DMER-[illegible]
Dolores Uranium Corp

Patented
D. Hof [illegible]

Claims Groups	Secs	T	R	
X Monument Valley ✓ (1-20)	25-26-27-34-35	44N	19 W	300'-1000'
X Red Canyon ✓ (1-23)	34-35	44	19	250'-300'
	2-3	43	19	
X Deer Valley ✓ (1-12)	35	44	19	400'-1000'
	2	43	19	
X Cedar Flat ✓ (1-24)	1-2-12	43	19	300'-1000'
	6-7	43	18	
X Faulty Flat ✓ (1-24)	16-17-21-22	43	18	300'-1000'
X Slick Rock ✓ (1-18)	25-26-35-34	44	19	
X Bush Creek ✓ (1-20)	6-7-11	43 - 18		
	12	43 - 19		

Newmont Explor. Co.

Holes	U_3O_8
1	—
2	—
3	—
4	0.0270
5	0.1070
6	—
7	—
8	Trace
9	Trace
10	0.0170
11	—
12	0.01
13	0.0278
14	Trace
15	—
16	0.36
17	Trace
18	—
19	Trace
20	Trace

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 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. 3738
Metal or Mineral Uranium, Vanadium
Date Received 3-28-55
Estimated Cost $492,492
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: Dolores Uranium Corporation, a Utah Corporation, 302 Zion's Savings Bank Building, Salt Lake City, Utah.
George Smart, President, Tooele, Utah, Melba Powell, Sec. 922 6as23rdS.
Eliot Snow, Vice President, Salt Lake City, Utah (1403 Butler Ave)

(*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 sheets

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

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

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

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

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

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. Return copy if not used

(*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.

16—66551-1

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

(*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 now days and be completed within 6 months from the date of an exploration project contract.

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

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)?

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

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

Explain in detail on acompanying paper.

CERTIFICATION

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

Dated March 24, 1955

Dolores Uranium Corporation
(Applicant)

By B. S. Powell
George Grant

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

Dolores Uranium Corporation 302 Zion's Savings Bank Bldg. Salt Lake City Utah.

Answer to #3 (a)

Legal Description

Monument Valley claims 2,3,4,5,6,7,17, and 16, T 44 N R 19 W. Sec. 27 Claims 7, 8, 9, 19, 18 and 20 lay T 44 N R 19 W Sec. 26 Claims 10, 11, 12, 13, 14, 15, lay across Sec. line 34, 35, T 44 N R 19 W.

Red Canyon claims 1, 2, 3, 8, 21, 22, 23, 20, 14, 17, 18, lay in T44 N R 19 W Sec 34, 35. Claims 4, 13, 12, and 10 lay in Summit Creek in Sec. 4, 3 and 2 and claims 9, 7, 6 and 5.

Deer Valley claims I, 2, 3, 4, 5, 6, lay in T 44 N R 19 W Sec. 35 (middle) Claims 7, 8, 9, 10, 11, 12, lay in T43 N R 19 W Sec 2 (North middle half)

Cedar Flat claims 6, 7, 15, 16, 17, 18, 19 lay in S'E' half of Sec.1 T 43 N R 19 W. Claims 1, 2, 3, 4, 10, 11, 12, 13, lay in the North center of half Sec. 12 T44 N R 19 W. Claims 1, 8, 5, 25, 24, 21, 22, Sec. 7 N'W' half T 43 N R 18 W. Claims 20, 14, 23, Sec. 6 T 43 N R 18 W.

Slick Rock claims 1, 2, 3, 7, 6. in Sec. 25 T 44 N R 19 W. Claims 4, 8, 9, 10, 11, 13, 14, 15, 16, in Sec. 26 T 44 N R 19 W. Claims 17, 18, North half middle Sec. 35 T 44 N R 19 W Claims 19, 20 in Sec 34 T 44 N R 19 W.

Bush Creek claims 15, 17, 18, 19, 20 in Sec 6 T 43 N R 18 W. Claims 6, 7, 8, 9, 10, 11, 12, 13, 4, 5, 3, in Sec 12 T 43 N R 19 W. Claims 1, 25, in Sec II T 43 N R 18 W. Claims 14 Sec 7 T 43 N R 18 W line of Sec 7.

Faulte Flat claims 1, 2, 7, 10, 11, 23, 3, 24, 3, 15, 12, 13, 29, 8, Sec 17, T 43 N R 18 W. 4, 5, 16, 17, 18, in Sec 20 T 43 N R 18 W Claim 14, Sec 18 T 43 N R 18 W. Claims 21, 22, Sec 7, T 43 N R 18 W Claims 20, 6, in Sec. 8 T 43 N R 18 W.

Dolores Uranium Corporation, 302 Zion's Savings Bank Bldg. Salt Lake City Utah.

Answer to #3 (f)

Book and Page Number for each recorded location. San Miguel County Telluride, Colorado.
Mounment Valley claims: 1-20
Filed under circular 7 Filed March 15, 1954
Book 230 Page 310
Filed Feb 17, 1954
Book 228 Page 499
Amended location
Book 240 Page 105-124

Red Canyon claims 1-23
Filed under circular 7
Book 230 Page 330-352
Filed Feb. 17, 1954
Book 228, Page 500-519
Deer Valley claims: 1-12
Filed under circular 7 March 15, 1954
Book 230 Page 274
Filed Feb 17, 1954
Book 228 Page 525-531
Amended location notice
Book 240 Page 148-159

Cedar Flat claims 1-24
March 15, 1954
Book 230 Page 2[illegible]-328
Book 228 Page 479
Book 240 Page 160

Slick Rock Claims 1-18
Book 240 Page 228-245
Book 229 Page 463-464
Book 235 Page 351-355

Bush Creek 1-20
Book 240 Page 227-308
Book 235 Page 380-399

Faulte Flat 1-24
Book 230 Page 353-376
Book 228 Page 532-546
Book 240 Page 184-207

Dolores Uranium Corporation, 302 Zion's Savings Bank Bldg. Salt Lake City, Utah

Answer #4 (a)

Dolores Uranium Corporation has built roads on all of its property through Summit Canyon. On the east and west sides of the canyon.

Newmont Exploration Limited has drilled for us approximately 30,000 feet of drilling on claims known as Red Canyon claims 20, 3, 2, 1, 11 16, 8 and 9. The holes are from 275 to 700 feet in depth.

Bush Creek has a road on both sides of the canyon. We plan on a road being built up the bottom of Bush Creek to save from 200 to 400 feet of deep drilling. It will take a small amoun t of work to buld roads to the drilling sites, from the main road we have already constructed. We have built roads into Blue Canyon and Morrison Canyon in Section 17, 18, 19, and 20 T 43 N R 18 W. $5200 will build the roads into this. We have spent $23000.00 in Bush and Summit Creek in building exploration work there.

(b) Accompanying maps will show some ore, but the amount is undetermined.

(c) We think that across the Dolores Anticline and across the faults we will uncover bodies of ore.

(d) We are 25 miles North of Dove Creek, Colo. on Colorado Highway 80 We are 50 miles Northeast of the Monticello Mill; and 45 miles southea of Naturita Mill. We have a camp located on the property now, trailer and large gas tank and supplies

(e) We can get plenty of man power in this area. Materials and supplies are plentiful. We have in the corporation possession a TD 18 Bull Dozer and compressor. We have two drills available to rent and water trucks to do this drilling; and option to purchase out right these drills and trucks We have water close to the property.

Answer to #5. (a)

Uranium and Vanadium.

(b) The proposed work and maps etc. are attached.

(c) The work will start immediately and will be completed 6 months after your approval of the loan.

(d) The manager of said company has been doing construction work for 10 years. He owned about $450,000.00 of construction equipment in building roads, excavation etc. He has had 20 years mining experience 5 years of above time was hard rock mining and 15 years as a mine operator, dept. of supervisor and all types of supervising work.

Attached is the background of the geologist who will assist.

Answer to #6

Dolores Uranium Corporation 302 Zion's Savings Bank Bldg. Salt Lake City, Utah.

Answer #6

We propose to do this drilling program with money that we will get from this loan. We will furnish the required amount for our share.

