Sec. 18, SE¼
Sec. 19, NE¼
Sec. 20, All
Sec. 21, All
Sec. 27, All
Sec. 28, SE¼
Sec. 33, All
Sec. 34, W½

Township Eleven North, Range Three West:

Sec. 3, (that portion within Canoncito Navajo Area)
Sec. 5, (that portion within Canoncito Navajo Area)
Sec. 8, (that portion within Canoncito Navajo Area, except Indian Trust Allotments within E NE¼ and NE¼SE¼)
Sec. 9, All
Sec. 10, E½W½, SW¼SW¼, and that portion of E½ within Canoncito Navajo Area.
Sec. 11, (that portion within Canoncito Navajo Area)
Sec. 14, N½, NW¼SW¼, SW¼SW¼, SW¼SE¼
Sec. 15, All
Sec. 17, (that portion within Canoncito Navajo Area)
Sec. 20, W½ (that portion within Canoncito Navajo Area)
Sec. 21, All
Sec. 22, All
Sec. 23, All
Sec. 29, (that portion within Canoncito Navajo Area)
Sec. 30, (that portion within Canoncito Navajo Area)
Sec. 31, (that portion within Canoncito Navajo Area)

Township Twelve North, Range Three West:

Sec. 27, (that portion within Canoncito Navajo Area)
Sec. 28, (that portion within Canoncito Navajo Area)
Sec. 33, All
Sec. 34, (that portion within Canoncito Navajo Area)

which lands are designated on the map attached hereto marked Exhibit "A" and made a part hereof.

B. Said permit is granted upon the following express terms, covenants, and conditions:

1. The Permittee agrees to expend on actual prospecting and exploration work not less than the sum of Three thousand three hundred thirty-three and ~~34/100~~ Dollars ($3333.34) per month for each of the first three (3) months of this permit and if Permittee fails to do so it shall be liable to Permittor for liquidated damages in the amount not so spent. At the end of said three months the Permittee may surrender this permit in writing. If the permit is not surrendered Permittee agrees to continue the prospecting and exploration work and to expend thereon a total of not less than Twenty Thousand Dollars ($ 20,000.) for actual prospecting and exploration work during the first year of the permit. If at the end of one year from the date of approval of the permit, or at the time of surrender or termination, if the permit is surrendered or terminated after the first three months but before the end of the first year, the Permittee shall not have expended $ 20,000.00 for said work, the Permittee agrees to pay to the Permittor through the Area Director as liquidated damages the difference between the sum expended and $ 20,000.00 said sum to be paid on surrender or termination of the permit.

2. At least thirty (30) days before the end of the first year from the effective date of this permit, the Permittee may give notice to the Permittor and Area Director that it desires to have said permit renewed for a one-year period, and upon the Permittee submitting to Permittor and the Area Director at the time of application for renewal evidence that the sum of $ 20,000.00 has been or will be expended on actual prospecting and exploration work during the first year, said permit shall be renewed for a one-year period upon payment to the Permittor through the Area Director of the same bonus as was bid for the first year (which sum shall be credited on rentals or royalties payable during the second year of the permit on any leases in effect during the second year) AND the performance of not less than the same amount of work as is required to be performed during the first year of the permit. If Permittee fails to spend said sum on actual prospecting and exploration work during the second year it shall be liable to Permittor for liquidated damages in the amount not so spent. No refund to Permittee shall be made of payments to the Permittor for renewal of this permit.

3. The Permittee may, subject to the provisions hereinbefore stated, surrender this permit in writing during the renewal period upon the performance of all of Permittee's obligations hereunder, upon the payment of $1.00 and upon a showing satisfactory to the Permittor and the Secretary of the Interior or his authorized representative that full provision

has been made for the conservation and protection of the property If this permit has been recorded, the Permittee shall file a recorded release with his application for termination of the permit.

4. Permittee shall begin actual prospecting and exploration work within thirty (30) days from the date of approval and receipt by Permittee of the completed instrument and shall diligently prosecute the same in accordance with approved methods unless prevented by strikes, acts of God, economic or other conditions over which Permittee has no control.

5. The Permittee shall have the privilege of constructing and maintaining at its own expense any additional roads or transportation facilities across Permittor's lands that are necessary in carrying on the actual prospecting and exploration work, PROVIDED that the location of such roads be approved in writing by **Chairman of Permittor** and the Area Director. No part of any such road or roads shall inure to the benefit of the public and the public shall obtain no rights thereon, but upon termination of this permit for any cause whatsoever or if at any time it shall become unnecessary for Permittee to use any such road for conducting the operations authorized under this permit or subsequent leases the right to use said road shall thereupon cease and all the rights shall revest in Permittor in accordance with law. The Permittee shall hold the

Permittor and the United States harmless and indemnify them against any and all loss or damage that might result from the construction or maintenance by Permittee of said roads in a negligent manner. Any installations made in connection with roads or transportation facilities by the Permittee may be removed by the Permittee.

6. Permittee shall have the right at its own expense to drill and equip water wells on said premises and agrees that at the termination of the permit by expiration of its term or otherwise all wells will be left intact and properly cased. Permittee shall have the right to remove all mechanical pumping equipment installed by it at any wells. If any of said wells shall produce water surplus to the needs of the Permittee, said water shall be available to the members of the Permittor.

7. Permittee shall have the right free of charge to install on the premises power and water lines which may be removed by the Permittee on termination of this permit.

8. Application for rights of way will be made by Permittee pursuant to the requirements of 25 C. F. R. 256.

9. Permittee shall comply with all proper laws and regulations of competent public authority with reference to such prospecting. Particularly, the Secretary of the Interior or his authorized representative who is qualified by law or regulation to obtain such information shall have access to all

information obtained by the Permittee in carrying out the exploration and prospecting work hereunder.

10. In the event Permittee discovers a deposit or deposits of ore where its examinations and tests convince it there is a possibility or probability of developing a commercial mine and desires to work and mine the same and desires a lease thereon, the Permittor and all other necessary agency or agencies will, upon notice from Permittee in writing by registered United States mail, postage prepaid, addressed to ~~Chairman of Permittor~~ _____ at ~~Correo, New Mexico~~ and to the Area Director, Bureau of Indian Affairs, Box 1346, Albuquerque, New Mexico, describing the particular lands desired, give and grant a mining lease on such lands under the terms and conditions provided for in the attached form of lease, which is identified as Exhibit "B" and which has been prepared as to royalty payments and terms and conditions specially for the purpose.

Leases shall only be granted for lands described by legal sub-divisions or fractions thereof or by survey description PROVIDED that areas of less than ten (10) acres may be included in a lease only if such area has been surveyed. Said parcels need not be contiguous. All leases shall be within the area covered by the permit at the time the application for lease is made. Such leases may be requested by Permittee on additional tracts from time to time during the effective period of this

permit. Permittee, however, shall include in request for leases only such acreage as in its judgment is necessary and desirable for the efficient and proper mining operations on the deposit or deposits concerned. All applications for leases must be submitte prior to the expiration or termination of the permit.

11. Prior to the approval of a lease in favor of Permittee no ores shall be removed except samples for examination or experimental purposes.

12. The maximum acreage that shall be taken under lease shall be in accordance with regulations of the Department of the Interior or such additional amount as may be authorized by any waiver under said regulations.

13. Before this permit shall become effective, Permittee shall furnish to the Area Director of the Albuquerque Area Office, Bureau of Indian Affairs, an acceptable surety bond in an amount equal to the guaranteed amount of expenditures for one year, as specified in clause B-1 on page 2 hereof.

14. This prospecting permit is exclusive to Permittee as it is recognized that much time and expenditure of substantial amounts of money and effort are necessary in order to properly and systematically prospect the properties, in which Permittee should be protected, if valuable deposits are found. No other permit or right shall be given to anyone else on any unsurrendered portion of the lands covered by this permit as to

the minerals covered hereby so long as this permit is in effect or on lands which may be covered by a lease or leases given pursuant hereto so long as such lease or leases are in force or effect.

15. The Permittee shall employ Indians, giving priority to the members of the Canoncito Navajo Band, in all positions for which they are qualified and available and shall pay the prevailing wage rates for similar services in the area. The Permittee shall do everything practicable to employ qualified Indians, giving priority to the members of the Canoncito Navajo Band, and their equipment in all hauling of materials under the permit and any leases taken and any work done thereunder, insofar as Permittee does not use its own equipment for that purpose. Permittee agrees to make special efforts to work Indians, giving priority to the members of the Canoncito Navajo Band, into skilled, technical, and other higher jobs in connection with the Permittee's operations under the permit and leases taken hereunder. However, it is recognized that exploratory and prospecting work requires the services of technically trained geologists, engineers, physicists and skilled workers and, to a large extent, mobile units and organizations.

16. The Permittee agrees that on termination of operations under this permit or leases taken thereunder it will make provisions for conservation and protection of the property and leave all of the areas on which it has worked in a condition that will not be hazardous to life or limb.

17. Permittee shall, and hereby agrees to indemnify,

protect, and save harmless said Permittor and the United States of America from and against the following specific claims, demands and damages (and none other) arising out of Permittee's negligence or actionable faults in connection with Permittee's work and operations, hereunder, to-wit:

(a) To property of third persons, including Navajo Indians.

(b) To third persons, including Navajo Indians, for injury or death.

(c) To the livestock of the Permittor and its members and to the permanent buildings and structures of the Permittor and its members situated on the property covered by this permit.

(d) Liens or lien claims on account of labor performed upon or material furnished to the property covered by this permit at the instance of the Permittee.

18. Permittee agrees to carry such insurance covering all persons working in or on said property for Permittee as will fully comply with the provisions of the statutes of the State of New Mexico, covering workmen's compensation and occupational disease, as are now in force or as they may hereafter be changed or amended. Further, Permittee agrees to comply with all of the terms and provisions of all applicable laws of the State of New Mexico and of the United States of America as now exist or as hereafter amended, pertaining to Social Security, Unemployment Compensation, wages, hours and conditions of labor, and to indemnify and hold Permittor and the United States harmless from payment of any damages occasioned by Permittee's failure to comply

with said laws. Permittee shall pay all taxes lawfully assessed against its property or operations.

19. The Permittor expressly reserves the right to use, lease, sell or otherwise dispose of the minerals not covered by this permit and the surface of the lands embraced within this permit under existing laws or laws hereafter enacted. Such disposition and use shall be subject at all times to the prior right of the Permittee herein to the use of so much of said surface as is necessary to carry on its prospecting and exploration work and to acquire leases under this permit.

20. When in the opinion of the Secretary of the Interior or his authorized representative there has been a violation of any of the terms and conditions of this permit, the Secretary or his authorized representative shall have the right at any time after thirty days notice to the Permittee, specifying the terms and conditions violated, and after a hearing if the Permittee shall so request within thirty days of receipt of notice, to declare this permit null and void.

21. Permittee shall not knowingly permit any nuisance to be maintained on the premises nor consent to any intoxicating liquor being sold or given away for any purpose on such premises and agrees not to use said premises for any purpose other than those authorized in this permit.

22. Permittee shall not discriminate against any employee or applicant for employment because of race, creed, color or national origin and shall require an identical provision to be included in all subcontracts hereunder.

23. The Permittee agrees not to assign this permit or any interest therein by an operating agreement or otherwise, nor to sublet any portion of the permitted premises, except with the approval of the Secretary of the Interior or his authorized representative and the Permittor.

24. No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this permit or to any benefit that may arise therefrom, but this provision shall not be considered to extend to this permit if made with a corporation for its general benefit.

IN WITNESS WHEREOF we have executed this permit on the date first abovementioned.

Witnesses to signature of Permittor:

/s/ Richard Platero

/s/ Lorencito Platero

Witnesses to signature of permittee

/s/ Hazel G. Carrick

address Albuquerque, N.M.

Dewey Dismuke

address Albuquerque, N.M.

March 8, 1954 Approved as to form:
William A. Brophy
Area Counsel

CANONCITO BAND OF THE NAVAJO TRIBE

(his mark)

by /s/ Desidero Platero
Chairman

/s/ John Lynes
John Lynes

/s/ Samuel C. Johnson
Samuel C. Johnson

APPROVED: MARCH 8, 1954

/s/ [illegible]
Acting Area Director
Albuquerque Area Office
Bureau of Indian Affairs
Department of the Interior

EXHIBIT "B"

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF INDIAN AFFAIRS

MINING LEASE - TRIBAL INDIAN LANDS
(For Uranium and other Minerals Associated Therewith)

THIS INDENTURE OF LEASE, made and entered into in quintuplicate this ____ day of _____, 195__ by and between Cannoncito Band of the Navajo Tribe _____, designated herein as "Lessor" and John Lynes and Samuel C. Johnson of P.O. Box 1396, Albuquerque, New Mexico ---------- ----------, herein designated as "Lessee", WITNESSETH:

1. That the Lessor, for and in consideration of $1.00 receipt whereof is hereby acknowledged, and of the royalties, covenants, stipulations and conditions hereinafter contained and hereby agreed to be paid and observed by the Lessee, doth hereby demise, grant and lease unto the said Lessee, the following described tract of land lying in _____ County, State of New Mexico _____, to-wit:

(insert description)

for the full term of ten years from the date of approval hereof and as long thereafter as minerals are produced in paying quantities, for the sole purpose of prospecting for and mining minerals, as follows: uranium and other minerals associated therewith, the lessee to occupy so much only of the surface of said land as may be reasonably necessary to carry on the work of prospecting for, mining, milling, storing and removing such minerals.

2. The term "Secretary" or "Secretary of the Interior as used herein shall refer to the Secretary of the Interior or his authorized representative.

The term "Area Director" as used herein shall refer to the Area Director or other official in charge of the Indian Agency having jurisdiction over the lands leased.

Wherever used in this document the word "ore" shall mean only the ore of uranium and other minerals associated therewith; and the words "ores mined and sold" or similar words shall be construed and understood to mean ores mined and removed from the demised premises for the purposes of milling, treatment, stockpiling or other disposition, and not that ores must be sold as much.

3. In consideration of the foregoing, the Lessee hereby agrees:

(a) ROYALTY. To pay, or cause to be paid, to the Lessor, said payments to be made through the Area Director, as royalties the sums of money as follows, to-wit:

On any ores mined and sold by Lessee from the demised property, Lessee agrees to pay to Lessor a percentage royalty of the mine value per dry ton as set forth in the following percentage royalty schedule:

PERCENTAGE ROYALTY SCHEDULE

Mine Value per Dry Ton	Royalty Percentage of Mine Value per Dry Ton
$ 0.01 to $10.00 inclusive	10%
10.01 to $20.00 "	11%
20.01 to $30.00 "	12%
30.01 to $40.00 "	13%
40.01 to $50.00 "	14%
50.01 to $60.00 "	15%
60.01 to $70.00 "	16%
70.01 to $80.00 "	17%
80.01 to $90.00 "	18%
90.01 to $100.00 "	19%
100.01 or more	20%

"MINE VALUE PER DRY TON", wherever used herein, is hereby defined as the dollar value per dry ton of crude ores at the mine as determined by the application to the valuable meta content of such ore of the price schedules for such ores established and currently in effect by the Atomic Energy Commission or other government authorized agencies before allowance for transportation and development. It is specifically understood that any **mine production bonuses shall be included** in the "mine value per dry ton". However, if the Government at any time hereafter does not establish or have in effect a price schedule for the purchase of such ores on a fixed or scheduled dollar value per dry ton of crude ores at the mine, or said ores contain salable minerals, some, or all, of which are disposed of to a custom treatment plant or smelter for the treatment and beneficiation of uranium bearing ores to be mined in the Grants and other districts of New Mexico, then mine value per dry ton shall be the gross value per dry ton of said crude ores as paid for by the Atomic Energy Commission, or other Government authorized agency, mill or other buyer, less any allowances or reimbursements for the following specific items:

(1) Transportation of ores,

(2) Allowances paid to Lessee by the Atomic Energy Commission or other Government authorized agency for [illegible] exploration for or development of ores.