(b) The following are a list of rates that we will pay: Truck drivers 1.25 per hours. Drill helpers $1.50 per hour. Drillers $2.50 per hour. Bull dozer operators $2.00 per hour. Labor $1.00 per hour Supervisors $600.00 per month. Geologist $600.00 per month.

(c) Operating materials and supplies willbe furnished by contractor and labor also will be furnished.

(d) operating equipment furnished by contractor.

(e) Rehabilitation and repairs will come out of contracted price of drilling.

(f) There will be no building improvements or installatinns on this contract.

(g) These men will work according to National Labor law contract and wage deduutions and taxes, insurance and liability and payroll deductions taken out.

Answer #7

(a) We are prepared to furnish our share of the cost of proposed project in accordance with the regulations on government applications section 7 DMEA No.I.

(b) We propose to furnish a bull dozer to build roads; two drills; two water trucks with all supplies necessary; to carry out drilling program; at our cost of supplies under a contract footage basis, to do this drilling.

Leland J. Davis
office 22-2516
home 8-1863

DAVIS and DAVIS

Consulting Geologists

351 SOUTH STATE
SALT LAKE CITY, UTAH

H. Clyde Davis
office 22-2516
home 87-1260

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1955

March 8, 1955

Dolores Uranium Corporation
302 Zion's Savings Bank
Salt Lake City, Utah.

To Whom It May Concern:

The following is the background of Leland J. Davis, Consulting Geologist, who will be in charge of all geological work and drilling for the Dolores Mining Company:

Mr. Leland J. Davis is a Consulting Geologist of Salt Lake City, Utah. He is a graduate of Brigham Young University with a B. S. degree in chemistry and an M. S. degree in geology. He has also had one year of graduate work on his Doctor's degree in geology at the University of Utah. Mr. Davis recently resigned from a geological position with one of the major oil companies. Prior to his work with this oil company, Mr. Davis was, himself, active in mining uranium on the Colorado Plateau.

Very truly yours,

Leland J. Davis
Leland J. Davis
Consulting Geologist

LJD/b

Delores Uranium Corporation 302 Zion's Savings Bank Bldg.
Salt Lake City, Utah.

Leland J. Davis
office 22-2516
home 8-1863

DAVIS and DAVIS

Consulting Geologists

351 SOUTH STATE
SALT LAKE CITY, UTAH

H. Clyde Davis
office 22-2516
home 87-1260

March 8, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1955

Delores Uranium Company
Salt Lake City, Utah

Gentlemen:

At your request the following is a proposed exploration program on your claims.

From field examination of your property the accompanying map was prepared showing the proposed drill site locations on your claims. The drill spacing on these claims will depend upon the amount of mineralization noted in the drilling. The proposed drilling outline could be altered slightly if and when mineralization is encountered.

Drilling depths to the possible uranium mineralized zone to the base of the Shinarump conglomerate or the top of the Cutler formation will range from 250 to 1,000 feet depending upon drill site location.

Eighty-three drill sites are recommended as noted on the accompanying map.

Total drilling - - - - - 56,100 feet
Total plug drilling - - - - - $201,655.00
Total core drilling - - - - - $217,375.00

Plug Drilling

0 to 200 feet	------	$1.75	a foot
201 to 300 feet	------	2.00	a foot
301 to 400 feet	------	3.25	a foot
401 to 500 feet	------	4.00	a foot
501 to 1,000 "	------	4.50	a foot

Core Drilling

0 to 200 feet	------	$2.50	a foot
201 to 300 feet	------	3.00	a foot
301 to 400 feet	------	3.50	a foot
401 to 500 feet	------	4.20	a foot
501 to 600 feet	------	5.10	a foot
601 to 1,000 "	------	5.50	a foot

Dolores Uranium Corporation 302 Zion's Savings Bank Bldg.
Salt Lake City, Utah.

Enclosed herewith are tables which outline the drilling on the company's claims.

Very truly yours,

Leland J. Davis

Leland J. Davis
Consulting Geologist

LJD/b

Enc.

Dolores Uranium Corporation 302 Zion's Savings Bank Bdlg.
Salt Lake City, Utah

Leland J. Davis
office 22-2516
home 8-1863

DAVIS and DAVIS

Consulting Geologists

351 SOUTH STATE
SALT LAKE CITY, UTAH

Clyde Davis
office 22-2516
home 87-1260

March 8, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1955

Dolores Uranium Company
Salt Lake City, Utah

Gentlemen:

The following is a geological appraisal of your properties in the Slick Rock Mining District, San Miguel County, Colorado. This property consists of 117 mining claims. They have been broken down into the Monument Valley group, Red Canyon group, Deer Valley group, Cedar Flat group, and Double Flat group, Slick Rock group and Bush Creek group.

Location

The Monument Valley group of claims are located near the mouth of Summit Canyon in Sections 25, 30, 27, 26 and 35, Township 44 North, Range 19 West. The Red Canyon group are located near the mouth of Stevens Canyon along Summit Creek Canyon in Sections 36 and 35 of Township 44 North, Range 19 West, and Sections 5 and 8, Township 43 North, Range 19 West. The Deer Valley group are located on the east side of Summit Canyon across from the mouth east of Stevens Canyon in Sections 30, Township 44 North, Range 19 West, and Section 8, Township 43 North, Range 19 West. The Cedar Flat group are located in Sections 1, 2 and 12, Township 43 North, Range 19 West, and Sections 6 and 7, Township 43 North, Range 18 West, just east of the main Ferns, Slick Rock road, two miles south of Slick Rock. The Double Flat group are located in Corrison Canyon and Blue Canyon in an unsurveyed area of approximately Sections 16 and 17, 21 and 22, Township 43 North, Range 19 West.

The Monument Valley and Red Canyon groups are accessible by way of a newly constructed bulldozer road extending through the entire limits of Summit Canyon where considerable drilling has taken place by Phet Oil Company and Newmont Mining Company. Roads will have to be constructed onto the Deer Valley group for drilling. Part of the Cedar Flat group are accessible, and roads will have to be built into Corrison and Blue Canyon for access to drilling on these claims. The main highway between Dove Creek and Naturita, Colorado extends through the center of these properties.

Geology

Stratigraphy: The possible mineralized zone is a greenish-gray sandstone and siltstone unit in the lower part of the Chinle formation of Triassic age called the Shinarump conglomerate. This mineralized zone lies unconformably on the Permian Cutler formation. The lithology of the Shinarump conglomerate suggests a floodplain depositional environment where fine sediments were laid down in meandering streams, oxbow lakes, and stagnant swamps, where a considerable amount of organic material such as fossil-wood has been preserved and later was replaced with uranium mineralization. The Shinarump conglomerate is overlaid by the Chinle, Wingate, Kayenta and Navajo formations which form large benches and cliffs in the area.

Structure: The main structural feature in this area is the Dolores anticline. It is an asymmetrical structure with gently dipping beds to the south and steeply dipping beds to the north. A zone of en echelon faulting occurs parallel to the anticlinal axis on the north side near the crest of the structure. The dislocations are all simple, normal faults with the down-thrown side to the north.

Origin of the structural pattern occurred either late in the Mississippian or early in the Pennsylvanian periods. This folding determined the northwest-southeast structural trend in this area.

Drilling Depths

Drilling depths to explore the mineralized zone near the base of the Chinle or Shinarump conglomerate on the Monument Valley group of claims will range from 800 to 1,000 feet, depending upon drill site location. In the bottom of Summit Creek the drilling depths will be the shallowest.

Drilling depths on the Red Canyon group will range from 250 to 500 feet in the bottom of Summit Creek, depending upon drill site location. Drilling depths on the Deer Valley group will range from 400 to 1,000 feet, and on the Cedar Flat group drilling depths will range from 350 to 1,000 feet with shallowest drilling in the bottoms of the canyons. Drilling depths on the Faulte Flat group will range from 350 to 1,000 feet, depending upon drill site location.

Ore Deposits

The ore deposits are lenticular to massive, irregular bodies in the Shinarump or the lower part of the Chinle formation as found in the Big Indian Mining District in Utah.