(3) Treatment or beneficiation of ores,

which specific items shall, in such event, be deducted from the gross sale price received from the metal content of said ores by

the seller before said percentage royalty is calculated and paid. Any cost of treatment or beneficiation shall be the actual cost without any milling profit. It is specifically understood that any mine production bonuses shall be included in the mine value per dry ton.

Lessee agrees to pay the above percentage royalty payments on or before the fifteenth (15th) day of the month next following the removal from the demised premises, weighing and sampling by lessee of said ores, and lessee shall attach to each such payment made a statement of the mine value of said ores and the amount of royalty due on each lot so removed.

The royalty provisions of this lease will be subject to reasonable adjustment at the end of each successive 10-year period, such adjustment being based upon market conditions as supported by evidence from the field, and subject to the approval of the Secretary of the Interior or his authorized representative.

(b) ANNUAL RENTAL. To pay, or cause to be paid, to the Lessor, through the Area Director, in advance beginning with the date of approval of the lease, as annual rental, the following: 25 cents per acre for the first calendar year or fraction thereof, 50 cents per acre per annum for the second and third years, and $1.00 per acre per annum in advance for each and every calendar year thereafter during the continuance of the lease, it being understood and agreed that said sum so paid shall be a credit on the royalties accruing during the year for which the payment of annual rental is made and that said annual rental when paid shall not be refunded to the Lessee because of any subsequent surrender or cancellation hereof.

(c) DILIGENCE, PREVENTION OF WASTE. To exercise diligence in the conduct of the prospecting and mining operations; to carry on development and operations in a workmanlike manner, and to the fullest extent possible, consistent with good mining practice; to commit no waste on said land, and to suffer none to be committed upon the portion in its occupancy or use; to comply with all the requirements and the laws of the State in which the land is located; to take appropriate steps for the preservation of the property and the health and safety of the workmen; promptly to surrender and return the premises upon the termination of this lease to whomsoever shall be lawfully entitled thereto in as good condition as received, except for the ordinary wear and tear and unavoidable accidents in their proper use and changes which may be due to the proper mining and use of the same under this lease.

Lessee may, upon any termination, move and remove, within sixty (60) days all tools, machinery, equipment and improvements placed thereon by it, providing the payments agreed upon by the Lessee have been made and the lease terms and provisions applicable thereto have been fully complied with; provided, however, that Lessee, at the request of Lessor, shall not remove any roads or appurtenances thereto, fences or casing in water wells which may be necessary and desirable to continue the same as a producing well; not to permit any nuisance to be maintained on the premises under Lessee's control, nor allow any intoxicating liquors to be sold or given away for any purpose on such premises and not to use such premises for any other purposes than those authorized in this lease.

(d) DEVELOPMENT. The land described herein shall not be held by the Lessee for speculative purposes, but in good faith for mining the minerals specified; and the failure by the Lessee in the diligent development and continued operation of the mine or mines, except when operations may be interrupted by strikes, the elements or casualties not attributable to the Lessee, shall be held as a want of compliance with the purposes of this lease and shall render it subject to cancellation. The duties of Lessee, however, shall be fully performed when it has mined and operated in a manner consistent with good and sound economic mining practice considering the conditions which may from time to time confront the Lessee in its operations, provided, that whenever the Secretary of the Interior shall consider the marketing facilities inadequate or the economic conditions unsatisfactory, he may after consultation with the Lessor authorize the suspension of operations for such time as he may deem advisable, but such action will not release the Lessee from the payment of the advance annual rental.

(e) MONTHLY STATEMENTS. To keep an accurate account of all mining operations, and in the case of all ores mined and removed and not sold in the form of crude ores to third parties but title to which is retained by Lessee, to show the whole amount of such ores and minerals mined and the valuation thereof for royalty purposes under the terms of this Lease: in the case of ores which are sold or otherwise disposed of to third parties and title to which is not retained by Lessee, to keep an accurate account of all mining operations, showing the sales, prices, dates, purchasers and the whole amount of minerals mined, the amount removed and the gross receipts derived therefrom; and in either case to furnish the Area Director and the Lessor sworn monthly reports thereon not later than the 15th of the succeeding month; and all sums due as royalty and advance rental shall be a lien on all implements, tools, movable machinery and all other

personal chattels used in operation upon said property, and upon all of the minerals obtained from the land herein leased, but not yet removed therefrom, as security for payment of said sums. An audit of the Lessee's accounts and books shall be made annuall or at such times as may be directed by the Area Director by certified public accountants approved by the Secretary of the Interior and at the expense of the Lessee. The Lessee shall furnish free of cost a copy of such audits to the Secretary of the Interior through the Area Director and to the Lessor within thirty (30) days after the completion of such auditing.

(f) REGULATIONS. To abide by and conform to any and all regulations of the Secretary of the Interior now or hereafter in force relative to such leases, PROVIDED, that no regulations hereafter approved shall effect a change in rate of royalty, the annual rental herein specified, or the term of this lease, withou the written consent of the parties to this lease.

(g) ASSIGNMENT OF LEASE. Not to assign this lease or any interest therein by an operating agreement or otherwise, nor to sublet any portion of the leased premises, except with the approval of the Secretary of the Interior and the Lessor. If this lease is divided by assignment of an entire interest in any part of it, each part shall be considered a separate lease under all the terms and conditions of the original lease.

(h) BOND. To furnish such bond as may be required by the regulations of the Secretary of the Interior conditioned upon compliance with the terms of this lease.

4. INSPECTION. The leased premises and producing operations, improvements, machinery and fixtures thereon and connected therewith and all books and accounts of the Lessee shall be open at all times for inspection by agents of the Lessor, or any duly authorized representative of the Secretary of the Interior, insofar as may be necessary or desirable in determining amounts to be paid to Lessor hereunder or to determin whether or not Lessee is complying with the terms and provisions of this lease.

5. DISPOSITION OF SURFACE. The lessor expressly reserves the right to lease, sell, or otherwise dispose of the minerals not covered by this lease and the surface of the lands embraced within this lease under existing law or laws hereafter enacted, such disposition to be subject at all times to the right of the Lessee herein to the use of so much of said surface as is necessary in the extraction and removal of the minerals from the land herein described in accordance with this lease.

6. SURRENDER AND TERMINATION. The Lessee shall have the right at any time during the term hereof to surrender and terminate this lease or any part thereof upon the payment of all rentals, royalties and other obligations due and payable to the Lessor, and the further sum of $1.00, upon a showing satisfactory to the Secretary of the Interior and the Lessor that full provision has been made for the conservation and protection of the property, the lease to continue in full force and effect as to the lands not so surrendered. If this lease has been recorded Lessee shall file a recorded release with his application to the Area Director for termination of this lease.

7. CANCELLATION AND FORFEITURE. When, in the opinion of the Secretary of the Interior, there has been a violation of any of the terms and conditions of this lease before restrictions are removed, the Secretary of the Interior shall have the right at any time after thirty (30) days' notice to the Lessee, specifying the terms and conditions violated, and after a hearing, if the Lessee shall so request within thirty (30) days of receipt of such notice, to declare this lease null and void, and the Lessor shall then be entitled and authorized to take immediate possession of the land.

8. HEIRS AND SUCCESSORS IN INTEREST. It is further covenanted and agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to the heirs, executors, administrators, successors of, or assigns of the respective parties hereto.

9. GOVERNMENT EMPLOYEES CANNOT ACQUIRE LEASE. No lease, assignment thereof, or interest therein will be approved to any employee or employees of the United States Government whether connected with the Indian Service or otherwise, and no employee of the Interior Department shall be permitted to acquire any interest in such leases by ownership of stock in corporations having leases or in any other manner.

10. BUILDING SITES. Unless otherwise permitted in writing by the Secretary of the Interior and the Lessor, not in excess of ten (10) acres will be used by Lessee for the site of buildings.

11. FENCING. It is understood by the parties hereto that any fences constructed by the Lessee shall be restricted to such of the above described lands on which active operations are being conducted which make it necessary or desirable to exclude livestock.

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12. ROADS. The Lessee shall have the privilege of constructing and maintaining at its own expense any additional roads or transportation facilities across Lessor's lands that are necessary in carrying on the mining work under this lease provided that the location of such roads be approved in writing by Chairman of Lessor and the Area Director. No part of any such road or roads shall inure to the benefit of the public, and the public shall obtain no rights thereon, but upon termination of this lease for any cause whatsoever or if at any time it shall become unnecessary for Lessee to use any such road for conducting the operations authorized under this lease, the Lessee's right to use said roads shall thereupon cease and all the rights shall revest in the Lessor in accordance with law. The Lessee shall hold the United States and the Lessor harmless and indemnify them against any and all loss or damage which might result from the construction or maintenance by Lessee of said roads in a negligent manner.

Any installations made in connection with roads or transportation facilities by the Lessee may be removed by the Lessee.

13. INDIAN LABOR. The Lessee shall employ Indians, giving priority to the members of the Canoncito Navajo Band, in all positions for which they are qualified and available and shall pay the prevailing wage rates for similar services in the area. The Lessee shall do everything practicable to employ qualified Indians, giving priority to the members of the Canoncito Navajo Band, and their equipment in all hauling of materials under this lease, insofar as Lessee does not use its own equipment for that purpose. Lessee agrees to make special efforts to work Indians giving priority to the members of the Canoncito Navajo Band, into skilled, technical, and other higher jobs in connection with the Permittee's operations under this lease.

14. Lessee shall, and hereby agrees to, indemnify, protect, and save harmless said Lessor and the United States from and against the following specific claims, demands, and damages (and none other) arising out of Lessee's negligence or actionable faults in connection with Lessee's work and operations hereunder, to-wit:

(a) To property of third persons, including Navajo Indians.

(b) To third persons, including Navajo Indians, for injury or death.

(c) To the livestock of the Lessor and its members and to the permanent buildings and structures of the Lessor and its members situate on the property covered by this permit.

(d) Liens or lien claims on account of labor performed upon or material furnished to the property covered by this lease at the instance of the Lessee.

15. Lessee agrees to carry such insurance covering all persons working in or on said property for Lessee as will fully comply with the provisions of the Statutes of the State of New Mexico, covering workmen's compensation and occupational disease, as are now in force or as they may hereafter be changed or amended. Further, Lessee agrees to comply with all of the terms and provisions of all applicable laws of the State of New Mexico and of the United States of America as now exist or as hereafter amended, pertaining to Social Security, Unemployment Compensation, wages, hours and conditions of labor, and to indemnify and hold the Lessor and the United States harmless from payment of any damages occasioned by Lessee's failure to comply with said laws. Lessee shall pay all taxes lawfully assessed against its property or operations.

16. Lessee shall not discriminate against any employee or applicant for employment because of race, creed, color or national origin, and shall require the identical provisions to be included in all subcontracts hereunder.

17. No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this lease or to any benefit that may arise therefrom, but this provision shall not be considered to extend to this lease if made with a corporation for its general benefit.

IN WITNESS WHEREOF we have executed this lease on the date first abovementioned.

AMENDMENT TO MINERAL PROSPECTING PERMIT

THIS AGREEMENT made and entered into this 19 day of April, 1954 by and between the CANONCITO BAND OF THE NAVAJO TRIBE, hereinafter called the Permittor, and CANONCITO URANIUM CORPORATION, a New Mexico corporation, whose address is P. O. Box 1427, Albuquerque, New Mexico, hereinafter called the Permittee, WITNESSETH:

Recitals

(a) On March 8, 1954 the Acting Area Director, Albuquerque Area Office, Bureau of Indian Affairs, approved a Mineral Prospecting Permit entered into on December 2, 1953 by and between the Canoncito Band of the Navajo Tribe and John Lynes and Samuel C. Johnson, the effective date of said permit being March 8, 1954.

(b) Said Mineral Prospecting Permit was duly assigned by the Permittee named therein to Canoncito Uranium Corporation, a New Mexico Corporation.

(c) The Permittee has requested, as specified in its letter of April 14, 1954 to the General Superintendent, United Pueblos Agency, the inclusion in the aforementioned permit of the following described lands of the permittor in Township 11 North, Range 3 West, N.M.P.M.: W½ Section 25, E½ Section 26 and NE¼ Section 35, a total of 800 acres, more or less.

NOW, THEREFORE, it is agreed by the parties hereto that the aforementioned 800 acres be included in said Mineral Prospecting Permit

BUREAU OF INDIAN AFFAIRS
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Washington, D. C.

RESOLUTION

At a duly called meeting of the Council of the Canoncito Band of the Navajo Tribe on the 19 day of April, 1954 the following resolution was adopted:

BE IT RESOLVED that the Council of the Canoncito Band of the Navajo Tribe hereby consents to the amendment to the Mineral Prospecting Permit held by Canoncito Uranium Corporation on our lands to include in said permit the following additional lands in Township 11 North, Range 3 West: W½ Section 25, E½ Section 26 and NE¼ Section 35, a total of 800 acres, more or less, provided said Canoncito Uranium Corporation pays the sum of $800 for the inclusion of said additional lands in the Mineral Prospecting Permit.

BE IT FURTHER RESOLVED that the Chairman of the Canoncito Band of the Navajo Tribe be and he is hereby authorized to sign said amendment to said Mineral Prospecting Permit.

X Desiderio Platero
Chairman

Witnesses to mark of Chairman

Tom Francisco

Earl Begay

Richard Platero
Member of Council

Charlie Apodaca
Member of Council

approved on March 8, 1954 upon payment by the permittee to the permittor the sum of One Dollar ($1.00) per acre or a total of Eight Hundred Dollars ($800) for the addition of said 800 acres to the permit.

The aforesaid Mineral Prospecting Permit shall remain in full force and effect in all of its terms save and excepting the specific amendment made herein.

IN WITNESS WHEREOF the parties hereto have hereunto set their hands on the 19 day of April, 1954.

CANONCITO BAND OF THE NAVAJO TRIBE

by Y. Deidrick Peaton
Chairman

Witnesses to mark of Chairman:

Tom T. Cannico

Earl Begay

CANONCITO URANIUM CORPORATION

by John Lynes, President — Edward Oppenheimer, Secretary

Recommended for approval: 4-26, 1954

APPROVED June 16, 1954 (by authority Ind. Office letter 6-11-54)

Guy C. Williams
General Superintendent
United Pueblos Agency
Bureau of Indian Affairs

* *

CONSENT OF SURETY

Consent is hereby given to the foregoing amendment to Mineral Prospecting Permit dated December 2, 1953 by and between the Canoncito Band of the Navajo Tribe and John Lynes and Samuel C. Johnson which permit has been assigned to Canoncito Uranium Corporation, and the Bond to Accompany Mineral Prospecting Permit on form 5-154b dated February 24, 1954 shall continue in full force and effect.

Dated at Albuquerque, New Mexico on the 23 day of April, 1954.

ST. PAUL MERCURY INDEMNITY COMPANY

by Peter F. McCanna
Attorney-In-Fact

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Indian Affairs

United Pueblos Agency
Box 1346
Albuquerque, New Mexico
June 17, 1954

Mr. Desidero Flatero
Chairman, Canoncito Band of the Navajo Tribe
Correo, New Mexico

Dear Mr. Flatero:

Enclosed is check No. 32 of Canoncito Uranium Corporation payable to Chairman Canoncito Navajo Band of Indians in amount of $ 800.00, in payment for bonus payment on addition of 800 acres to Mineral Prospecting Permit. Approved copy of Amendment to Mineral Prospecting Permit is attached for your records.

Sincerely yours,

Dewey Mannino
Real Property Officer

Copy to:

Mr. John Lynes
President, Canoncito Uranium Corp.
Box 1427, Albuquerque

with approved Amendment to Mineral Prospecting Permit.

UNITED STATES DEPARTMENT OF THE INTERIOR

Bureau of Indian Affairs

BUREAU OF INDIAN AFFAIRS
RECEIVED
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16954
Washington, D. C.