Hydrothermal solutions originating in the intrusions of the Lasal, Abajo Mountains and the Uravan Mineral Belt during early Tertiary time may have been responsible for the development of the ore bodies and mineralization in the Chinle or Shinarump conglomerate and other formations of this area. The faulting near the crest of the Dolores anticline could act as a very good conduit for mineralization in formations above, such as the Shinarump and Morrison formations.

The Morrison formation is very well mineralized in this area, and several thousands of tons of commercial uranium and vanadium ore have been mined from the Salt Wash member of the Morrison which could possibly have been mineralized from hydrothermal solutions and gases from below.

Conclusions

This property is staked on the assumption that the Shinarump conglomerate or lower Chinle occurs in this area. From recent drilling by Hunt Oil Company and Newmont Mining Company in Summit Canyon, information obtained from Hunt Oil Company personnel and cores of Newmont Mining Company shows definite evidence of the Shinarump or basal Chinle existing in this area. Mining is underway on properties along the outcrop of the Shinarump conglomerate or basal Chinle and along the Dolores River where the river cuts through the Dolores anticline about four miles southeast of these properties owned by the Dolores Uranium Company. This outcrop is mineralized with uranium and the Shinarump conglomerate or basal Chinle is very well developed in regards to favorable channel sands along the Dolores River.

There are a considerable number of faults on the property as noted on the enclosed map which could act as conduits for mineralization in the Shinarump or higher formations in this area.

I feel that this property is geologically situated in an area that is very favorable for uranium mineralization, and has a great potential of producing large ore bodies if the Shinarump conglomerate or basal Chinle is mineralized under these properties. Through a well organized drilling program only can this property be tested.

Very truly yours,

Leland J. Davis

Leland J. Davis
Consulting Geologist

LJD/b

Dolores Uranium Corporation 302 Zion's Savings Bank Bldg.
Salt Lake City, Utah.

Plug Drilling

Claims	No.	Holes	Foot	Price	Total Price	Total Feet
Red Canyon	4	3	250	475.00	1,425.00	750
	13	3	250	675.00	1,425.00	750
	13	3	250	675.00	1,425.00	750
	10	3	250	675.00	1,425.00	750
	9	3	200	600.00	1,800.00	600
	14	3	700	3,025.00	9,075.00	2100
	17	3	750	3,450.00	6,900.00	1500
	19	3	600	3,675.00	9,025.00	2600
Monument Valley	1	1	800	3,075.00	3,075.00	800
	3 & 3	3	900	3,125.00	9,250.00	1800
	9	1	900	3,125.00	3,125.00	900
	10	1	900	3,125.00	3,125.00	900
	15	1	950	3,345.00	3,345.00	950
	16	1	950	3,345.00	3,345.00	950
	16	1	800	3,075.00	3,075.00	800
	17	1	800	3,075.00	3,075.00	800
	18	3	800	3,075.00	5,800.00	800
	19	1	950	3,345.00	3,345.00	950
Black Rock	3	1	900	3,125.00	3,125.00	900
	5	1	800	3,000.00	3,000.00	800
	9	1	950	3,345.00	3,345.00	950
	10	1	950	3,345.00	3,345.00	950
	13	1	900	3,125.00	3,125.00	900
Bear Valley	1	1	800	3,075.00	3,075.00	800
	8	1	800	3,075.00	3,075.00	800
	7	3	800	3,075.00	5,800.00	1600
	9	1	800	3,075.00	3,075.00	800
	10	1	800	3,075.00	3,075.00	800
	11	1	800	3,075.00	3,075.00	800
Cedar Flat	1	1	700	3,225.00	3,225.00	700
	3	1	800	3,075.00	3,075.00	800
	5	1	800	3,075.00	3,075.00	800
	10	1	900	3,125.00	3,125.00	900
	9	1	800	3,075.00	3,075.00	800
	6	3	900	3,125.00	9,250.00	900
	10	1	950	3,345.00	3,345.00	950
	11	3	700	3,225.00	6,450.00	700
	12	3	700	3,225.00	6,450.00	700
	21	1	700	3,225.00	3,225.00	700

DEPT. OF THE INTERIOR
Minerals Administration
RECEIVED
MAR 28 1955

Delores Uranium Corporation 302 Zion's Savings Bank Bldg.
Salt Lake City, Utah

Claims	No.	Holes	Feet	Price	Total Price	Total Feet
	20	1	700	2,225.00	2,225.00	700
	25	1	600	2,075.00	2,075.00	600
Bush Creek	7	1	600	2,075.00	2,075.00	600
	8	1	700	2,225.00	2,225.00	700
	8	1	600	2,075.00	2,075.00	600
	9	1	700	2,225.00	2,225.00	700
	10	2	700	2,225.00	4,450.00	700
	11	1	700	2,225.00	2,225.00	700
	15	1	600	2,075.00	2,075.00	600
	16	3	700	2,225.00	6,675.00	700
Faulty Flat	1	1	700	2,225.00	2,225.00	700
	2	1	700	2,225.00	2,225.00	700
	3	1	700	2,225.00	2,225.00	700
	4	1	700	2,225.00	2,225.00	700
	25	1	700	2,225.00	2,225.00	700
	6	1	700	2,225.00	2,225.00	700
	8	2	700	2,225.00	4,450.00	700
	9	1	700	2,225.00	2,225.00	700
	9	1	600	2,075.00	2,075.00	600
	13	2	600	2,075.00	4,150.00	600
RED CANYON	23	3	900	3,125.00	9,375.50	2700
	21	1	900	3,125.00	3,125.00	900
	23	1	850	2,900.00	2,900.00	850
	22	1	900	3,125.00	3,125.00	900

Dolores Uranium Corporation 302 Zion's Savings Bank Bldg.
Salt Lake City, Utah

Plugging and Coring Drilling

Claims	No. Holes	Feet of Hole	Feet Coring	Price of Plugging and Coring	Total Price of Plugging and Coring	Total Feet
Red Canyon	4	5	250	50	0,605.00	1,305.00	750
	15	5	250	50	605.00	1,305.00	750
	12	5	250	50	605.00	1,305.00	750
	10	5	250	50	605.00	1,305.00	750
	9	8	500	50	020.00	1,000.00	000
	16	5	700	50	0,075.00	0,725.00	2100
	17	8	750	50	3,500.00	5,000.00	1500
	10	5	500	50	0,720.00	0,170.00	2000
Monument Valley	1	1	000	50	0,725.00	0,925.00	000
	2	1	000	50	0,075.00	0,075.00	000
	3	1	000	50	0,075.00	0,075.00	000
	9	1	000	50	0,075.00	0,075.00	000
	10	1	000	50	0,075.00	0,075.00	000
	18	1	000	50	0,050.00	0,000.00	000
	15	1	000	50	0,050.00	0,000.00	000
	10	1	000	50	0,725.00	0,725.00	000
	8	1	000	50	0,725.00	0,725.00	000
	10	1	000	50	0,725.00	0,450.00	000
	10	1	000	50	0,050.00	0,050.00	000
Slick Rock	3	1	000	50	0,075.00	0,075.00	000
	5	1	000	50	0,050.00	0,050.00	000
	9	1	000	50	0,050.00	0,050.00	000
	20	1	000	50	0,500.00	0,050.00	000
	10	1	000	50	0,075.00	0,075.00	000
Deer Valley	1	1	000	50	0,725.00	0,725.00	000
	2	1	000	50	0,725.00	0,725.00	000
	7	2	000	50	0,725.00	5,450.00	1000
	8	1	000	50	0,725.00	0,725.00	000
	10	1	000	50	0,725.00	0,725.00	000
	11	1	000	50	0,725.00	0,725.00	000
Cedar Plot	1	1	700	50	0,075.00	0,075.00	700
	2	1	000	50	0,725.00	0,725.00	000
	5	1	000	50	0,725.00	0,725.00	000
	10	1	000	50	0,075.00	0,075.00	000
	8	1	000	50	0,725.00	0,725.00	000
	6	2	000	50	0,075.00	0,050.00	1000
	15	1	000	50	0,050.00	0,050.00	000
	11	2	700	50	0,075.00	0,550.00	1000