ASSIGNMENT OF MINERAL PROSPECTING PERMIT

WHEREAS, the Acting Area Director, Albuquerque Area Office, and General Superintendent, United Pueblos Agency, Bureau of Indian Affairs, pursuant to authority delegated to him by the Secretary of the Interior and the Commissioner of Indian Affairs, has heretofore approved a Mineral Prospecting Permit dated December 2, 1953, by and between the CANONCITO BAND OF THE NAVAJO TRIBE, permitter, and JOHN LYNES and SAMUEL C. JOHNSON, permittee, and an ASSIGNMENT thereof to CANONCITO URANIUM CORPORATION, a New Mexico corporation having its principal place of business at Albuquerque, New Mexico, and two amendments to said Permit, each dated April 19, 1954, covering the following described lands of the Canoncito Band of the Navajo Tribe in the State of New Mexico, to-wit:

> Approximately 15,790 acres, more or less, in Townships 9, 10, 11, and 12 North, Range 3 West, N.M.P.M., more particularly described in said Mineral Prospecting Permit and the Amendments thereto dated April 19, 1954.

NOW, THEREFORE, for and in consideration of $10.00** *****TEN***** Dollars, the receipt of which is hereby acknowledged, the said Canoncito Uranium Corporation, the owner of the above-described Mineral Prospecting Permit, as amended, hereby bargains, sells, transfers, assigns, and conveys all its right, title, and interest in and to said Mineral Prospecting Permit, as amended, subject to the approval of the Secretary of the Interior or his authorized representative,

to CALUMET & HECLA, INC., a corporation organized and existing under the laws of the State of MICHIGAN and duly authorized to do business in the State of New Mexico, said assignment to be effective from date of approval hereby by the Secretary of the Interior or his authorized representative.

IN WITNESS WHEREOF, the said assignor has hereunto set its hand and seal this 19th day of November, 1954.

CANONCITO URANIUM CORPORATION

Attest:

/s/ Edward Oppenheimer
Secretary

/s/ John Lynes (President)

(corporate seal)

- -

ACKNOWLEDGEMENT OF CORPORATION

STATE OF NEW MEXICO }
COUNTY OF BERNALILLO } SS.

On this 19th day of November, 1954, before me appeared John Lynes, to me personally known, who, being by me duly sworn, did say that he is the President of Canoncito Uranium Corporation, and that the seal affixed to said instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said John Lynes acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and seal on this the day and year first above written.

My commission expires:
April 10, 1958

/s/ James T. Paulaute
Notary Public

ACCEPTANCE BY ASSIGNEE

The assignee in the above and foregoing assignment, made subject to the approval of the Secretary of the Interior or his authorized representative and the Canoncito Band of the Navajo Tribe, hereby accepts said assignment and agrees to fulfill all the obligations, conditions, and stipulations in said described Mineral Prospecting Permit, as amended, when assigned, and the rules and regulations of the Secretary of the Interior applicable thereto and to furnish proper bond guaranteeing faithful compliance with said Mineral Prospecting Permit, as amended, and this agreement.

IN WITNESS WHEREOF the said assignee has hereto set its hand and seal this 1st day of December, 1954.

CALUMET & HECLA, INC.

Attest:

Ass't /s/ A. E. Petermann
Secretary

by /c/ C. C. Jung
Vice President of Finance (title)

(corporate seal)

- -

ACKNOWLEDGEMENT OF CORPORATION

STATE OF Illinois
COUNTY OF Cook } SS.

On this 1st day of December, 1954, before me appeared C. C. Jung, to me personally known, who, being by me duly sworn, did say that he is the Vice President-Finance of Calumet & Hecla, Inc., and that the seal affixed to said instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said C. C. Jung acknowledged said instrument to be the free act and deed of said corporation.

WITNESS my hand and seal on this the day and year first above written.

My commission expires:
June 4, 1957

/s/ Elizabeth Ann Ryan
Notary Public

APPROVED: (Date) [illegible]

/s/ W. Wade Hind
Area Director (per Commissioner's letter of Jan. 14, 1955)

RESOLUTION

At a duly called meeting of the Council of the Cameronite Band of the Navajo Tribe on the 17 day of November, 1954, the following resolution was adopted:

BE IT RESOLVED that the Council of the Cameronite Band of the Navajo Tribe hereby consents to the approval, by the Secretary of the Interior or his duly authorized representative, of an Assignment to Calumet & Hecla, Inc. of the Mineral Prospecting Permit dated December 2, 1953, as amended April 19, 1954, held by Cameronite Uranium Corporation on approximately 15,790 acres of our tribal land.

his mark

Witnesses to marks:

Chairman

Member of Council

Member of Council

Member of Council

Allotted

RECEIVED
JUN 30 1955

BUREAU OF INDIAN AFFAIRS
RECEIVED
SEP - 1 1954
12766
Washington, D. C.

MINERAL PROSPECTING PERMIT

THIS AGREEMENT made and entered into this 10 day of August, 1954 by and between Nah-diee Mahagano, also called Matias Mexicano, a widower, - - -

party of the first part, hereinafter called Permittor, whose address is c/o Canoncito Navajo Co-op., Correo, New Mexico and CANONCITO URANIUM CORPORATION, a New Mexico corporation, whose address is P. O. Box 1427, Albuquerque, New Mexico

party of the second part, hereinafter called the Permittee.

Definitions: As used herein, "Secretary" means the Secretary of the Interior, "General Superintendent" means the General Superintendent of United Pueblos Agency, Box 1346, Albuquerque, New Mexico, or other official in charge of the Indian Agency having jurisdiction over the land.

In consideration of the sum of One Hundred Fifty-nine and 73/100 Dollars ($ 159.73), the receipt of which is hereby acknowledged, and the covenants, stipulations and conditions hereinafter contained, it is agreed:

A. Subject to the limitations hereinafter stated, Permittor grants the Permittee the exclusive right for a period of one year from the date of approval of this permit by the Secretary to prospect for uranium and minerals associated therewith upon the following described allotted lands of Permittor, consisting of 159.73 acres more or less situated in Valencia County, State of New Mexico:

Lots 3, 4, S½NW¼ Section 4, Township 9 North, Range 3 West, N.M.P.M. (Indian Trust Allotment No. 061958).

7-21-54 Allotted

B. This permit is granted on the following express terms, covenants, and conditions:

1. The Permittee agrees to expend on actual prospecting and exploration work not less than the sum of One Hundred ..... Dollars ($ 100.00). If Permittee fails to expend said amount, Permittee agrees to pay to the General Superintendent for the benefit of Permittor the difference between the sum spent on actual prospecting and exploration work and the sum agreed to be spent, said liquidated damages to be paid on expiration, surrender or termination of this permit.

2. At least thirty (30) days before the end of the first year from the approval of this permit, the Permittee may give notice to the Permittor and General Superintendent that it desires to have said permit renewed for a one-year period, and upon the Permittee submitting to Permittor and the General Superintendent at the time of application for renewal evidence that the sum agreed to be expended on actual prospecting and exploration work during the first year has been or will be spent this permit shall be renewed for a one-year period upon payment to the General Superintendent for the benefit of the Permittor of the same bonus as was paid for the first year (which sum shall be credited on rentals or royalties payable during the second year of the permit on any leases in effect during the second year) AND the expenditure of not less than the same amount on actual prospecting and exploration work as was required during the first year of the permit. If Permittee fails to spend said sum on actual prospecting and exploration work during the second year it agrees to pay to the General Superintendent for the benefit of the Permittor as liquidated damages the difference between the sum expended and the sum agreed to be spent, said liquidated damages to be paid on surrender, termination or expiration of the permit. No refund shall be made of payments for renewal of this permit.

3. The Permittee may, subject to the provisions hereinbefore stated, surrender this permit in writing during the renewal period upon the performance of all of Permittee's obligations hereunder, upon the payment of $1.00 and upon a showing satisfactory to the Permittor and the Secretary that full provision has been made for the conservation and protection of the property. If this permit has been recorded, the Permittee shall file a recorded release with its application for surrender.

7-21-54 Allotted

4. Permittee shall begin actual prospecting and exploration work within thirty (30) days from the date of approval and receipt by Permittee of the completed instrument and shall diligently prosecute the same in accordance with approved methods unless prevented by strikes, acts of God, or other conditions over which Permittee has no control.

5. Permittee may use existing roads on the land and shall also have the privilege of constructing and maintaining at its expense any additional roads across the land that are necessary in carrying on the actual prospecting and exploration work, PROVIDED that the location of any additional roads be first approved in writing by Permittor and the General Superintendent. No part of any such road or roads shall inure to the benefit of the public which shall obtain no rights thereon, but upon termination of this permit for any cause whatsoever or if at any time it shall become unnecessary for Permittee to use any such road for conducting the operations authorized under this permit or subsequent leases acquired pursuant to this permit the right to use said road shall thereupon cease and all the rights shall revest in Permittor in accordance with law. The Permittee shall hold the Permittor and the United States harmless and indemnify them against any and all loss or damage that might result from the construction or maintenance by Permittee of said roads in a negligent manner.

6. Permittee shall have the right at its own expense to drill and equip water wells on said premises and agrees that at the termination of the permit by expiration of its term or otherwise all wells will be left intact and properly cased. Permittee shall have the right to remove all mechanical pumping equipment installed by it at any wells. If any of said wells shall produce water surplus to the needs of the Permittee, said water shall be available to the Permittor.

7. Permittee shall have the right free of charge to install on the premises power and water lines which may be removed by the Permittee on termination of this permit.

8. Application for rights of way will be made by Permittee pursuant to the requirements of 25 C. F. R. 256.

9. Permittee shall comply with all laws and regulations of competent public authority with reference to such prospecting. Particularly, the Secretary shall have access to all information obtained by the Permittee in carrying out the work hereunder.

10. In the event Permittee discovers a deposit or deposits of ore and desires to work and mine the same and desires a lease thereon, the Permittor will, upon notice from Permittee in writing by registered United States mail, postage prepaid, addressed to Permittor and to the General Superintendent describing the particular land desired, give and grant and the Secretary will, on compliance with the regulations applicable to the issuance of such leases, approve a mining lease on such lands under the terms and conditions provided for in the attached form of lease, which is identified as Exhibit "A".

Leases shall only be granted for lands described by legal sub-divisions or fractions thereof or by survey description PROVIDED that areas of less than ten (10) acres may be included in a lease only if such area has been surveyed. Said parcels need not be contiguous . All leases shall be within the area covered by the permit. Such leases may be requested by Permittee on additional tracts from time to time during the effective period of this permit. Permittee, however, shall include in request for leases only such acreage as is necessary and desirable for the efficient and proper mining operations on the deposit or deposits concerned. All applications for leases must be submitted prior to the expiration or termination of the permit. The maximum acreage that may be taken under lease or leases shall be in accordance with regulations of the Department of the Interior or such additional amount as may be authorized by any waiver of said regulations.

11. Prior to the approval of a lease in favor of Permittee no ores shall be removed except samples for examination or experimental purposes.

12. Before this permit shall become effective, Permittee shall furnish to the General Superintendent an acceptable surety bond in the amount of _____ Dollars ($_____).

13. This prospecting permit is exclusive to Permittee as it is recognized that expenditure of time, money and effort is necessary to prospect the property properly and systematically in which Permittee should be protected, if valuable deposits are found. No other permit or right for the minerals covered hereby shall be given to anyone else on any unsurrendered portion of the lands covered by this permit so long as this permit is in effect.

14. The Permittee shall employ Indians, giving priority to the Permittor and other members of his Band or Tribe in all positions for which they are qualified and available and shall pay the prevailing wage rates for similar services in the area. The Permittee shall do everything practicable to employ qualified Indians, giving priority to Permittor and other members of his Band or Tribe, and their equipment in all hauling of materials under the permit and any leases taken and any work done thereunder, insofar as Permittee does not use its own equipment for that purpose. Permittee agrees to make special efforts to work Indians, giving priority to Permittor and other members of his Band or Tribe, into skilled, technical, and other higher jobs in connection with the Permittee's operations under the permit and leases taken hereunder.

15. The Permittee agrees that on termination of operations under this permit or leases taken thereunder it will make provisions for conservation and protection of the property and leave all of the areas on which it has worked in a condition that will not be hazardous to life or limb.

16. Permittee shall, and hereby agrees to indemnify, protect, and save harmless said Permittor and the United States of America from and against the following specific claims, demands and damages arising out of Permittee's negligence or actionable faults in connection with Permittee's work and operations, hereunder, to-wit:

(a) To property of Permittor and third persons.

(b) To Permittor and third persons for injury or death.

(c) To the livestock of the Permittor and others and to the permanent buildings and structures of the Permittor situated on the property covered by this permit.

7-21-54 Allotted

(d) Liens or lien claims on account of labor performed upon or material furnished to the property covered by this permit at the instance of the Permittee.

17. Permittee agrees to carry such insurance covering all persons working in,on, or in connection with said property for Permittee as will fully comply with the provisions of the statutes of the State of New Mexico, covering workmen's compensation and occupational disease, as are now in force or as they may hereafter be changed or amended. Further, Permittee agrees to comply with all of the terms and provisions of all applicable laws of the State of New Mexico and of the United States of America as now exist or as hereafter amended, pertaining to Social Security, Unemployment Compensation, wages, hours and conditions of labor, and to indemnify and hold Permittor and the United States harmless from payment of any damages occasioned by Permittee's failure to comply with said laws. Permittee shall pay all taxes lawfully assessed against its property or operations.

18. The Permittor expressly reserves the right to use, lease, sell or otherwise dispose of the minerals not covered by this permit and the surface of the lands embraced within this permit under existing laws or laws hereafter enacted. Such disposition and use shall be subject at all times to the rights of the Permittee under this permit.

19. When in the opinion of the Secretary there has been a violation of any of the terms and conditions of this permit or the applicable regulations, the Secretary shall have the right at any time after thirty days notice to the Permittee, specifying the violations and after a hearing if the Permittee shall so request within thirty days of receipt of notice, to declare this permit null and void.

20. Permittee shall not knowingly permit any nuisance to be maintained on the premises nor consent to any intoxicating liquor being sold or given away for any purpose on such premises and agrees not to use said premises for any purpose other than those authorized in this permit.

21. Permittee shall not discriminate against any employee or applicant for employment because of race, creed, color or national origin and shall require an identical provision to be included in all subcontracts hereunder.

7-21-54 Allotted

EXHIBIT "A"

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Indian Affairs

MINING LEASE - ALLOTTED INDIAN LANDS
(For Uranium and other Minerals Associated Therewith)

_____

THIS INDENTURE OF LEASE, made and entered into in quintuplicate this _____ day of _____, 195__ by and between _____ whose address is _____, designated herein as "Lessor" and _____ whose address is _____, herein designated as "Lessee", WITNESSETH:

1. That the Lessor, for and in consideration of $1.00 receipt whereof is hereby acknowledged, and of the royalties, covenants, stipulations and conditions hereinafter contained and hereby agreed to be paid and observed by the Lessee, doth hereby demise, grant and lease unto the said Lessee, the following described tract of land lying in _____ County, State of New Mexico, to-wit:

7-21-54 Allotted

22. The Permittee agrees not to assign this permit or any interest therein by an operating agreement or otherwise, nor to sublet any portion of the permitted premises, except with the approval of the Secretary and the Permittor.

23. No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this permit or to any benefit that may arise therefrom, but this provision shall not be considered to extend to this permit if made with a corporation for its general benefit.

IN WITNESS WHEREOF we have executed this permit on the date first abovementioned.

+

Nah-dieo Mahagano, also called Matias Mexicano, widower

APPROVED Oct. 13, 1954 pursuant authority Indian Office letter 10-6-54:

Recommended for Approval:

Guy C. Williams
Guy C. Williams
General Superintendent
United Pueblos Agency

CANONCITO URANIUM CORPORATION

By John Lynes
President

ATTEST:

Edward Oppenheimer
Secretary

CORPORATE SEAL

M.M. McCallum
Tony Chavez

for the full term of 15 years from the date of approval hereof, for the sole purpose of prospecting for and mining minerals, as follows: uranium and other minerals associated therewith, the lessee to occupy so much only of the surface of said land as may be reasonably necessary to carry on the work of prospecting for, mining, milling, storing and removing such minerals.

2. As used herein, the term "Secretary" shall refer to the Secretary of the Interior or his authorized representative; General Superintendent shall refer to the General Superintendent of United Pueblos Agency, Box 1346, Albuquerque, New Mexico or other official in charge of the Indian Agency having jurisdiction over the lands leased.

Wherever used in this document the word "ore" shall mean only the ore of uranium and other minerals associated therewith; and the words "ores mined and sold" or similar words shall be construed and understood to mean ores mined and removed from the demised premises for the purposes of milling, treatment, stock-piling or other disposition, and not that ores must be sold as such.

3. In consideration of the foregoing, the Lessee hereby agrees:

(a) ROYALTY. To pay, or cause to be paid, to the _____

General Superintendent for the use and benefit of the Lessor

_____

_____

as royalties the sums of money as follows, to-wit:

On any ores mined and sold by Lessee from the demised property, Lessee agrees to pay a percentage royalty of the mine value per dry ton as set forth in the following percentage royalty schedule:

7-21-54 Allotted

PERCENTAGE ROYALTY SCHEDULE

Mine Value per Dry Ton	Royalty Percentage of Mine Value per Dry Ton
$ 0.01 to $ 10.00 inclusive	10%
10.01 to 20.00 "	11%
20.01 to 30.00 "	12%
30.01 to 40.00 "	13%
40.01 to 50.00 "	14%
50.01 to 60.00 "	15%
60.01 to 70.00 "	16%
70.01 to 80.00	17%
80.01 to 90.00	18%
90.01 to 100.00 "	19%
100.01 or more	20%

"MINE VALUE PER DRY TON", wherever used herein, is hereby defined as the dollar value per dry ton of crude ores at the mine as determined by the application to the valuable metal content of such ore of the price schedules for such ores established and currently in effect by the Atomic Energy Commission or other government authorized agencies before allowance for transportation and development. It is specifically understood that any mine production bonuses shall be included in the "mine value per dry ton". However, if the Government at any time hereafter does not establish or have in effect a price schedule for the purchase of such ores on a fixed or scheduled dollar value per dry ton of crude ores at the mine, or said ores contain salable minerals, some, or all, of which are disposed of to a custom treatment plant or smelter for the treatment and beneficiation of uranium bearing ores to be mined in the Grants and other districts of New Mexico, then mine value per dry ton shall be the gross value per dry ton of said crude ores as paid for by the Atomic Energy Commission, or other Government authorized agency, mill or other buyer, less any allowances or reimbursements for the following specific items:

(1) Transportation of ores.

(2) Allowances paid to Lessee by the Atomic Energy Commission or other Government authorized agency for exploration for or development of ores.

(3) Treatment or beneficiation of ores.

which specific items shall, in such event, be deducted from the gross sale price received from the metal content of said ores by the seller before said percentage royalty is calculated and paid. Any cost of treatment or beneficiation shall be the actual cost without any milling profit. It is specifically understood that any mine production bonuses shall be included in the mine value per dry ton.

Lessee agrees to pay the above percentage royalty payments on or before the fifteenth (15th) day of the month next following the removal from the demised premises, weighing and sampling by lessee of said ores, and lessee shall attach to each such payment made a statement of the mine value of said ores and the amount of royalty due on each lot so removed.

The royalty provisions of this lease will be subject to reasonable adjustment at the end of ten years, such adjustment being based upon market conditions as supported by evidence from the field, and subject to the approval of the Secretary of the Interior or his authorized representative.

(b) ANNUAL RENTAL. To pay, or cause to be paid, to General Superintendent for use and benefit of the Lessor in advance beginning with the date of approval of the lease, as annual rental $1.00 per acre for the first calendar year or fraction thereof and $1.00 per acre per annum in advance for each and every calendar year thereafter during the continuance of the lease, it being understood and agreed that said sum so paid shall be a credit on the royalties accruing during the year for which the payment of annual rental is made and that said annual rental when paid shall not be refunded to the Lessee because of any subsequent surrender or cancellation hereof.

(c) DILIGENCE, PREVENTION OF WASTE. To exercise diligence in the conduct of the prospecting and mining operations; to carry on development and operations in a workmanlike manner, and to the fullest extent possible, consistent with good mining practice; to commit no waste on said land, and to suffer none to be committed upon the portion [illegible]'s occupancy or use; to comply with all the requirements and the laws of the State in which the land is located; to take appropriate steps for the preservation of the property and the health and safety of the workmen; promptly to surrender and return the premises upon the termination of this lease to whomsoever shall be lawfully entitled thereto in as good condition as received, except for the ordinary wear

and tear and unavoidable accidents in their proper use and changes which may be due to the proper mining and use of the same under this lease. Lessee may, upon any termination, move and remove, within sixty (60) days all tools, machinery, equipment and improvements placed thereon by it, providing the payments agreed upon by the Lessee have been made and the lease terms and provisions applicable thereto have been fully complied with; provided, however, that Lessee, at the request of Lessor, shall not remove any roads or appurtenances thereto, fences or casing in water wells which may be necessary and desirable to continue the same as a producing well; not to permit any nuisance to be maintained on the premises under Lessee's control, nor allow any intoxicating liquors to be sold or given away for any purpose on such premises and not to use such premises for any other purposes than those authorized in this lease.

(d) DEVELOPMENT. The land described herein shall not be held by the Lessee for speculative purposes, but in good faith for mining the minerals specified; and the failure by the Lessee in the diligent development and continued operation of the mine or mines, except when operations may be interrupted by strikes, the elements or casualties not attributable to the Lessee, shall be held as a want of compliance with the purposes of this lease and shall render it subject to cancellation. Provided, that whenever the Secretary shall consider the marketing facilities inadequate or the economic conditions unsatisfactory, he may after consultation with the Lessor authorize the suspension of operations for such time as he may deem advisable, but such action will not release the Lessee from the payment of the advance annual rental.

(e) MONTHLY STATEMENTS. To keep an accurate account of all mining operations, and in the case of all ores mined and removed and not sold in the form of crude ores to third parties but title to which is retained by Lessee, to show the whole amount of such ores and minerals mined and the valuation thereof for royalty purposes under the terms of this Lease: in the case of ores which are sold or otherwise disposed of to third parties and title to which is not retained by Lessee, to keep an accurate account of all mining operations, showing the sales, prices, dates, purchasers and the whole amount of minerals mined, the amount removed and the gross receipts derived therefrom; and in either case to furnish the General Superintendent and the Lessor sworn monthly reports thereon not later than the 15th of the succeeding month; and all sums due as royalty and advance rental shall be a lien on all implements,

tools, movable machinery and all other personal chattels used in operation upon said property, and upon all of the minerals obtained from the land herein leased, but not yet removed therefrom, as security for payment of said sums. An audit of the Lessee's accounts and books shall be made annually or at such times as may be directed by the General Superintendent by certified public accountants approved by the Secretary and at the expense of the Lessee. The Lessee shall furnish free of cost a copy of such audits to the Secretary through the General Superintendent and to the Lessor within thirty (30) days after the completion of such auditing.

(f) REGULATIONS. To abide by and conform to any and all regulations of the Secretary now or hereafter in force relative to such leases, PROVIDED, that no regulations hereafter approved shall effect a change in rate of royalty, the annual rental herein specified, or the term of this lease, without the written consent of the parties to this lease.

(g) ASSIGNMENT OF LEASE. Not to assign this lease or any interest therein by an operating agreement or otherwise, nor to sublet any portion of the leased premises, except with the approval of the Secretary and the Lessor. If this lease is divided by assignment of an entire interest in any part of it, each part shall be considered a separate lease under all the terms and conditions of the original lease.

(h) BOND. To furnish such bond as may be required by the regulations of the Secretary conditioned upon compliance with the terms of this lease.

4. INSPECTION. The leased premises and producing operations, improvements, machinery and fixtures thereon and connected therewith and all books and accounts of the Lessee shall be open at all times for inspection by the Lessor and the Secretary insofar as may be necessary or desirable in determining amounts to be paid to Lessor hereunder or to determine whether or not Lessee is complying with the terms and provisions of this lease.

5. DISPOSITION OF SURFACE. The lessor expressly reserves the right to use, lease, sell, or otherwise dispose of the minerals not covered by this lease and the surface of the lands embraced within this lease under existing law or laws hereafter enacted, such

disposition to be subject at all times to the right of the Lessee herein to the use of so much of said surface as is necessary in the extraction and removal of the minerals from the land herein described in accordance with this lease.

6. SURRENDER AND TERMINATION. The Lessee shall have the right at any time during the term hereof to surrender and terminate this lease or any part thereof upon the payment of all rentals, royalties and other obligations due and payable hereunder and the further sum of $1.00, upon a showing satisfactory to the Secretary and the Lessor that full provision has been made for the conservation and protection of the property, the lease to continue in full force and effect as to the lands not so surrendered. If this lease has been recorded Lessee shall file a recorded release with his application to the General Superintendent for termination of this lease.

7. CANCELLATION AND FORFEITURE. When in the opinion of the Secretary, there has been a violation of any of the terms and conditions of this lease or of the applicable regulations before restrictions are removed, the Secretary shall have the right at any time after thirty (30) days' notice to the Lessee, specifying the terms and conditions violated, and after a hearing, if the Lessee shall so request within thirty (30) days of receipt of such notice, to declare this lease null and void, and the Lessor shall then be entitled and authorized to take immediate possession of the land.

8. RELINQUISHMENT OF SUPERVISION BY THE SECRETARY. Should the Secretary at any time during the life of this instrument, relinquish supervision as to all or part of the acreage covered hereby, such relinquishment shall not bind lessee until said Secretary shall have given 30 days' written notice. Until said requirements are fulfilled, lessee shall continue to make all payments due hereunder as provided herein. After notice of relinquishment has been received by lessee, as herein provided, this lease shall be subject to the following further conditions:

(a) All rentals and royalties thereafter accruing shall be paid directly to lessor or his successors in title.

(b) If, at the time supervision is relinquished by theSecretary as to all lands included in this lease, Lessee shall have made all payments then due hereunder, and shall have fully performed all

obligations on its part to be performed up to the time of such relinquishment, then the bond given to secure the performance hereof, on file in the Indian Office, shall be of no further force or effect.

9. HEIRS AND SUCCESSORS IN INTEREST. It is further covenanted and agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to the heirs, executors, administrators, successors of, or assigns of the respective parties hereto.

10. GOVERNMENT EMPLOYEES CANNOT ACQUIRE LEASE. No lease, assignment thereof, or interest therein will be approved to any employee or employees of the United States whether connected with the Indian Service or otherwise, and no employee of the Interior Department shall be permitted to acquire any interest in such leases by ownership of stock in corporations having leases or in any other manner.

11. FENCING. It is understood by the parties hereto that any fences constructed by the Lessee shall be restricted to such of the above described lands on which active operations are being conducted which make it necessary or desirable to exclude livestock.

12. ROADS. Lessee may use existing roads, if any, on the land and shall also have the privilege of constructing and maintaining at its expense any additional roads across the land that are necessary in carrying on the mining work under this lease provided that the location of any additional roads be first approved in writing by Lessor and the General Superintendent. No part of any such road or roads shall inure to the benefit of the public which shall obtain no rights thereon, but upon termination of this lease for any cause whatsoever or if at any time it shall become unnecessary for Lessee to use any such road for conducting the operations authorized under this lease, the Lessee's right to use said roads shall thereupon cease and all the rights shall revest in the Lessor in accordance with law. The Lessee shall hold the United States and the Lessor harmless and indemnify them against any and all loss or damage which might result from the construction or maintenance by Lessee of said roads in a negligent manner.

13. INDIAN LABOR. The Lessee shall employ Indians, giving priority to the Lessor and other members of his Band or Tribe in all positions for which they are qualified and available and shall pay the prevailing wage rates for similar services in the area. The

Lessee shall do everything practicable to employ qualified Indians, giving priority to the Lessor and other members of his Band or Tribe and their equipment in all hauling of materials under this lease, insofar as Lessee does not use its own equipment for that purpose. Lessee agrees to make special efforts to work Indians giving priority to the Lessor and other members of his Band or Tribe into skilled, technical, and other higher jobs in connection with the Permittee's operations under this lease.

14. Lessee shall, and hereby agrees to, indemnify, protect, and save harmless said Lessor and the United States from and against the following specific claims, demands, and damages (and none other) arising out of Lessee's negligence or actionable faults in connection with Lessee's work and operations hereunder, to-wit:

(a) To property of Lessor and third persons.

(b) To Lessor and third persons, for injury or death.

(c) To the livestock of the Lessor and others and to the permanent buildings and structures of the Lessor situate on the property covered by this permit.

(d) Liens or lien claims on account of labor performed upon or material furnished to the property covered by this lease at the instance of the Lessee.

15. Lessee agrees to carry such insurance covering all persons working in, on, or in connection with said property for Lessee as will fully comply with the provisions of the Statutes of the State of New Mexico, covering workmen's compensation and occupational disease, as are now in force or as they may hereafter be changed or amended. Further, Lessee agrees to comply with all of the terms and provisions of all applicable laws of the State of New Mexico and of the United States of America as now exist or as hereafter amended, pertaining to Social Security, Unemployment Compensation, wages, hours, and conditions of labor, and to indemnify and hold the Lessor and the United States harmless from payment of any damages occasioned by Lessee's failure to comply with said laws. Lessee shall pay all taxes lawfully assessed against production or its property or operations.

7-21-54 Allotted

16. Lessee shall not discriminate against any employee or applicant for employment because of race, creed, color or national origin, and shall require the identical provisions to be included in all subcontracts hereunder.

17. No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this lease or to any benefit that may arise therefrom, but this provision shall not be considered to extend to this lease if made with a corporation for its general benefit.

IN WITNESS WHEREOF we have executed this lease on the date first abovementioned.

Calum

UNITED STATES DEPARTMENT OF THE INTERIOR

Bureau of Indian Affairs

ASSIGNMENT OF MINERAL PROSPECTING PERMITS ON ALLOTTED INDIAN LANDS

WHEREAS the General Superintendent of United Pueblos Agency, Bureau of Indian Affairs, has pursuant to authority delegated to him by the Commissioner of Indian Affairs, heretofore approved fourteen Mineral Prospecting Permits (Nos.1 through 14) dated August 10, 1954, and two mineral prospecting permits (Nos. 15 and 16) dated October 20, 1954, by and between various members of the Canoncito Band of the Navajo Tribe, named hereinbelow, permittors, and CANONCITO URANIUM CORPORATION, a New Mexico corporation, permittee, covering the following described trust allotted lands in the State of New Mexico:

Permit Number	Permittor	Land Description
1	Nah-diee Mahagano, also called Matias Mexicano	Lots 3, 4, S½NW¼ Sec. 4, T. 9 N., R. 3 W. (Allotment No. 061958)
2	Haska-da-ya Mahegano, also called Charley Mexicano, and Mary Mexicano, his wife	Lots 1, 2, S½NE¼ Sec. 6, T. 9 N., R. 3 W. (Allotment No. 061959)
3	Jose Mahegano, also called Jose Mexicano, and Francis Mexicano, his wife	SE¼ Sec. 6, T. 9 N., R. 3 W. (Allotment No. 048261)
4	Nicholas Zacatero, also called Nicanor Zacatero, and Salina Zacatero, his wife	W½E½ Sec. 10, T. 10 N., R. 3 W. (Allotment No. 048261)
5	Nah-ch-des-bah-Chavis, also called Mrs. Gail Werito, and Gail Werito, her husband	N½ Sec. 22, T. 10 N., R. 3 W. (Allotment No. 061968)

Page 2 of Assignment to Calumet & Hecla, Inc. of sixteen Mineral Prospecting Permits of Cannicito Uranium Corporation on Navajo allotted land.