Dolores Uranium Corporation 302 Zion's Savings Bank Bldg.
Salt Lake City, Utah

Claims	No.	Holes	Feet of Hole	Feet Coring	Price of Plugging and Coring	Total Price of Plugging and Coring	Total Feet
	12	2	700	50	2,275.00	4,550.00	1400
	21	1	700	50	2,275.00	2,275.00	700
	20	1	700	50	2,275.00	2,275.00	700
	25	1	800	50	2,725.00	2,725.00	800
Bush Creek	7	1	800	50	2,725.00	2,725.00	800
	8	1	700	50	2,725.00	2,725.00	800
	8	1	800	50	2,725.00	2,725.00	800
	9	1	700	50	2,275.00	2,275.00	700
	10	2	700	50	2,275.00	4,550.00	1400
	11	1	700	50	2,275.00	2,275.00	700
	15	1	800	50	2,725.00	2,725.00	800
	16	3	700	50	2,275.00	6,725.00	2100
Faulty Flat	1	1	700	50	2,275.00	2,275.00	700
	2	1	700	50	2,275.00	2,275.00	700
	3	1	700	50	2,275.00	2,275.00	700
	4	1	700	50	2,275.00	2,275.00	700
	24	1	700	50	2,275.00	2,275.00	700
	6	1	700	50	2,275.00	2,275.00	700
	8	2	700	50	2,275.00	4,550.00	1400
	9	1	700	50	2,275.00	2,275.00	700
	9	1	800	50	2,725.00	2,725.00	800
	13	2	800	50	2,725.00	5,450.00	1600
Red Canyon	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	23	3	900	50	3,275,00	9,725,00	2700
	21	I	900	50	3,275.00	3,275.00	900
	23	I	850	50	3,000.00	3,000.00	850
	22	I	900	50	3,275.00	3,275.00	900

Dolores Uranium Corporation
302 Zion's Savings Bank Bdlg.
Salt Lake City, Utah.

DIAMOND DRILLING AGREEMENT

THIS AGREEMENT, made and entered into in duplicate as of _____, 1955, by and between Dolores Drilling Company, a corporation organized and existing under the laws of the State of Utah with its principal place of business at 302 Zion's Savings Bank Building, Salt Lake City, Utah, and Dolores Uranium Company 922 South 23rd. East Street of the city of Salt Lake in the state of Utah.

WITNESSETH THAT, the parties hereto do mutually agree as follows:

R E C I T A L S

Dolores Drilling Company is the owner of drilling equipment to carry on what is known as Diamond Drilling/Wagon Drilling for vanadium and uranium ores. Dolores Uranium Corporation owns or has legal possession to those certain mining claims in San Maguil, County, State of Colorado, generally described as follows:

SUMMIT CREEK CLAIMS

In consideration of the payments to be made by the Dolores Uranium Corporation to Dolores Drilling Company, Dolores Drilling Company agrees:

1. To drill BX cores at rates shown below;

Non Core Depth	Non Core Feet	Core Depth	Core Feet
0-200	$1.75	0-200	$2.50
201-300	2.50	201-300	2.90
301-400	3.25	301-400	3.65
401-500	4.00	401-500	4.25
		501-600	5.00

2. To ream and case below plug bit depth for each hole at the rate of $2.50 per foot;

3. To deliver to Dolores Uranium Corporation cut samples with accurate log of each hole;

4. To permit Dolores Uranium Corporation at all times to inspect and copy records and to observe all drilling operations;

5. To sustain each and all costs and expenses in connection with such drilling and to carry on such operations steadily and continuously unless prevented by cause beyond its control;

6. Standby time: Probing, waiting for drill sites, etc. $12.00 per hour.

For the covenants agreed to be performed by Dolores Drilling Company, Dolores Uranium Corporation guarantees to Dolores Drilling Company a minimum of _____ feet of drilling; to specify locations where holes are to be drilled; to provide access roads to such location, if required by Dolores Drilling Company for the movement of its equipment; to pay to Dolores Drilling Company the amount due it as determined by its drilling records, on or before the 10th of the month following the month during which the work was performed, from an Escrow Account in the _____ bank at Salt Lake City, Utah.

Dolores Drilling Company

By_____

Dolores Uranium Corporation

By_____

C O P Y

MINERALS ENGINEERING COMPANY

P. O. Box 1951

Grand Junction, Colorado

March 15, 1955

Colorado Minerals Administration
RECEIVED
MAR 28 1955

Dolores Uranium Corp.
302 Zion's Savings Bank
Salt Lake City, Utah.

Mr. B.G. Powell
922 Sauth 23rd. East St.
Salt Lake City. Utah

Dear Mr. Powell:

Pursuant to your conversation with our Mr. Howard Perry on March 14, 1955, please accept the following as our bid for 50,000 feet total minimum core drilling in the Slickrock Area:

NON CORE:

0- 200 feet	$2.00 per foot
200-400 feet	2.65 per foot
400-600 feet	3.65 per foot
600-800 feet	4.35 per foot

CORE:

0-200 feet	$2.65 per foot
200-400 feet	3.35 per foot
400-600 feet	4.60 per foot
600-800 feet	5.75 per foot
800-900 feet	6.75 per foot

We will also have a charge for stand-by time of $12.00 per hour.

It is our understanding that you would have all access roads and drill sites maintained for 2-wheel vehicles.

We can begin drilling operations within 15 days of notice of acceptance of this bid.

Yours very truly,

Minerals Engineering Company

(s) Edson Foster

Assistant Drill Superintendent

DOLORES URANIUM COMPANY
922 SOUTH TWENTY-THIRD EAST
SALT LAKE CITY, UTAH

B. G. POWELL
PRESIDENT & GEN. MGR.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1955

No 6

We do not know just how far & how much money the Covernment will lend to ward all expences on all the work will list all it will take & time to do the work depends on working kindisoings It may take four counth & May take six Depending on drilling condishings

List

Geologest 600.00 per Month if six months	$3600.00
Supervising 600.00 " " " "	$3600.00
Core Boxes 50 @ 10.00 Each	$ 500.00
Bulldozer & Building cane roads @ 850 Hours @ $12.50 Per Hour	$10.625.00
Compressor Dentoal per Month 105 Gardner Denver $ 265.00 Per Month for four months	$1060.00
Radioctivity _ Electric loging holes $ 2400.00 Per Month 4 Months	$2.400.00
Truck To transport drill core to lab Gas & Oil $400.00 Per Month	$400.00
Powder & Supplys $546.00	$ 546.00
If all Plug Drilling will cost for 56.100 feet $201,655.00	$36,731.00
If Core 50 Feet & Plug all rest 56.100 Feet $217.375.00	

No 1

Plug Drilling	$201,655.00
Miscellanio	$ 36,731.00
	$238,386.00

No 2

Plug & Core Drill	$217,375.00
	$ 36,731.00
	$254,106.00

We dont know how much the goverment will alow on expences as we have listed here but we may have to put up more of the expences listed here

Very Truly

B G Powell

B.G. Powell Gen Manager

DMEA Form 7
(12-56)

OFFICIAL FILE COPY

Date	Surname	Code
12/31	Murphy Ellis	700
1/2	Wednesday	100
		225

DMEA-3738

December 31, 1957

Memorandum

To: The Administrator

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

Subject: Docket No. DMEA-3628 (Uranium)
Hamilton, et al., and Simpson Mining Company
Docket No. DMEA-3738, Dolores Uranium
Corporation (Uranium)

In accordance with your request, I have reviewed the memorandum, dated December 23, 1957, from J. H. East, Jr., concerning Bureau of Land Management memorandum 5.22a-2, C-03124 relating to land in T. 43 N., R. 18 W., sec. 10, NE¼; E½NW¼; NE¼SW¼, and sec. 11, NW¼NW¼, which requested permission to examine the subject dockets.

The five claims listed in DMEA-3628, Idm-E817, are situate in secs. 8 and 9, T. 43 N., R. 18 W. Eight holes, averaging 315 feet in depth, were drilled under Stage I. The holes were barren except for one showing slight mineralization. On October 10, 1955, the Field Team advised the Operator that Stage II would not be approved.

Of the 141 claims listed in application DMEA-3738, a part are situate in secs. 6, 7, 8, 16, 17, 18, and 20, T. 43 N., R. 18 W. The remainder are in Tps. 43-44 N., R. 19 W. This application was denied July 29, 1955, because of the depth of the holes (500-1,000 feet) and no favorable ground had been indicated by 36 holes previously drilled in the Summit Canyon area.