Permit Number	Permitter	Land Description
6	Alth-choe-ha-bah Chavis, also called Mrs. Jose Manuel Chavez, and Jose Manuel Chavez, her husband	NE¼ Sec. 22, T. 10 N., R. 3 W. (Allotment No. 061965)
7	Nah-glee-e-ha-bah Chavis, also called Dorothy Begay, and Earl Begay, her husband	SW¼ Sec. 22, T. 10 N., R. 3 W., (Allotment No. 061967)
8	Antonio Jose Chavis, also called Tony Chavez, and Salina Chavez, his wife	SE¼ Sec. 22, T. 10 N., R. 3 W. (Allotment No. 061966)
9	Francisco Platero, Ramon Platero, Marie Platero, also called Mrs. Jeff Nelson, Joe C. Platero, Ben Platero,, and Kalth-bah-pah, also called Charlie Platero, heirs of Francisco Be-esdan.	NW¼ Sec. 26, T. 10 N., R. 3 W. (Allotment No. 048267)
10	Teodoro Mexicano, also called Gurule Mexicano	NE¼ Sec. 20, T. 11 N., R. 3 W. (Allotment No. 048264)
11	Yazzie Abeita, also called Marie Chackee, and Claudio Chackee, her husband	SW¼ Sec. 28, T. 11 N., R. 3 W. (Allotment No. 061973)
12	Gle-ha-pah Abeyta, also called Feta Johnson	SE¼ Sec. 28, T. 11 N., R. 3 W. (Allotment No. 061972)
13	Alfred Abeyta, also called Fred Abeyta, and Bessie Abeyta, his wife	NW¼ Sec. 28, T. 11 N., R. 3 W. (Allotment No. 061974)
14	To-Naz-bah Abeyta, also called Juanita Abeyta, and Serafin Abeyta, her husband	NE¼ Sec. 28, T. 11 N., R. 3 W., (Allotment No. 061971)

[illegible] assignment to Calumet & Hecla, Inc. of sixteen Mineral Prospecting Permits of Canoncito Uranium Corporation on Navajo allotted land.

Permit Number	Permittor	Land Description
15	Heirs of Be-Chis-No-Pah, deceased allottee of Canoncito Navajo allotment No. 043265	SE¼ Sec. 20, T. 11 N., R. 3 W. (Allotment No. 043265)
16	Heirs of Tom Manning, deceased allottee of Canoncito Navajo allotment No. 061956	Lots 1, 2, S½NE¼ Sec. 4, T. 9 N., R. 3 W.

NOW, THEREFORE, for and in consideration of $10.00** ***TEN*** Dollars, the receipt of which is hereby acknowledged, the said Canoncito Uranium Corporation, the owners of the above-described Mineral Prospecting Permits, hereby bargain, sell, transfer, assign, and convey all its right, title and interest in and to said Mineral Prospecting Permits, subject to the approval of the Secretary of the Interior or his authorized representative, to CALUMET & HECLA, INC., a corporation organized and existing under the laws of the State of MICHIGAN and authorized to do business in the State of New Mexico, said assignment to be effective from date of approval hereby by the Secretary of the Interior or his authorized representative.

IN WITNESS WHEREOF, the said assignor has hereunto set its hand and seal this 19th day of November, 1954.

CANONCITO URANIUM CORPORATION

Attest:

Edward Oppenheimer
Secretary

John Lynes (president)

(corporate seal)

ACKNOWLEDGEMENT OF CORPORATION

STATE OF NEW MEXICO)
) SS.
COUNTY OF BERNALILLO)

On this 19th day of November, 1954, before me appeared John Lynes, to me personally known, who, being by me duly sworn, did say that he is the President of Canoncito Uranium Corporation, and that the seal affixed to said instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said John Lynes acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and seal on this the day and year first above written.

James T. Paulantis
Notary Public

My commission expires:

April 10, 1955

- -

ACCEPTANCE BY ASSIGNEE

The assignee in the above and foregoing assignment, made subject to the approval of the Secretary of the Interior or his authorized representative and the consent of the Permittors, hereby accepts said assignment and agrees to fulfill all the obligations, conditions, and stipulations in said described Mineral Prospecting Permits when assigned, and the rules and regulations of the Secretary of the Interior applicable thereto.

IN WITNESS WHEREOF the said assignee has hereto set its hand and seal this 1st day of December, 1954.

CALUMET & HECLA, INC.

Attest: by C. C. Jung

Vice President of Finance (title)

Assistant Secretary E. Petermann

(corporate seal)

Page 5 of Assignment to Calumet & Hecla, Inc. of sixteen Mineral Prospecting Permits of Canoncito Uranium Corporation on Navajo allotted land.

ACKNOWLEDGEMENT OF CORPORATION

STATE OF Illinois)
) SS.
COUNTY OF Cook)

On this 1st day of December, 1954, before me appeared C. C. Jung, to me personally known, who, being by me duly sworn, did say that he is the Vice President of Finance of Calumet & Hecla, Inc., and that the seal affixed to said instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said C. C. Jung acknowled ed said instrument to be the free act and deed of said corporation.

WITNESS my hand and seal on this the day and year first above written.

By commission expires:
June 4, 1957

Elizabeth Ann Ryan

Date: JAN 23 1955

R. D. Haltz
Area Director

Approved as per authority
contained in Office letter
under date of January 14, 1955

CONSENT TO ASSIGNMENT OF MINERAL PROSPECTING PERMITS

We, the undersigned permittors of certain Mineral Prospecting Permits dated August 10, 1954, approved October 13, 1954, by the General Superintendent of United Pueblos Agency, Bureau of Indian Affairs, issued to Canoncito Uranium Corporation on the hereinafter described trust allotted land, approve an assignment of said permits by the permittee to CALUMET & HECLA, Inc., subject to the approval of said assignment by the Secretary of the Interior or his duly authorized representative:

Permit Number	Land Description
1	Lots 3, 4, S½NW¼ Sec 4, T. 9 N., R. 3 W. (Allotment No. 061958)
2	Lots 1, 2, S½NE¼ Sec. 6, T. 9 N., R 3 W. (Allotment No. 061959)
3	SE¼ Sec. 6, T. 9 N., R. 3 W. (Allotment No. 061960)
4	W½SE¼ Sec. 10, T. 10 N., R. 3 W. (Allotment No. 048261)
5	NW¼ Sec. 22, T. 10 N., R. 3 W. (Allotment No. 061968)
6	NE¼ Sec. 22, T. 10 N., R. 3 W. (Allotment No. 061965)
7	SW¼ Sec. 22, T. 10 N., R. 3 W., (Allotment No. 061967)
8	SE¼ Sec. 22, T. 10 N., R. 3 W. (Allotment No. 061966)
9	NW¼ Sec. 26, T. 10 N., R. 3 W. (Allotment No. 048267)

Page 2 of Assignment to Calumet & Hecla, Inc. of 16 Mineral Prospecting Permits of Canoncito Uranium Corporation on Navajo allotted land.

Permit Number	Land Description
10	NE¼ Sec. 20, T. 11 N., R. 3 W. (Allotment No. 048264)
11	SW¼ Sec. 28, T. 11 N., R. 3 W. (Allotment No. 061973)
12	SE¼ Sec. 28, T. 11 N., R. 3 W. (Allotment No. 061972)
13	NW¼ Sec. 28, T. 11 N., R. 3 W. (Allotment No. 061974)
14	NE¼ Sec. 28, T. 11 N., R. 3 W., (Allotment No. 061971)
15	SW¼ Sec. 20, T. 11 N., R. 3 W. (Allotment No. 048265)
16	Lots 1, 2, S½NE¼ Sec 4, T. 9 N., R. 3 W. (Allotment No. 061956)

Signed this _____ day of _____, 1954, at

Council hall of Canoncito Band of the Navajo Tribes

Witnesses to marks:

_____

address _____

_____

address _____

+ (His mark)

Matias Mexicano (for Permit Nos. 1 and 16)

Charlie + Mexicano

Charley Mexicano (for Permit No. 2)

+ (Her mark)

Mary Mexicano (for Permit No. 2)

Jose + Mexicano

Jose Mexicano (for Permit No. 3)

+ (Her mark)

Francis Mexicano (for Permit No. 3)

Page 3 of "Consent to Assignment to Calumet & Hecla, Inc. of 16 Mineral Prospecting Permits of Canoncito Uranium Corporation on Navajo allotted land.

(Signatures continued from Page 2)

Witnesses to marks:

Wm. H. McCallum

address _____

Richard Platero

address _____

_____ (His mark)
Nicanor Secatero (for Permit No. 4)

_____ (Her mark)
Salina Secatero (for Permit No. 4)

_____ (Her mark)
Nah-ch-des-bah Chavis, also called Mrs. Gail Werito (for Permit No. 5)

_____ (His mark)
Gail Werito (for Permit No. 5)

_____ (Her mark)
Alth-chee-ha-bah Chavis, also called Mrs. Jose Manuel Chavez (for Permit No. 6)

_____ (His mark)
Jose Manuel Chavez (for Permit No. 6)

_____ (Her mark)
Dorothy Begay (for Permit No. 7)

Earl Begay

Earl Begay (for Permit No. 7)

Tony Chavez

Tony Chavez (for Permit No. 8)

Salina Chavez

Salina Chavez (for Permit No. 8)

FOR PERMIT NO. 9:

_____ (His mark)
Francisco Platero

Ramon Platero

Ramon Platero

Marie Nelson

_____ (His mark)
Joe G. Platero

Paddy Platero

Page 4 of Consent to Assignment to Calumet & Hecla, Inc. of 16 Mineral Prospecting Permits of Canoncito Uranium Corporation on Navajo allotted land.

(Signatures continued from Page 3)

Witnesses to Marks:

_____ (His mark)
Teodoro Mexicano (for Permits Nos. 10,15,16)

address _____

_____ (Her mark)
Marie Chackee (for Permit No. 11)

address _____

_____
Claudio Chackee (for Permit No. 11)

_____ (Her mark)
Feta Johnson (for Permit No. 12)

_____
Fred Abeyta (for Permit No. 13)

_____ (Her mark)
Bessie Abeyta (for Permit No. 13)

_____ (Her mark)
Juanita Abeyta (for Permits Nos. 14 and 15)

_____ (His mark)
Serafin Abeyta (for Permit No. 14)

_____

CONSENT TO ASSIGNMENT OF MINERAL PROSPECTING PERMIT

We, the undersigned permittors of a Mineral Prospecting Permit dated October 20, 1954, executed by the heirs of Be-Chis-Ne-Pah, in favor of Canoncito Uranium Corporation on trust allotment No. 048265 described as SE¼ Section 20, Township 11 North, Range 3 West, N.M.P.M., APPROVE an assignment of said permit by the Permittee to CALUMET & HECLA, INC., subject to the approval of said assignment by the Secretary of the Interior or his duly authorized representative.

Witnesses
W. M. McCallan

Earl Ball
Earl Ball (on Permit No. 15)

X Norman Francis Ball
Frances Ball (Mrs. John Ration)
on Permit No. 15

CONSENT TO ASSIGNMENT OF MINERAL PROSPECTING PERMIT

I, the undersigned permittor in a certain Mineral Prospecting Permit dated October 20, 1954, approved by the General Superintendent of United Pueblos Agency, Bureau of Indian Affairs, issued to Canoncito Uranium Corporation on lots 1, 2, and S½NE¼ Section 4, Township 9 North, Range 3 West, N.M.P.M. (allotment No. 061956 of Tom Manning, deceased Canoncito Navajo) approve an assignment of said permit by permittee to CALUMET & HECLA, Inc.

Signed this ___ day of December, 1954 at Gallup, New Mexico.

Simplicio Molina

Ca Cano +

duplicate-original

7-21-54 Allotted

EXHIBIT "A"

UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Indian Affairs

RECEIVED
JUN 30 1955

MINING LEASE - ALLOTTED INDIAN LANDS
(For Uranium and other Minerals Associated Therewith)

THIS INDENTURE OF LEASE, made and entered into in quintuplicate this 1st day of March, 195 5 by and between ANTONIO JOSE CHAVIS, also called TONY CHAVEZ, and SALINA CHAVEZ, his wife, whose address is c/o Canoncito Navajo Coop., Correo, N.Mex., designated herein as "Lessor" and CALUMET & HECLA, INC., a Michigan corporation authorized to do business in New Mexico whose address is 122 South Michigan Ave., Chicago 3, Illinois, herein designated as "Lessee", WITNESSETH:

1. That the Lessor, for and in consideration of $1.00 receipt whereof is hereby acknowledged, and of the royalties, covenants, stipulations and conditions hereinafter contained and hereby agreed to be paid and observed by the Lessee, doth hereby demise, grant and lease unto the said Lessee, the following described tract of land lying in Valencia County, State of New Mexico, to-wit:

SE¼ Section 22, Township 10 North, Range 3 West, N.M.P.M.
containing 160 acres, more or less.
(Indian Trust Allotment No. 061966).

for the full term of 15 years from the date of approval hereof, for the sole purpose of prospecting for and mining minerals, as follows: uranium and other minerals associated therewith, the lessee to occupy so much only of the surface of said land as may be reasonably necessary to carry on the work of prospecting for, mining, milling, storing and removing such minerals.

2. As used herein, the term "Secretary" shall refer to the Secretary of the Interior or his authorized representative; General Superintendent shall refer to the General Superintendent of United Pueblos Agency, Box 1346, ~~Albuquerque~~, New Mexico or other official in charge of the Indian Agency having jurisdiction over the lands leased.

Wherever used in this document the word "ore" shall mean only the ore of uranium and other minerals associated therewith; and the words "ores mined and sold" or similar words shall be construed and understood to mean ores mined and removed from the demised premises for the purposes of milling, treatment, stock-piling or other disposition, and not that ores must be sold as such.

3. In consideration of the foregoing, the Lessee hereby agrees:

(a) ROYALTY. To pay, or cause to be paid, to the Lessor (by checks or money orders payable to Tony Chavez and Salina Chavez, transmitted through the General Superintendent) as royalties the sums of money as follows, to-wit:

On any ores mined and sold by Lessee from the demised property, Lessee agrees to pay a percentage royalty of the mine value per dry ton as set forth in the following percentage royalty schedule:

7-21-54 Allotted

PERCENTAGE ROYALTY SCHEDULE

Mine Value per Dry Ton	Royalty Percentage of Mine Value per Dry Ton
$ 0.01 to $ 10.00 inclusive	10%
10.01 to 20.00 "	11%
20.01 to 30.00	12%
30.01 to 40.00 "	13%
40.01 to 50.00 "	14%
50.01 to 60.00 "	15%
60.01 to 70.00 "	16%
70.01 to 80.00	17%
80.01 to 90.00	18%
90.01 to 100.00 "	19%
100.01 or more	20%

"MINE VALUE PER DRY TON", wherever used herein, is hereby defined as the dollar value per dry ton of crude ores at the mine as determined by the application to the valuable metal content of such ore of the price schedules for such ores established and currently in effect by the Atomic Energy Commission or other government authorized agencies before allowance for transportation and development. It is specifically understood that any mine production bonuses shall be included in the "mine value per dry ton". However, if the Government at any time hereafter does not establish or have in effect a price schedule for the purchase of such ores on a fixed or scheduled dollar value per dry ton of crude ores at the mine, or said ores contain salable minerals, some, or all, of which are disposed of to a custom treatment plant or smelter for the treatment and beneficiation of uranium bearing ores to be mined in the Grants and other districts of New Mexico, then mine value per dry ton shall be the gross value per dry ton of said crude ores as paid for by the Atomic Energy Commission, or other Government authorized agency, mill or other buyer, less any allowances or reimbursements for the following specific items:

(1) Transportation of ores.

(2) Allowances paid to Lessee by the Atomic Energy Commission or other Government authorized agency for exploration for or development of ores.

(3) Treatment or beneficiation of ores.

which specific items shall, in such event, be deducted from the gross sale price received from the metal content of said ores by the seller before said percentage royalty is calculated and paid. Any cost of treatment or beneficiation shall be the actual cost without any milling profit. It is specifically understood that any mine production bonuses shall be included in the mine value per dry ton.

Lessee agrees to pay the above percentage royalty payments on or before the fifteenth (15th) day of the month next following the removal from the demised premises, weighing and sampling by lessee of said ores, and lessee shall attach to each such payment made a statement of the mine value of said ores and the amount of royalty due on each lot so removed.

The royalty provisions of this lease will be subject to reasonable adjustment at the end of ten years, such adjustment being based upon market conditions as supported by evidence from the field, and subject to the approval of the Secretary of the Interior or his authorized representative.

(b) ANNUAL RENTAL. To pay, or cause to be paid, to General Superintendent for use and benefit of the Lessor in advance beginning with the date of approval of the lease, as annual rental $1.00 per acre for the first calendar year or fraction thereof and $1.00 per acre per annum in advance for each and every calendar year thereafter during the continuance of the lease, it being understood and agreed that said sum so paid shall be a credit on the royalties accruing during the year for which the payment of annual rental is made and that said annual rental when paid shall not be refunded to the Lessee because of any subsequent surrender or cancellation hereof.

(c) DILIGENCE, PREVENTION OF WASTE. To exercise diligence in the conduct of the prospecting and mining operations; to carry on development and operations in a workmanlike manner, and to the fullest extent possible, consistent with good mining practice; to commit no waste on said land, and to suffer none to be committed upon the portion of his occupancy or use; to comply with all the requirements and the laws of the State in which the land is located; to take appropriate steps for the preservation of the property and the health and safety of the workmen; promptly to surrender and return the premises upon the termination of this lease to whomsoever shall be lawfully entitled thereto in as good condition as received, except for the ordinary wear

and tear and unavoidable accidents in their proper use and changes which may be due to the proper mining and use of the same under this lease. Lessee may, upon any termination, move and remove, within sixty (60) days all tools, machinery, equipment and improvements placed thereon by it, providing the payments agreed upon by the Lessee have been made and the lease terms and provisions applicable thereto have been fully complied with; provided, however, that Lessee, at the request of Lessor, shall not remove any roads or appurtenances thereto, fences or casing in water wells which may be necessary and desirable to continue the same as a producing well; not to permit any nuisance to be maintained on the premises under Lessee's control, nor allow any intoxicating liquors to be sold or given away for any purpose on such premises and not to use such premises for any other purposes than those authorized in this lease.

(d) DEVELOPMENT. The land described herein shall not be held by the Lessee for speculative purposes, but in good faith for mining the minerals specified; and the failure by the Lessee in the diligent development and continued operation of the mine or mines, except when operations may be interrupted by strikes, the elements or casualties not attributable to the Lessee, shall be held as a want of compliance with the purposes of this lease and shall render it subject to cancellation. Provided, that whenever the Secretary shall consider the marketing facilities inadequate or the economic conditions unsatisfactory, he may after consultation with the Lessor authorize the suspension of operations for such time as he may deem advisable, but such action will not release the Lessee from the payment of the advance annual rental.

(e) MONTHLY STATEMENTS. To keep an accurate account of all mining operations, and in the case of all ores mined and removed and not sold in the form of crude ores to third parties but title to which is retained by Lessee, to show the whole amount of such ores and minerals mined and the valuation thereof for royalty purposes under the terms of this Lease; in the case of ores which are sold or otherwise disposed of to third parties and title to which is not retained by Lessee, to keep an accurate account of all mining operations, showing the sales, prices, dates, purchasers and the whole amount of [illegible]ls mined, the amount removed and the gross receipts derived therefrom; and in either case to furnish the General Superintendent and the Lessor sworn monthly reports thereon not later than the 15th of the succeeding month; and all sums due as royalty and advance rental shall be a lien on all implements,

tools, movable machinery and all other personal chattels used in operation upon said property, and upon all of the minerals obtained from the land herein leased, but not yet removed therefrom, as security for payment of said sums. An audit of the Lessee's accounts and books shall be made annually or at such times as may be directed by the General Superintendent by certified public accountants approved by the Secretary and at the expense of the Lessee. The Lessee shall furnish free of cost a copy of such audits to the Secretary through the General Superintendent and to the Lessor within thirty (30) days after the completion of such auditing.

(f) REGULATIONS. To abide by and conform to any and all regulations of the Secretary now or hereafter in force relative to such leases, PROVIDED, that no regulations hereafter approved shall effect a change in rate of royalty, the annual rental herein specified, or the term of this lease, without the written consent of the parties to this lease.

(g) ASSIGNMENT OF LEASE. Not to assign this lease or any interest therein by an operating agreement or otherwise, nor to sublet any portion of the leased premises, except with the approval of the Secretary and the Lessor. If this lease is divided by assignment of an entire interest in any part of it, each part shall be considered a separate lease under all the terms and conditions of the original lease.

(h) BOND. To furnish such bond as may be required by the regulations of the Secretary conditioned upon compliance with the terms of this lease.

4. INSPECTION. The leased premises and producing operations, improvements, machinery and fixtures thereon and connected therewith and all books and accounts of the Lessee shall be open at all times for inspection by the Lessor and the Secretary insofar as may be necessary or desirable in determining amounts to be paid to Lessor hereunder or to determine whether or not Lessee is complying with the terms and provisions of this lease.

5. DISPOSITION OF SURFACE. The lessor expressly reserves the right to use, lease, sell, or otherwise dispose of the minerals not covered by this lease and the surface of the lands embraced within this lease under existing law or laws hereafter enacted, such

disposition to be subject at all times to the right of the Lessee herein to the use of so much of said surface as is necessary in the extraction and removal of the minerals from the land herein described in accordance with this lease.

6. SURRENDER AND TERMINATION. The Lessee shall have the right at any time during the term hereof to surrender and terminate this lease or any part thereof upon the payment of all rentals, royalties and other obligations due and payable hereunder and the further sum of $1.00, upon a showing satisfactory to the Secretary and the Lessor that full provision has been made for the conservation and protection of the property, the lease to continue in full force and effect as to the lands not so surrendered. If this lease has been recorded Lessee shall file a recorded release with his application to the General Superintendent for termination of this lease.

7. CANCELLATION AND FORFEITURE. When in the opinion of the Secretary, there has been a violation of any of the terms and conditions of this lease or of the applicable regulations before restrictions are removed, the Secretary shall have the right at any time after thirty (30) days' notice to the Lessee, specifying the terms and conditions violated, and after a hearing, if the Lessee shall so request within thirty (30) days of receipt of such notice, to declare this lease null and void, and the Lessor shall then be entitled and authorized to take immediate possession of the land.

8. RELINQUISHMENT OF SUPERVISION BY THE SECRETARY. Should the Secretary at any time during the life of this instrument, relinquish supervision as to all or part of the acreage covered hereby, such relinquishment shall not bind lessee until said Secretary shall have given 30 days' written notice. Until said requirements are fulfilled, lessee shall continue to make all payments due hereunder as provided herein. After notice of relinquishment has been received by lessee, as herein provided, this lease shall be subject to the following further conditions.

(a) All rentals and royalties thereafter accruing shall be paid directly to lessor or his successors in title.

(b) If, at the time supervision is relinquished by theSecretary as to all lands included in this lease, Lessee shall have made all payments then due hereunder, and shall have fully performed all

obligations on its part to be performed up to the time of such relinquishment, then the bond given to secure the performance hereof, on file in the Indian Office, shall be of no further force or effect.

9. HEIRS AND SUCCESSORS IN INTEREST. It is further covenanted and agreed that each obligation hereunder shall extend to and be binding upon, and every benefit hereof shall inure to the heirs, executors, administrators, successors of, or assigns of the respective parties hereto.

10. GOVERNMENT EMPLOYEES CANNOT ACQUIRE LEASE. No lease, assignment thereof, or interest therein will be approved to any employee or employees of the United States whether connected with the Indian Service or otherwise, and no employee of the Interior Department shall be permitted to acquire any interest in such leases by ownership of stock in corporations having leases or in any other manner.

11. FENCING. It is understood by the parties hereto that any fences constructed by the Lessee shall be restricted to such of the above described lands on which active operations are being conducted which make it necessary or desirable to exclude livestock.

12. ROADS. Lessee may use existing roads, if any, on the land and shall also have the privilege of constructing and maintaining at its expense any additional roads across the land that are necessary in carrying on the mining work under this lease provided that the location of any additional roads be first approved in writing by Lessor and the General Superintendent. No part of any such road or roads shall inure to the benefit of the public which shall obtain no rights thereon, but upon termination of this lease for any cause whatsoever or if at any time it shall become unnecessary for Lessee to use any such road for conducting the operations authorized under this lease, the Lessee's right to use said roads shall thereupon cease and all the rights shall revest in the Lessor in accordance with law. The Lessee shall hold the United States and the Lessor harmless and indemnify them against any and all loss or damage which might result from the construction or maintenance by Lessee of said roads in a negligent manner.

13. INDIAN LABOR. The Lessee shall employ Indians, giving priority to the Lessor and other members of his Band or Tribe in all positions for which they are qualified and available and shall pay the prevailing wage rates for similar services in the area. The

Lessee shall do everything practicable to employ qualified Indians, giving priority to the Lessor and other members of his Band or Tribe and their equipment in all hauling of materials under this lease, insofar as Lessee does not use its own equipment for that purpose. Lessee agrees to make special efforts to work Indians giving priority to the Lessor and other members of his Band or Tribe into skilled, technical, and other higher jobs in connection with the Permittee's operations under this lease.

14. Lessee shall, and hereby agrees to, indemnify, protect, and save harmless said Lessor and the United States from and against the following specific claims, demands, and damages (and none other) arising out of Lessee's negligence or actionable faults in connection with Lessee's work and operations hereunder, to-wit

(a) To property of Lessor and third persons, including members of Lessor's family.

(b) To Lessor and third persons, for injury or death.

(c) To the livestock of the Lessor and others and to the permanent buildings and structures of the Lessor situate on the property covered by this permit.

(d) Liens or lien claims on account of labor performed upon or material furnished to the property covered by this lease at the instance of the Lessee.

15. Lessee agrees to carry such insurance covering all persons working in, on, or in connection with said pro perty for Lessee as will fully comply with the provisions of the Statutes of the State of New Mexico, covering workmen's compensation and occupational disease, as are now in force or as they may hereafter be changed or amended. Further, Lessee agrees to comply with all of the terms and provisions of all applicable laws of the State of New Mexico and of the United States of America as now exist or as hereafter amended, pertaining to Social Security, Unemployment Compensation, wages, hours, and conditions of labor, and to indemnify and hold the Lessor and the United States harmless from payment of any damages occasioned by Lessee's failure to comply with said laws. Lessee shall pay all taxes lawfully assessed against production or its property or operations.

7-21-54 Allotted

16. Lessee shall not discriminate against any employee or applicant for employment because of race, creed, color or national origin, and shall require the identical provisions to be included in all subcontracts hereunder.

17. No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this lease or to any benefit that may arise therefrom, but this provision shall not be considered to extend to this lease if made with a corporation for its general benefit.

IN WITNESS WHEREOF we have executed this lease on the date first abovementioned.

Witnesses to signature of Lessor
Robert R. Reynolds

3431 Anderson
Albuquerque, New Mexico

March 21
address

Antonio Jose Chavis, also called Tony Chaves

Salina Chaves

CALUMET & HECLA, INC.
E. R. Lovell
by

President (title)

Attest:
A. E. Petermann
Asst Secretary

(corporate seal)

March 21,
APPROVED: , 1955
pursuant authority contained in Indian Office letter dated October 6, 1954 (Minerals 12768-54)

Guy C. Williams

General Superintendent
United Pueblos Agency
Bureau of Indian Affairs
Albuquerque, New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR

OFFICE OF INDIAN AFFAIRS

United Pueblos Agency
Box 1346
Albuquerque, New Mexico
May 31, 1955

Mr. A. E. Petermann
Vice President and General Counsel
Calumet & Hecla, Inc.
122 South Michigan Ave.
Chicago 3, Ill.

Dear Mr. Petermann:

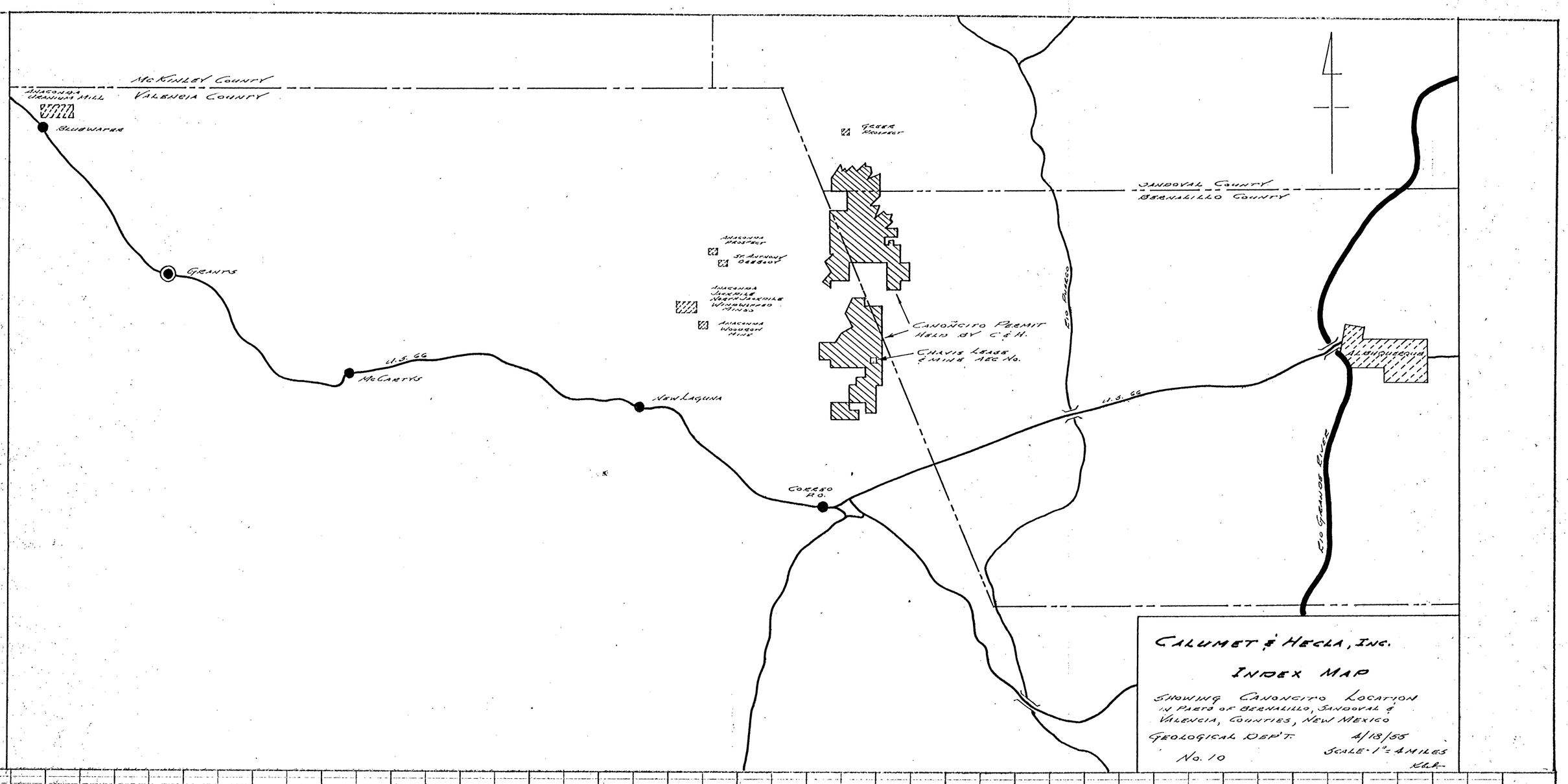
This is to acknowledge receipt of your letter dated May 19 with which you transmitted "Consent of Surety" executed by Federal Insurance Company that Bond No. 7922873 shall continue in full force and effect for the renewal period of your company's Mineral Prospecting Permit on tribal land of the Canoncito Band of the Navajo Tribe.