A review of the material in both dockets by an outside party interested in acquiring uranium-bearing claims might be detrimental to the owners of the properties, since, in one case, DMEA did not consider the claims worth further exploration after drilling eight holes; and in the second case the application was denied. Moreover, the claims in both cases are not in the sections mentioned in the Bureau of Land Management memo.

Ernest Wm. Ellis

Ernest Wm. Ellis

8623

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

OFFICE OF
REGIONAL DIRECTOR

20A NEW CUSTOM HOUSE
DENVER 2, COLORADO

December 23, 1957

Memorandum

To: C. O. Mittendorf, Administrator, DMEA

From: Regional Director, Region III

Subject: C-03124, Examination of DMEA Files

Attached is a copy of a letter from L. M. Puckett, State Supervisor, Bureau of Land Management, dated December 20, requesting permission for one of their engineers to examine the DMEA files on Dockets No. 3628 and No. 3738. A copy of my reply is attached.

For your information, unless you have particular reason for granting permission, I suggest that you follow the line that I have taken, inasmuch as we have held the files confidential since the inception of DMA and DMEA, and it would be difficult to turn down another agency if one agency is given permission.

J. H. East, Jr.

Attachments

[Copy retained by Mr. Mittendorf]

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

OFFICE OF
REGIONAL DIRECTOR

224 NEW CUSTOM HOUSE
DENVER 2, COLORADO

December 23, 1957

Memorandum

To: Lowell M. Puckett, State Supervisor, Colorado State Office, Bureau of Land Management

From: Regional Director, Region III

Subject: C-03124, Examination of DMEA Files

Mr. E. H. Montgomery was in this office this morning and gave me your letter of December 20 requesting to view the Defense Minerals Exploration Administration files on Docket No. 3628, Simpson Mining Company, et al, and No. 3736, Dolores Uranium Corporation.

The files of DMEA are held confidential by Executive Order, and it is necessary for me to refuse the request of Mr. Montgomery. It is suggested that you contact C. O. Mittendorf, Administrator, Defense Minerals Exploration Administration, Department of the Interior, Interior Building, Washington 25, D. C., for authority to examine the in these two cases.

I regret the necessity for my action in this case.

Original Signed
J. H. East

J. H. East, Jr.
Regional Director, Region III

CC: C. O. Mittendorf
W. H. King

REGIONAL DIRECTOR'S OFFICE
REGION III
DEC 23 1957
BUREAU OF MINES
DENVER, COLORADO

IN REPLY REFER TO:
5.22a-2
C-03124

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Colorado State Office
339 New Custom House
P. O. Box 1018
Denver 1, Colorado

Memorandum

To: Regional Director
Region 3, Bureau of Mines

From: State Supervisor

Subject: C-03124, Examination of DMEA Files

In connection with the investigation to determine the mineral character of lands involved in Homestead Application, C-03124, Charles Snyder, we would appreciate examining your files on certain DMEA Applications.

The land involved in the Homestead Application is:

New Mexico Principal Meridian
San Miguel County, Colorado

T. 43 N., R. 18 W.,
sec. 10, NE¼, E½NW¼, NE¼SW¼;
sec. 11, NW¼NW¼

The DMEA files Mr. E. H. Montgomery, Valuation Engineer, would like to examine, are as follows:

Docket No.	Applicant
3628	Simpson Mining Company, et al
3738	Dolores Uranium Corporation

Your cooperation is appreciated.

Lowell M. Puckett

LOWELL M. PUCKETT
State Supervisor

In dupl.

gte

Mr. B. O. Powell, President
Dolores Uranium Corporation
922 South Twenty-Third East
Salt Lake City, Utah

Re: Docket No. DMEA-3738 (Uranium)
Monument Valley, et al., groups
San Miguel County, Colorado

Dear Mr. Powell:

On November 29, 1955, in response to your inquiry, we advised you that under date of September 14, 1955, we forwarded to Mr. E. A. Hutchison, Counsel for the Dolores Uranium Corporation, maps and papers supporting your application, DMEA Docket No. 3738. You now further inquire about copies of maps which were not received.

There is being sent, under separate cover, one roll of maps. A review of our file indicates that these are all the materials submitted under your application to be returned to you.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Operations Control and
Statistics Division

REAdams:mm - 12/19/55
Copy to: Adm. R. File
Mail & Files
Chron.

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

RECEIVED
DEC 14 1955

NOV 29 1955

Mr. B. G. Powell, President
Dolores Uranium Corporation
922 South Twenty-Third East
Salt Lake City, Utah

Re: Docket No. DMEA-3738 (Uranium)
Monument Valley, et al., groups
San Miguel County, Colorado

Dear Mr. Powell:

This will acknowledge your undated letter in which you request the return of all maps and papers supporting DMEA Docket No. 3738, your request for financial assistance on an exploration project for uranium.

Please be advised that under date of September 14, 1955, we forwarded to Mr. E. A. Hutchison, Counsel for the Dolores Uranium Corporation, 420 Security Bank Building, Sioux City, Iowa, maps and papers supporting this application, in accordance with his request of September 8, 1955.

Sincerely yours,

Robert E. Adams

Robert E. Adams, Chief
Operations Control and
Statistics Division

PS Please Return all the copys you sent just one copy Back.

RECEIVED
DEC 14 1955

NOV 29 1955

Mr. B. G. Powell, President
Dolores Uranium Corporation
922 South Twenty-Third East
Salt Lake City, Utah

Re: Docket No. DMEA-3738 (Uranium)
Monument Valley, et al., groups
San Miguel County, Colorado

Dear Mr. Powell:

This will acknowledge your undated letter in which you request the return of all maps and papers supporting DMEA Docket No. 3738, your request for financial assistance on an exploration project for uranium.

Please be advised that under date of September 14, 1955, we forwarded to Mr. E. A. Hutchison, Counsel for the Dolores Uranium Corporation, 420 Security Bank Building, Sioux City, Iowa, maps and papers supporting this application, in accordance with his request of September 8, 1955.

Sincerely yours,

ROBERT E. ADAMS

Robert E. Adams, Chief
Operations Control and
Statistics Division

REAdams:mm - 11/29/55
Copy to: Adm. R. File
Mail & Files
Chron.

DOLORES URANIUM COMPANY
922 SOUTH TWENTY-THIRD EAST
SALT LAKE CITY, UTAH

B. G. POWELL
PRESIDENT & GEN. MGR.

RECEIVED
NOV 28 1955

Dear Sir

will you please return all our mags. and papers that we sent you on the DMEA Docket no 3738 we have had a fire and need the mags. papers.

we need them soon as you can get them to us.

B. G. Powell
President
Dolores uranium corp.
922 so 23E
Salt Lake city utah.

SEP 1 4 1955

Mr. E. A. Hutchinson
420 Security Bank Building
Sioux City 1, Iowa

Dear Mr. Hutchinson:

This will acknowledge your letter dated September 3, 1955 in which you, as Counsel for the Delores Uranium Corporation, request the return of maps and papers supporting application for financial assistance on an exploration project, Docket No. 3738, which was "denied" on July 29, 1955.

In accordance with your request, maps and papers referred to are returned herewith.

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

Enclosures 10

REAdams:mm - 9/13/55
Copy to: Adm. R. File
Mr. Murphy
Mail & Files
Chron.

9/13/55 gla

LAW OFFICES
HUTCHISON & HURST
420 SECURITY BANK BUILDING
SIOUX CITY 1, IOWA

ERVIN A. HUTCHISON
ROBERT J. HURST
J. FRANK DUGGAN

PHONE 5-1607

SEPTEMBER 8, 1955

RECEIVED
SEP 12 1955

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

ATTENTION: MR. C. O. MITTENDORF

RE: DOCKET NO. DMEA-3738 (URANIUM)
MONUMENT VALLEY, ET AL., GROUPS
SAN MIGUEL COUNTY, COLORADO

DEAR MR. MITTENDORF:

RELATIVE TO THE ABOVE CAPTIONED AND PURSUANT TO YOUR LETTER OF JULY 29, 1955, BE ADVISED I HAD BEEN REQUESTED AS COUNSEL FOR THE CORPORATION TO ACKNOWLEDGE RECEIPT OF YOUR LETTER AND RESPECTFULLY REQUEST THE RETURN TO THIS OFFICE OF THE MAPS AND PAPERS SUBMITTED IN SUPPORT OF DOCKET NO. DMEA-3738.