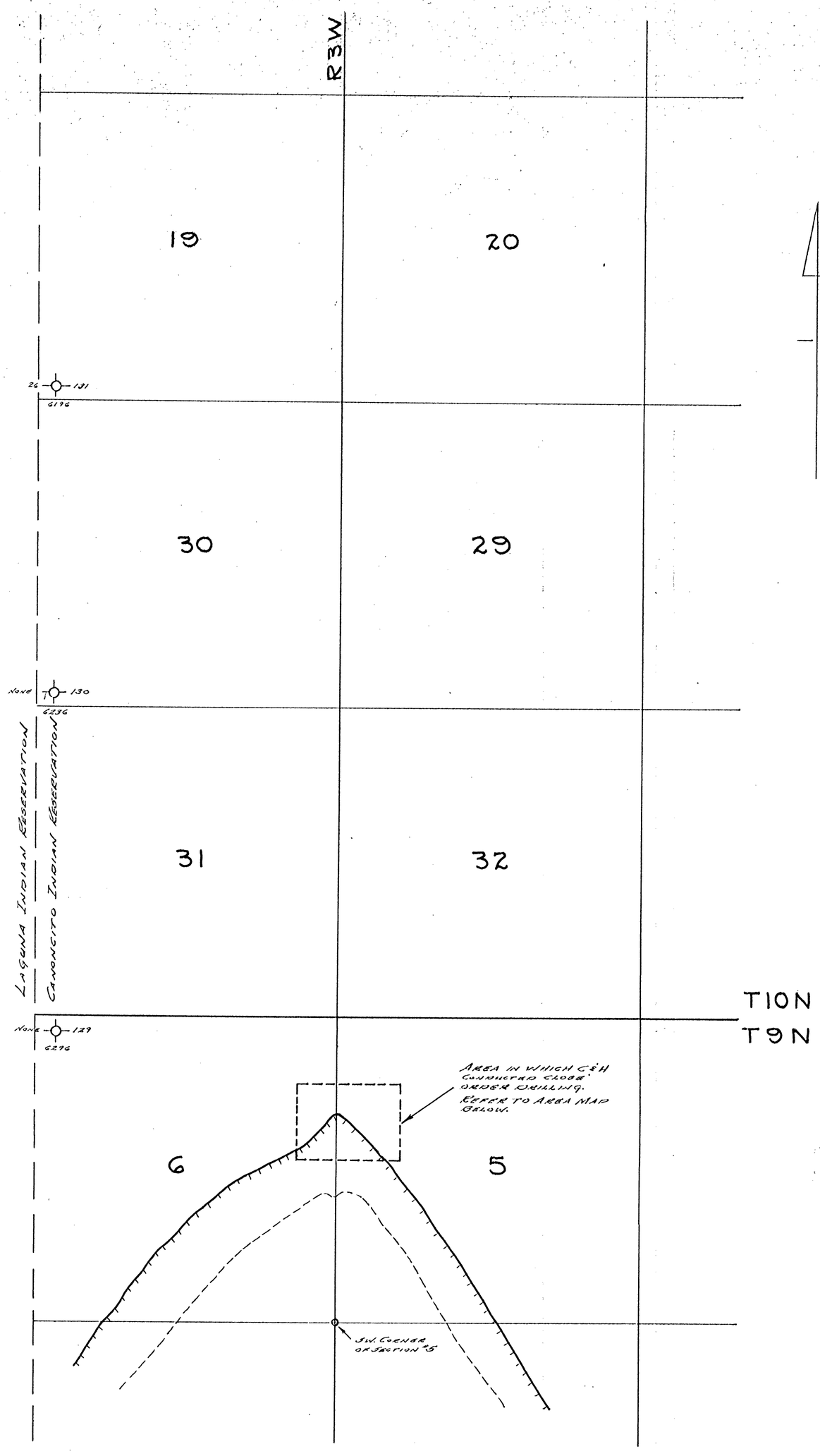
This document fulfills the Indian Office's requirement for said renewal of the prospecting permit to be effective for one year from March 8, 1955.

Sincerely yours,

/s/ Guy C. Williams

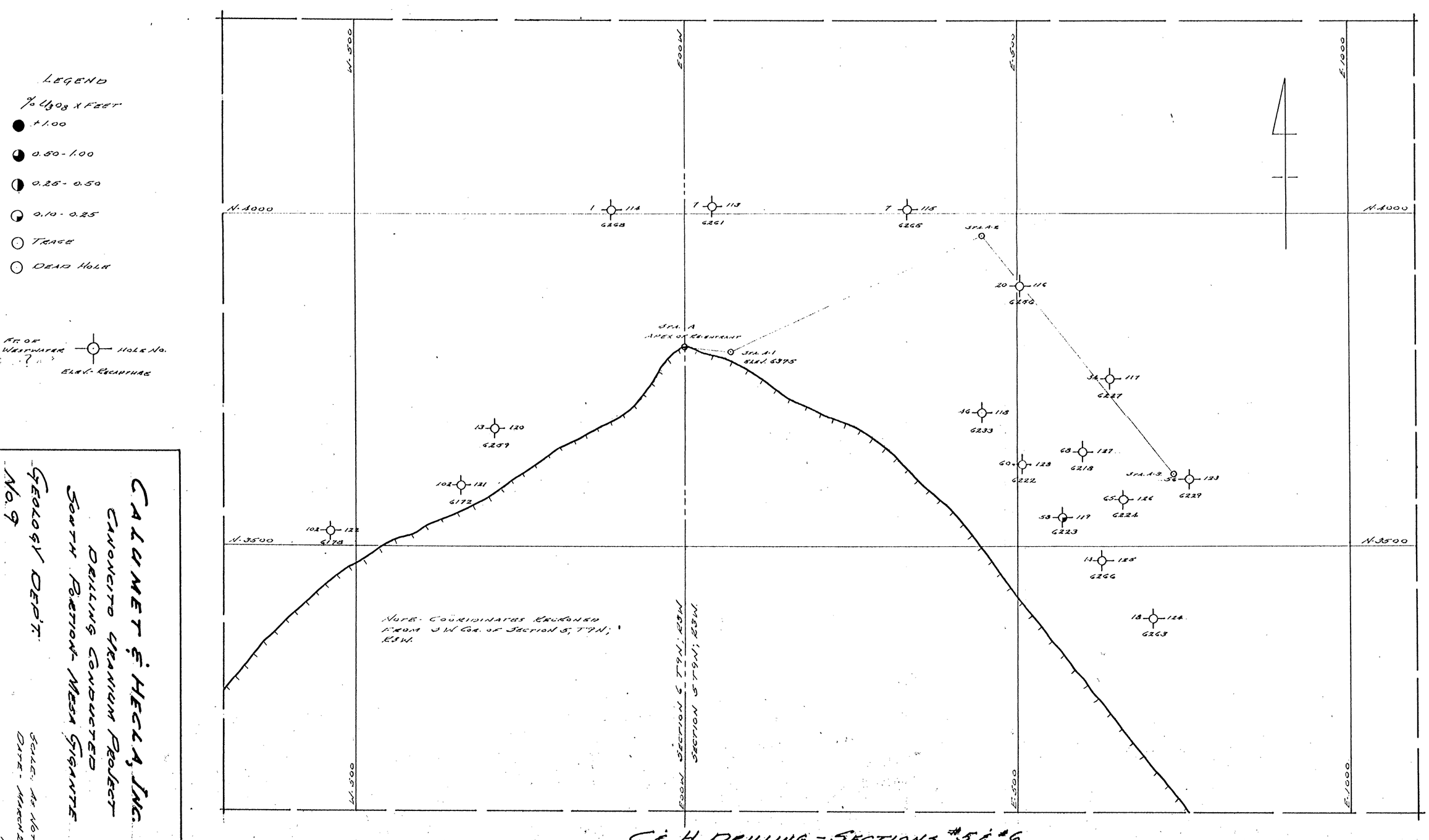
Guy C. Williams
General Superintendent


McKINLEY COUNTY
VALENCIA COUNTY
ANACONDA URANIUM MILL
GLUEWATER
GRANTS
U.S. 66
McCARTYS
NEW LAGUNA
CORRAO RD.
GEORGE PROSPECT
ANACONDA PROSPECT
ST. ANTHONY PROSPECT
ANACONDA JACKPILE NORTH JACKPILE WINGWINGED MINES
ANACONDA WOODRUFF MINE
CANONCITO PERMIT HELD BY C. & H.
CHAVIS LEASE & MINING REC No.
SANDOVAL COUNTY
BERNALILLO COUNTY
RIO PUERCO
U.S. 66
ALBUQUERQUE
RIO GRANDE RIVER
CALUMET & HECLA, INC.
INDEX MAP
SHOWING CANONCITO LOCATION
IN PARTS OF BERNALILLO, SANDOVAL &
VALENCIA, COUNTIES, NEW MEXICO
GEOLOGICAL DEP'T.
4/18/55
No. 10
SCALE: 1" = 4 MILES
K.L.P.



MAP SHOWING C&H DRILLING CONDUCTED ON SOUTH PORTION OF MESA GIGANTE

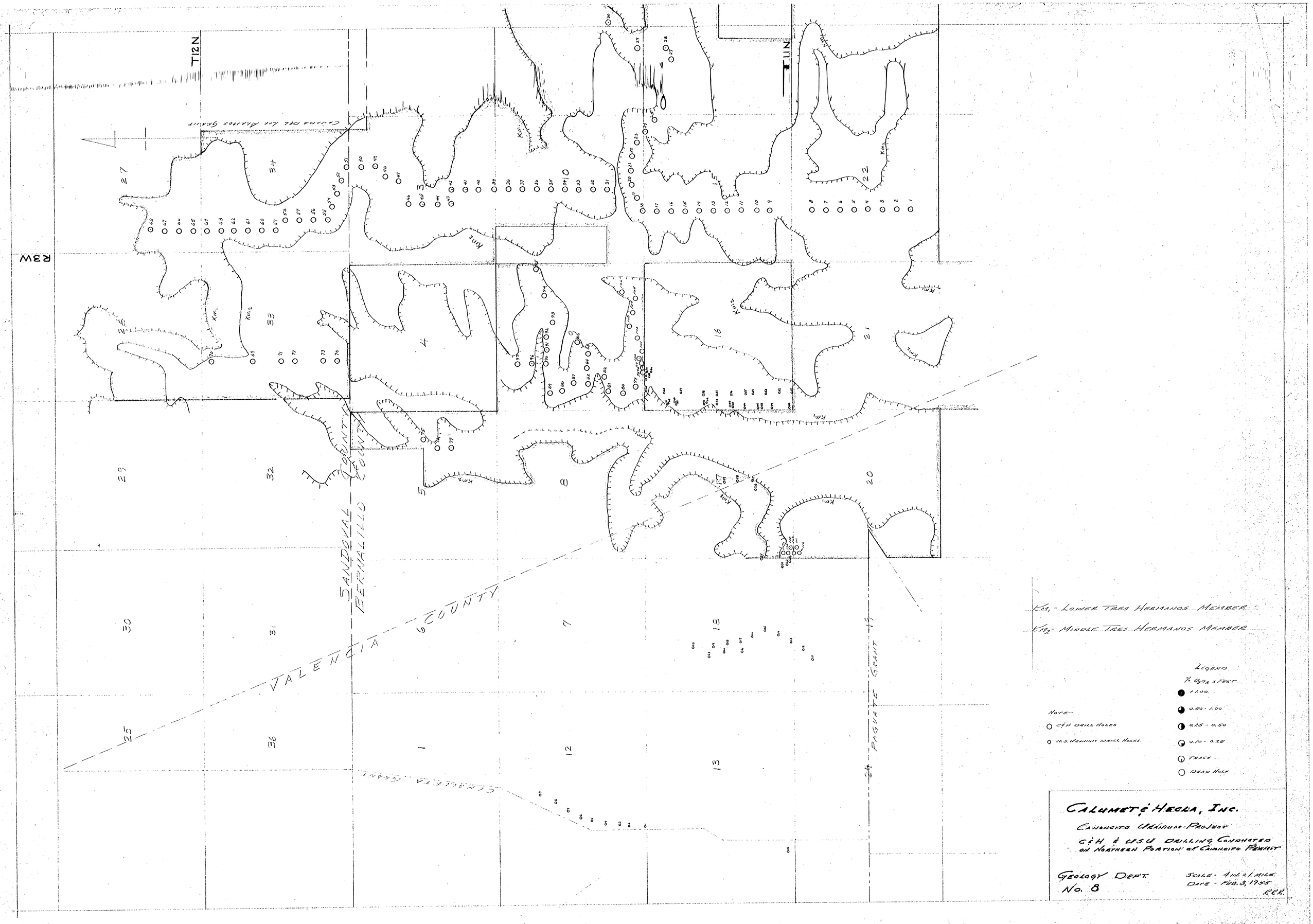
SCALE - 4 IN. = 1 MILE

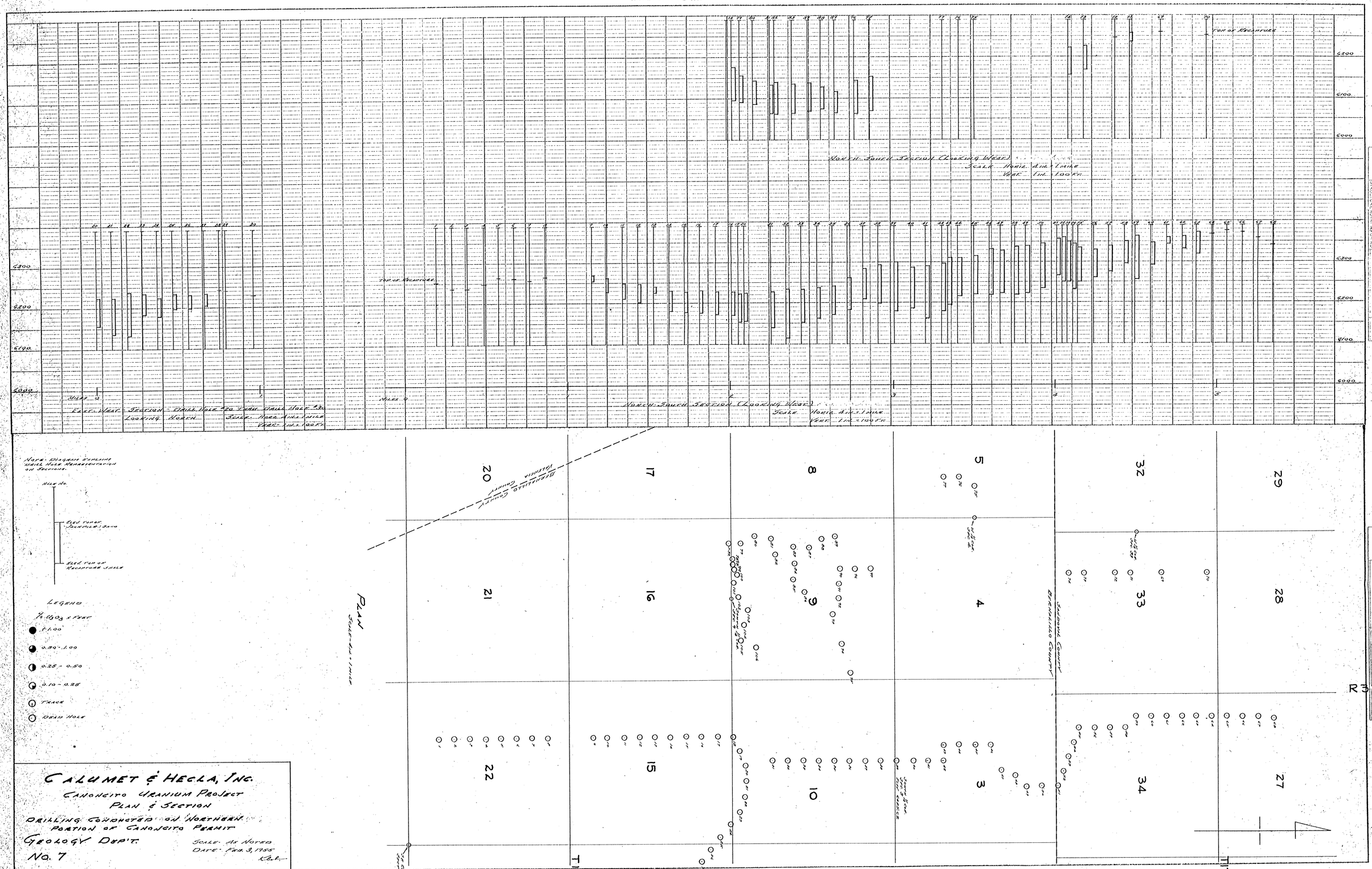


C&H DRILLING - SECTIONS #5 & #6

SCALE 1 IN. = 100 FT.

CALUMET & HECLA, INC.
CANONCITO URANIUM PROJECT
DRILLING CONDUCTED
SOUTH PORTION MESA GIGANTE
GEOLOGY DEP'T.
No. 9
SCALE: AS NOTED
DATE: MARCH, 1955


T12N
T11N
R3W
Cañada del Los Alamos Grant
Km1
Km2
SANDOVAL COUNTY
BERNALILLO COUNTY
VALENCIA COUNTY
CEBOLLETA GRANT
PAGUATE GRANT
Km1 - LOWER TRES HERMANOS MEMBER
Km2 - MIDDLE TRES HERMANOS MEMBER
LEGEND
% U3O8 x FEET
+1.00
0.50 - 1.00
0.25 - 0.50
0.10 - 0.25
TRACE
DEAD HOLE
NOTE-
C&H DRILL HOLES
U.S. URANIUM DRILL HOLES
CALUMET & HECLA, INC.
CANONCITO URANIUM PROJECT
C&H & USU DRILLING CONDUCTED ON NORTHERN PORTION OF CANONCITO PERMIT
GEOLOGY DEP'T
No. 8
SCALE - 4 in = 1 MILE
DATE - FEB. 3, 1955
RRR.



CALUMET & HECLA, INC.

CANONCITO URANIUM PROJECT

PLAN & SECTION

DRILLING CONDUCTED ON NORTHERN PORTION OF CANONCITO PERMIT

GEOLOGY DEP'T.

No. 7

SCALE: AS NOTED

DATE: FEB. 3, 1955

K.L.L.

PLATE I - PLAN-PROFILE. DR. F. A. E. STANCRAB

REPRO. A. HOOF CO. NEW YORK

PROFILE

SURVEYED

NOTE BOOK PLOTTED

NO. CALCULATED

PLANIMETERED

IN NOTES

STRUCTURE CONTOURS DRAWN

BY

DATE

PLAN

SURVEYED

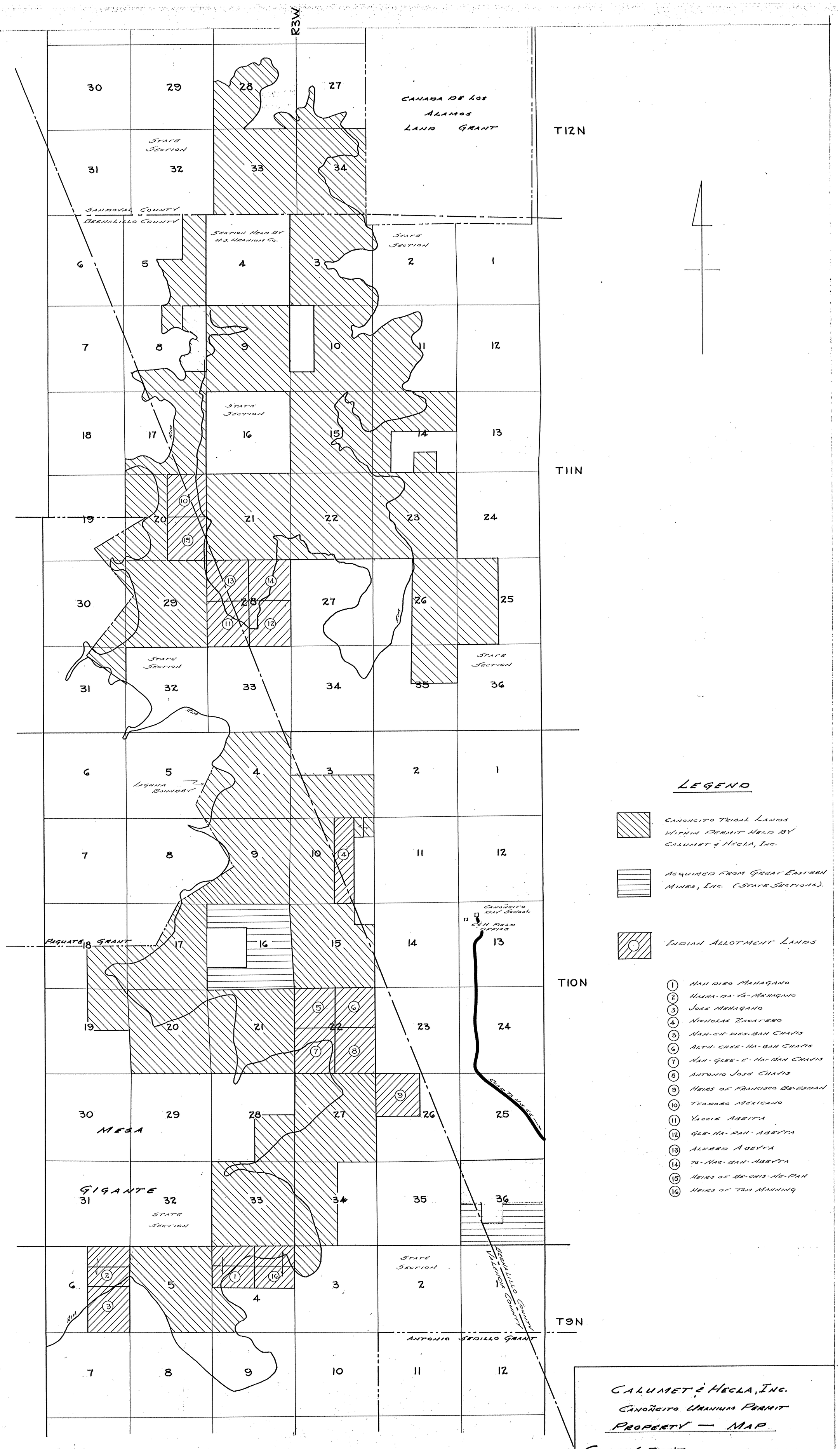
NOTE BOOK PLOTTED

NO. CALCULATED

AT ON WAY CHECKED

BY

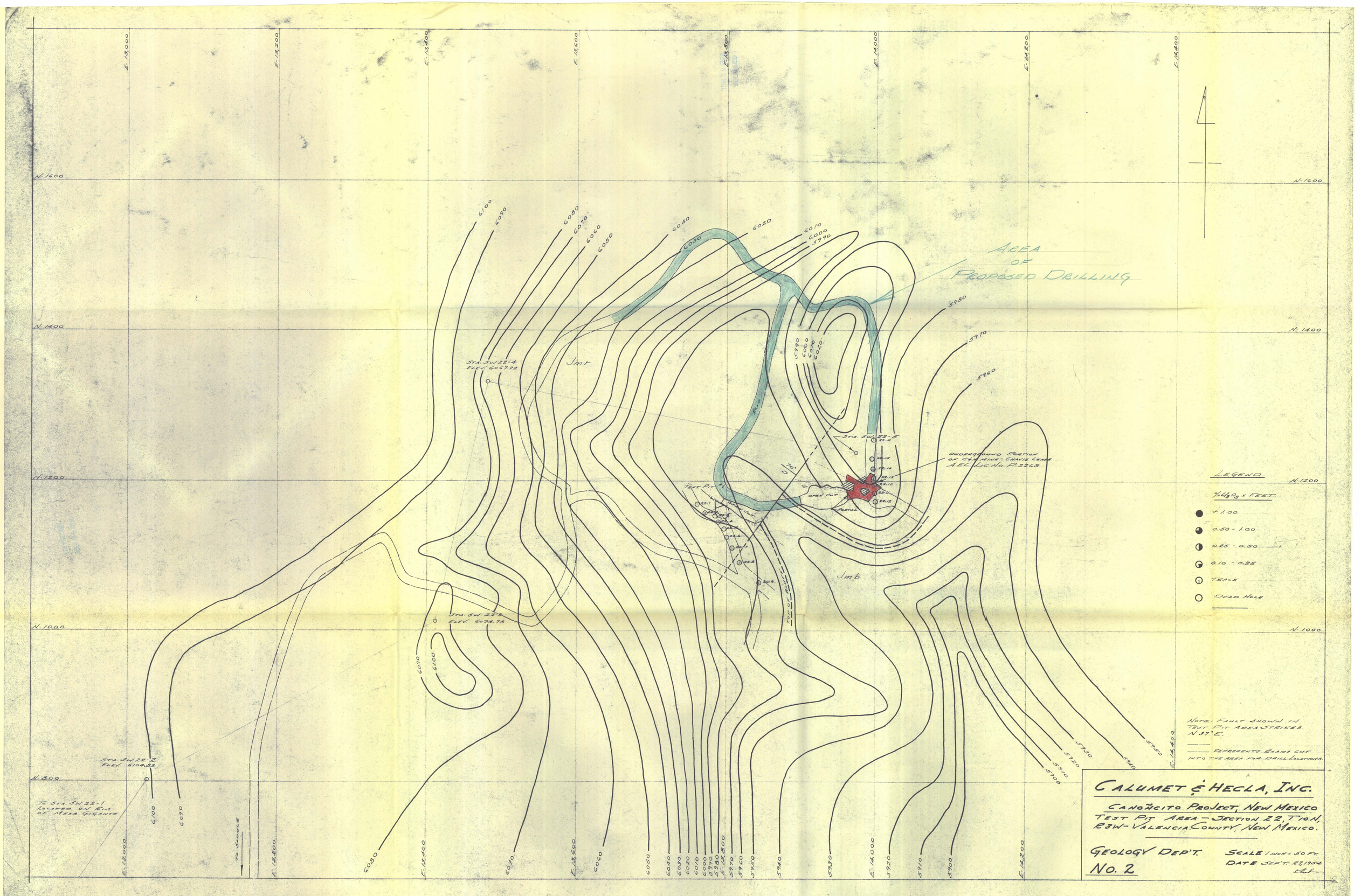
DATE

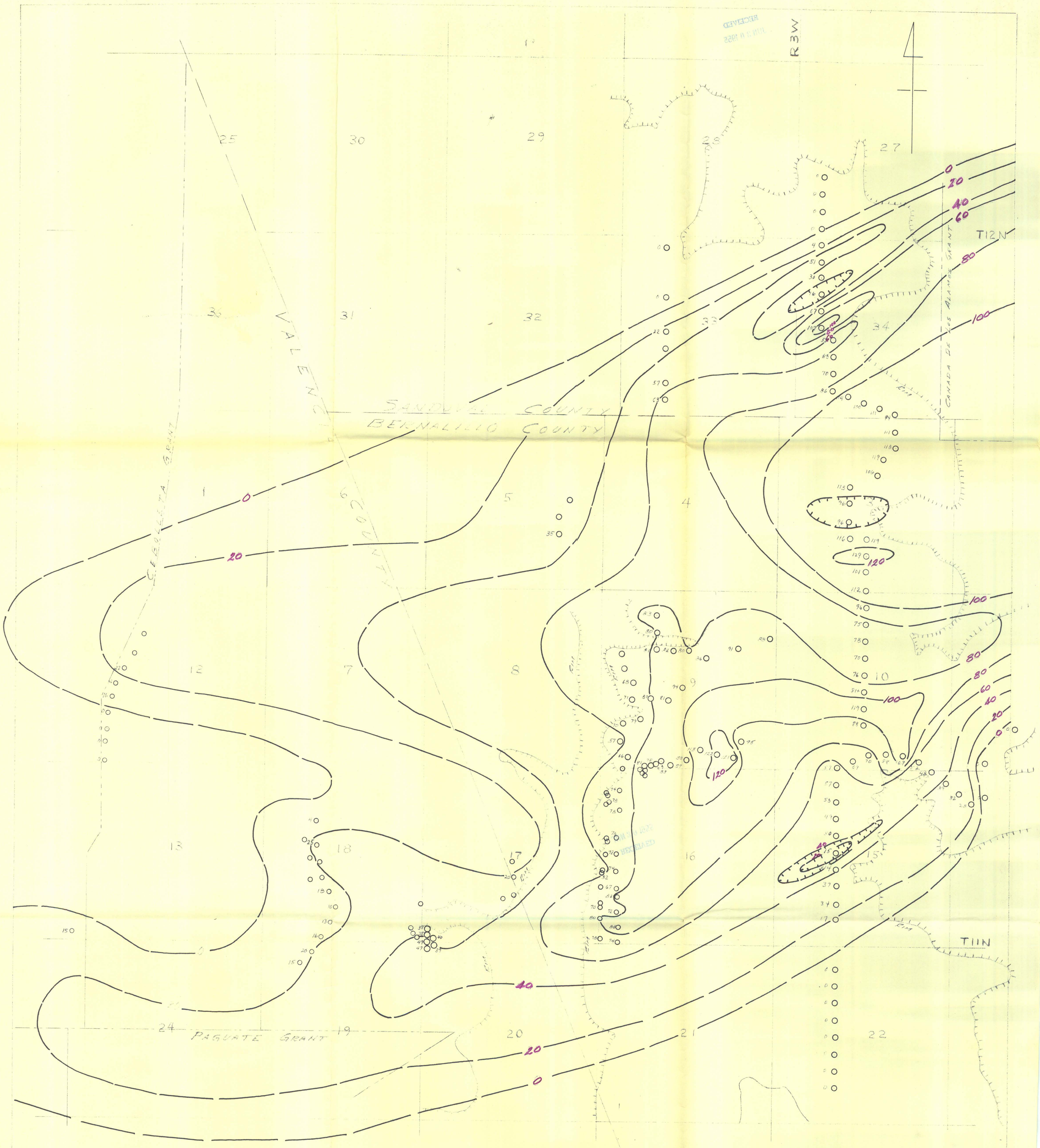


CALUMET & HECLA, INC.
CANOÑCITO URANIUM PERMIT
PROPERTY — MAP

GEOLOGY DEP'T.
No. 11

SCALE: 2IN = 1MILE
DATE: MARCH 22, 1955
ENG & ERR.


E. 13,000
E. 13,200
E. 13,400
E. 13,600
E. 13,800
E. 14,000
E. 14,200
E. 14,400
N. 1600
N. 1400
N. 1200
N. 1000
N. 800
AREA OF PROPOSED DRILLING
Jmt
Jmb
Sta SW 22-4
ELEV. 6067.72
Sta SW 22-5
Sta SW 22-3
ELEV. 6034.13
Sta SW 22-2
ELEV. 6104.33
To Sta SW 22-1 Located on Rim of Mesa Gigante
To Scale
Test Pit #1
Open Cut
Portal
Underground Portion of Calumet-Chavis Lease A.E.C. Lic. No. P-2263
LEGEND
% U_3O_8 x FEET
+1.00
0.50 - 1.00
0.25 - 0.50
0.10 - 0.25
Trace
Dead Hole
Note: Fault shown in Test Pit Area strikes N 37° E.
Represents roads cut into the area for drill locations.
CALUMET & HECLA, INC.
Canoncito Project, New Mexico
Test Pit Area — Section 22, T10N, R3W - Valencia County, New Mexico.
Geology Dep't.
No. 2
Scale 1 inch = 50 Ft.
Date Sep't. 27, 1954



—20— ISOPACH OF JACKPILE SANDSTONE

CALUMET & HECLA, INC.

CANOÑCITO URANIUM PROJECT

ISOPACH MAP - DRILLING CONDUCTED ON NORTHERN PORTION OF CANOÑCITO PERMIT

GEOLOGY DEP'T.

No. 12

SCALE - 4 IN. = 1 MILE

DATE - FEB. 3, 1955

R.R.R. & R.W.K.