THANKING YOU FOR YOUR KIND CO-OPERATION, I AM,

VERY TRULY YOURS,

HUTCHISON, HURST & DUGGAN

BY: E. A. Hutchison

EAH:DPS

Surname 700

FMurphy
Geehan
Kilsgaard
Martin
Johnson

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

JUL 29 1955

Mr. George Smart, President
Dolores Uranium Corporation
302 Zion's Savings Bank Building
Salt Lake City, Utah

Re: Docket No. DMEA-3738 (Uranium)
Monument Valley, et al., groups
San Miguel County, Colorado

Dear Mr. Smart:

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

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

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

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

Sincerely yours,

C. O. Mittendorf

Administrator

FMurphy:am
7-27-55
cc to: Admr. Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5222
J. O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy
DMEA Field Team, Region III(2)

R.C.J.

(Docket Copy) 700

Murphy
Ellis

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

July 27, 1955

SUMMARY OF PROPOSED PROJECT

Object: Denial of application for an exploration project.

Docket No.: DMEA-3738

Commodity: Uranium

Applicant: Dolores Uranium Corporation
Mr. George Smart, President
302 Zion's Savings Bank Building
Salt Lake City, Utah

Property: Owner of following claims in San Miguel County, Utah:
Monument Valley - Nos. 1 - 20, in secs. 26, 27, 34, and 35, T. 44 N., R. 19 W.,
Red Canyon Nos. 1 - 23, in secs. 34 and 35, T. 44 N., R. 19 W., and secs. 2, 3, and 4, T. 43 N., R. 19 W.
Deer Valley Nos. 1 - 12, in secs. 2 and 35, T. 44 N., R. 19 W.
Cedar Flat Nos. 1 - 24, in secs. 1, 2, and 12, T. 43 N., R. 19 W., and secs. 6 and 7, T. 43 N., R. 18 W.
Slick Rock Nos. 1 - 18, in secs. 25, 26, 34 and 35, T. 44 N., R. 19 W.
Brush Creek Nos. 1 - 20, in secs. 6 and 7, T. 43 N., R. 18 W., and secs. 2 and 12, T. 43 N., R. 9 W.
Faulte Flat Nos. 1 - 24, in secs. 7, 8, 16, 17, 18, 20, and 21, T. 43 N., R. 18 W.

Above claims relocated as Pete Nos. 1 to 13, 15 to 23, and 25 to 58, and the Gus Nos. 1 to 28. The new locations cover most of the Monument Valley, Deer Valley, Red Canyon, and Slick Rock groups of claims.

Date of Application: March 24, 1955

Amount of Application: $254,106.00

Work proposed: Plug and core drill 83 holes (56,100 feet)

Estimated Cost of Project:

Geologist - 6 months @ $600/month	$3,600.00
Supervisor 6 months @ 600/month	3,600.00
50 core boxes @ $10/each	500.00
Bulldozer and roads 850 hours @ $12.50/hr.	$10,625.00

Estimated Cost of Project Continued:

Compressor rental, 4 months @ $265/month	$1,060.00
Logging drill-holes, 6 months @ $2,400/month	14,400.00
Gas and oil (transportation)	2,400.00
Powder and supplies	546.00
56,100 feet plug and core drilling @ $3.87/ft.	217,375.00
Total estimate cost of project	$254,106.00
75% Government participation	$190,579.50

Field Team Report: Transmitted July 12, 1955

(excerpts)

Field Examiners: Howard F. Albee, U. S. G. S.
Carl Belsser, U. S. B. M.

In general the claims follow a series of northwesterly trending faults which may be connected with the South Lisbon Valley faults, and cover parts of Blue, Morrison, Bush Creek, and Summit canyons. The Morrison formation, which is very productive east, west, and south of the property, has been eroded. The subject claims which lie below the Morrison were located to cover possible ore bodies which might occur near the Chinle-Cutler contact horizon.

The exposed rocks range from the Chinle of the upper Triassic to rocks of the upper Jurassic. The proposed project called for drilling in or near the bottoms of the canyons where the oldest exposed rock is the upper part of the Chinle. To reach the target Chinle-Cutler contact will require drill holes ranging from 500 to 1,000 feet in depth.

Description of the Deposits (Field Team)

The uranium deposition occurs near the base of the Chinle Formation. In the Summit Canyon area the upper part of the Chinle is exposed but it is not exposed in the canyons to the south. the Chinle is about 500 feet thick and the overlying Wingate is about 250 feet thick.

The Moss Back formation (between the Chinle and Underlying Cutler formation) near Muleshoe Bend is about 50 feet thick, and appears, from cores drilled by Newmont Exploration Ltd., to be about the same in Summit Canyon. Newmont drilled 20 holes spaced from 500 to 1,000 feet apart. The best hole indicated about 0.10 percent of U_3O_8 for a 2-foot interval. Off-

set holes were drilled but the uranium mineralization was thin and low grade. Three holes were drilled adjacent to the claims by Doyle, and the Hunt Oil Company drilled 13 others without finding uranium mineralization. The Newmont holes were drilled from the canyon floor and averaged about 500 feet in depth. In the other canyons no work has been done, access roads would be costly to build, and drilling would be from 200 to 500 feet deeper.

The area of least depth to the Moss Back (Summit Canyon) has been adequately tested with 36 holes, and gives no evidence of uranium ore or channels.

There are no known minable ore reserves on the property.

Conclusion (Field Team)

It is recommended that the application be denied.

Commodity Committee Members Comments:

U. S. Geological Survey

Thor H. Kiilsgaard - July 22, 1955

Mr. Kiilsgaard concurs with Field Team in recommending denial.

U. S. Bureau of Mines

John E. Crawford, July 26, 1955

Mr. Crawford concurs with Field Team's denial.

Rare and Miscellaneous Metals Division

F. M. Murphy, July 27, 1955

A careful study of the Field Team's report of examination indicates that there is little possibility of a significant amount of uranium being discovered by the proposed exploration program. Therefore, this division concurs with the Field Team and Commodity Members in recommending the subject application be denied.

Ernest Wm. Ellis

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

7/26/55 gla

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3738, Dolores Uranium Corporation, San Miguel County, Colorado

I have reviewed the Field Team report of examination, Dolores Uranium Corporation, DMEA Docket 3738; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that the application be denied because of the poor possibility of finding a significant amount of uranium, as evidenced by previous drilling.

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

John E. Crawford

John E. Crawford

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3738, Dolores Uranium Corporation, San Miguel County, Colorado

I have reviewed the Field Team report of examination, Dolores Uranium Corporation, DMEA Docket 3738; and I have discussed it with Joseph O. Hested, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that the application be denied because of the poor possibility of finding a significant amount of uranium, as evidenced by previous drilling.

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

John E. Crawford

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

RECEIVED
JUL 26 1955

July 26, 1955

Memorandum

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

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

Subject: Report of Examination, DMEA Docket 3738, Dolores Uranium Corporation, San Miguel County, Colorado

I have reviewed the Field Team report of examination, Dolores Uranium Corporation, DMEA Docket 3738; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We concur with the recommendation of the Field Team that the application be denied because of the poor possibility of finding a significant amount of uranium, as evidenced by previous drilling.

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

John E. Crawford

7/26/55 gla

IN REPLY REFER TO:

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

RECEIVED
JUL 25 1955

July 22, 1955

Memorandum

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

From: Thor H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team report, Dolores Uranium Corp., San Miguel County, Colorado, DMEA Docket 3738.

The Field Team has examined the applicant's property and as a result of their study have recommended denial of the application. This recommendation is based on 1) the fact that the property, as well as contiguous properties have already been fairly well drilled but with essentially negative results, 2) the drilling depths needed over most of the area to reach the base of the Chinle formation -- ranging from 700 to 900 feet --, and 3) the improbability of finding large enough ore bodies to warrant mining.

I concur with the Field Team recommendations.

Thor H. Kiilsgaard

Thor H. Kiilsgaard

IN REPLY REFER TO:

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

RECEIVED
JUL 25 1955

July 22, 1955

Memorandum

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

From: Thor H. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team report, Dolores Uranium Corp., San Miguel County, Colorado, DMEA Docket 3738.

The Field Team has examined the applicant's property and as a result of their study have recommended denial of the application. This recommendation is based on 1) the fact that the property, as well as contiguous properties have already been fairly well drilled but with essentially negative results, 2) the drilling depths needed over most of the area to reach the base of the Chinle formation -- ranging from 700 to 900 feet --, and 3) the improbability of finding large enough ore bodies to warrant mining.

I concur with the Field Team recommendations.

Thor H. Kiilsgaard

THKiilsgaard:iml
G-7/22/55

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

IN REPLY REFER TO:

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

RECEIVED
JUL 25 1955

July 22, 1955

Memorandum

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

From: Thor N. Kiilsgaard, U. S. Geological Survey

Subject: Review of Field Team report, Bolcrus Uranium Corp., San Miguel County, Colorado, DMEA Docket 3738.

The Field Team has examined the applicant's property and as a result of their study have recommended denial of the application. This recommendation is based on 1) the fact that the property, as well as contiguous properties have already been fairly well drilled but with essentially negative results, 2) the drilling depths needed over most of the area to reach the base of the Chinle formation -- ranging from 700 to 900 feet --, and 3) the improbability of finding large enough ore bodies to warrant mining.

I concur with the Field Team recommendations.

Thor N. Kiilsgaard

THKiilsgaard:iml
G-7/22/55

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

IN REPLY REFER TO:

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

RECEIVED
JUL 25 1955

July 22, 1955

Memorandum

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

From: Thor N. Killingsord, U. S. Geological Survey

Subject: Review of Field Team report, Dolores Uranium Corp., San Miguel County, Colorado, DMEA Docket 3738.

The Field Team has examined the applicant's property and as a result of their study have recommended denial of the application. This recommendation is based on 1) the fact that the property, as well as contiguous properties have already been fairly well drilled but with essentially negative results, 2) the drilling depths needed over most of the area to reach the base of the Chinle formation -- ranging from 700 to 900 feet --, and 3) the improbability of finding large enough ore bodies to warrant mining.

I concur with the Field Team recommendations.

Thor N. Killingsord

TNKillingsord:iml
G-7/22/55

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

7/15/55 gla

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

224 New Customhouse
Denver 2, Colorado

RECEIVED
JUL 15 1955

July 12, 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3738 (Uranium)
Delores Uranium Corporation, San Miguel County, Colorado

Enclosed are the original and three copies of the report pertaining to the above application.

Drilling results to date in this area have been unfavorable. There is a lack of geologic targets on the various claim groups. Drilling depths are from 500 to 1,000 feet and there is little possibility of a significant amount of uranium being discovered by the proposed exploration work.

We concur with the recommendation of the field examiners that the application be denied.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

TRANSMITTED

JUL 12 1955

DMEA
Date Rec'd JUL 7 1955

RECEIVED
JUL 7 1955
BUREAU OF MINES
Denver, Colorado

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
July 6, 1955

Region III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: DMEA 3738, (Uranium) Northeastern Slick Rock claims, Dolores Uranium Corporation, San Miguel County, Colorado

Enclosed are the original and eleven copies of a "Summary, Conclusions, and Recommendations" by Howard F. Albee, geologist, and Carl Balser, mining engineer and the original and eleven copies of an engineering report by Carl Balser covering docket DMEA 3738.

The Dolores Uranium Corporation applied for exploration assistance in the amount of $254,106.00 to explore their group of claims by 56,100 feet of drilling. A field examination was made on May 25, 1955, by Howard F. Albee and Carl Balser. The examining team concluded that there was little possibility of a significant amount of uranium being discovered by the proposed exploration work.

It is recommended that the application be denied.

John F. Shaw
John F. Shaw
Supervising Mining Engineer

Enclosures

cc 11 ✓
DMEA 3738
Chron

JFS/cm

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3738, Northeastern Slick Rock Claims

Dolores Uranium Corporation

San Miguel County, Colorado

Uranium

Howard F. Albee, Geologist
Geological Survey

Carl Balser, Mining Engineer
Bureau of Mines

June 27, 1955

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By Howard F. Albee
Geologist
Geological Survey

Carl Balsar
Mining Engineer
Bureau of Mines

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Howard F. Albee and Carl Balser

The Dolores Uranium Corporation, George Smart, president, 922 South Twenty-third East Street, Salt Lake City, Utah, has applied for Defense Minerals Exploration Administration aid in an exploration project consisting of 56,100 feet of drilling at an estimated cost of $254,106.00.

A field investigation was made on May 25, 1955 by an examining team from the Geological Survey and the Bureau of Mines. R. G. Powell, manager of Dolores Uranium Corporation, accompanied the team.

The northeastern Slick Rock claims, consisting of 20 Monument Valley claims, 23 Red Canyon claims, 12 Deer Valley claims, 24 Faults Flat claims, 24 Cedar Flat claims, 20 Bush Creek claims, and 18 Slick Rock claims are in sections 6, 7, 8, 16, 17, 18, and 20, T. 43 N., R. 18 W.; sections 1, 2, 3, 4, and 12, T. 43 N., R. 19 W.; and sections 25, 26, 27, 34, 35, and 36, T. 44 N., R. 19 W., New Mexico principal meridian. In general the claims follow a series of northwesterly trending faults which may be connected with the south Lisbon Valley faults, and cover parts of Blue, Morrison, Bush Creek and Summit canyons. The exposed rocks range from the Chinle of the upper Triassic to rocks of the upper Jurassic. The proposed project called for drilling

in or near the bottoms of the canyons where the oldest exposed rock (Summit Canyon) is the upper part of the Chinle. The Chinle formation is about 500 feet thick, the overlying Wingate is 200 feet thick, the Kayenta, above the Wingate is not well defined, while the Navajo, in Summit Canyon, ranges from a few feet to several hundred feet. Cores from holes drilled by Newmont Exploration Limited, Hunt Oil Company, and Doyle indicate that the basal Chinle is a green colored sandstone, the bottom part of which is somewhat coarse and contains carbonaceous trash and green mudstone.

Only one canyon, Summit, has a road running along the bottom of the canyon. The construction of roads along the other three canyon bottoms would be costly, and nothing is known concerning the mineralization of the basal Chinle in those areas. The claims in Summit Canyon were recently drilled by Newmont Exploration Limited and, although some uranium mineralization was penetrated, no uranium ore was found.

As the Newmont drilling was almost identical to the DMEA pattern for this type of exploratory work, and as the drilling would be deeper in the other canyons and require considerable road construction, the examining team recommended that the application be denied.

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

Engineering Report

By Carl Belzer
Mining Engineer
Bureau of Mines

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

CONTENTS

Engineering report — Page

Introduction..... 1
Acknowledgements..... 1
Location, topography and climate..... 2
History and production..... 3
Ownership and extent..... 3
Description of the deposits..... 8
Minable ore reserves..... 9
Present status..... 9
Exploration and development..... 9
Mining and milling equipment and other facilities.. 9
Estimated cost of project..... 9
Estimated cost of core drilling..... 9
Conclusions..... 11
Recommendations..... 11

ILLUSTRATIONS

Figure — Follows page

1. Location map, northeastern Slick Rock claims, Dolores Uranium Corporation, San Miguel County, Colo..... 2
2. Claim map showing proposed drilling locations, northeastern Slick Rock Claims, Dolores Uranium Corporation, San Miguel County, Colo..... 2

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

ENGINEERING REPORT

By

Carl Balser

INTRODUCTION

The Dolores Uranium Corporation, 922 South Twenty-third East Street, Salt Lake City, Utah, on March 24, 1955, submitted an application to the Defense Minerals Exploration Administration for aid in an exploration project on northeastern Slick Rock claims in the Slick Rock mining district, San Miguel County, Colorado. The application, DMEA 3738, requested aid in drilling 83 holes (56,100 feet) at a total estimated cost of $254,106.00. This proposed exploration was to test the lower Chinle formation for uranium mineralization near the Chinle-Cutler contact.

A joint field examination was made by a Geological Survey and Bureau of Mines examining team on May 25, 1955. The examining team, as a result of their investigation recommended that the application be denied.

ACKNOWLEDGEMENTS

B. G. Powell, manager of Dolores Uranium Corporation, accompanied the examining team.

W. P. Williams, geologist, Colorado Plateau area, Geological Survey, Grand Junction, Colorado, assigned Howard F. Albee, geologist, to make the examination as the Geological Survey member of the team.

The Atomic Energy Commission was consulted regarding the area before the examination was made.

LOCATION, TOPOGRAPHY, AND CLIMATE

The northeastern Slick Rock claims of the Dolores Uranium Corporation are west of the Dolores River and on the northeast flank of the Dolores anticline in sections 6, 7, 8, 16, 17, 18, and 20, T. 43 N., R. 18 W., New Mexico principal meridian; sections 1, 2, 3, 4, and 12, T. 43 N., R. 19 W., New Mexico principal meridian; and sections 25, 26, 27, 34, 35, and 36, T. 44 N., R. 19 W., New Mexico principal meridian; Slick Rock mining district, San Miguel County, Colo. The 138 unpatented claims form an almost continuous chain of claims which are 6-1/2 miles long and are closely grouped in Summit, Bush Creek, Hine, and Morrison canyons (figs. 1 and 2).

A fair access road, 3 miles long connects with a county road two miles north of State Highway 80 at the Slick Rock bridge from whence Naturita is 44 miles to the east, Uravan 61 miles to the northeast, Norwood 52 miles to the east, Ridgway 92 miles to the east, Dove Creek, Colorado, 23 miles to the south, and Monticello, Utah, 46 miles to the northwest.

Labor and supplies are available in Naturita, Uravan, Dove Creek and Monticello. Ore mills and ore-buying depots are located at Naturita, Uravan, and Monticello. The nearest railway is the

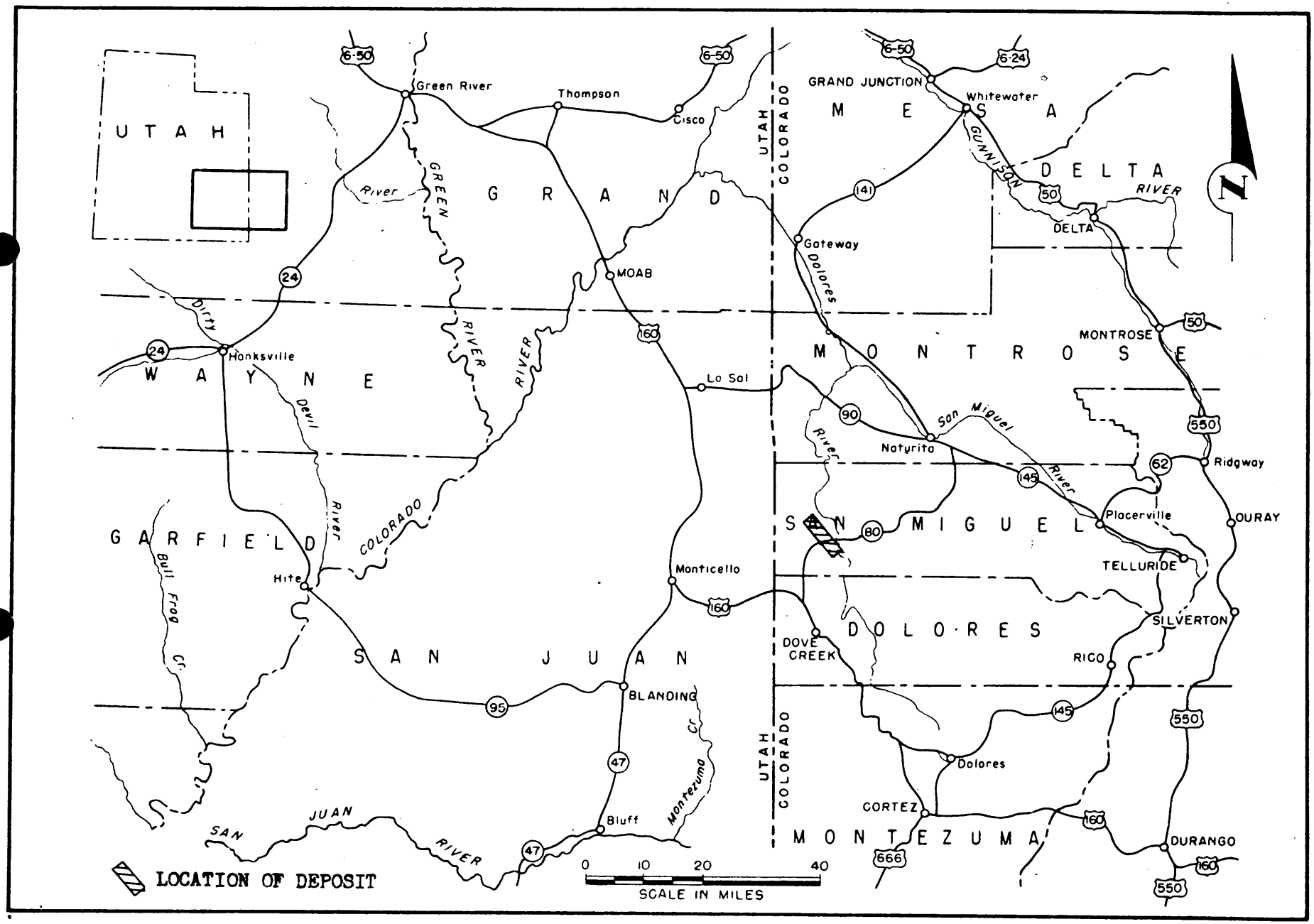


FIGURE 1 - LOCATION MAP, NORTHEASTERN SLICKROCK CLAIMS, DOLORES URANIUM CORPORATION, SAN MIGUEL COUNTY, COLO. DMEA 3738

Denver and Rio Grande Western at Ridgway. Local native lumber and timber is obtainable and pinon, suitable for some mine uses, grows on the property.

Altitudes range from about 5,700 feet to 6,700 feet. Rainfall is light and the country is classed as semi-arid. Water for drilling purposes can be obtained from the Dolores river or by building small reservoirs in the canyons.

HISTORY AND PRODUCTION

To the north, east, and west of the property a sizable production has been made from deposits in the Morrison formation. The Dolores Uranium Corporation's claims were located in 1953 and 1954. The claims lie below the Morrison formation and were located to cover possible ore bodies near the Chinle-Cutler contact. A small amount of low-grade uranium ore has recently been mined from Maleshoe Bend, about 3 miles southeast of the property. No uranium ore has been shipped from any of the Dolores Uranium Corporation's claims but a small amount of uranium mineralization has been cut by drilling in Summit Canyon.

OWNERSHIP AND EXTENT

The claims are recorded in the office of the County Clerk and Recorder of San Miguel County, Colorado, as follows:

Claim	Book	Page	Date located	Date recorded	Locator	Amended book	Amended page	Amended date
Red Canyon #1	228	519	12/4/53	2/17/54	Melba S. Powell	240	125	8/14/54
Red Canyon #2	228	518	12/4/53	2/17/54	Barney G. Powell	240	126	8/14/54
Red Canyon #3	228	517	12/4/53	2/17/54	Byron Powell	240	127	8/14/54
Red Canyon #4	228	516	12/4/53	2/17/54	Melba S. Powell	240	128	8/14/54
Red Canyon #5	228	515	12/4/53	2/17/54	Elaine Powell	240	129	8/14/54
Red Canyon #6	228	514	12/4/53	2/17/54	Barney G. Powell	240	130	8/14/54

Claim	Book	Page	Date located	Date recorded	Locator	Amended book	Amended page	Amended date
Red Canyon #7	228	513	12/4/53	2/17/54	Melba S. Powell	240	131	8/14/54
Red Canyon #8	228	512	12/4/53	2/17/54	Byron Powell	240	132	8/14/54
Red Canyon #9	228	511	12/4/53	2/17/54	Stanford Powell	240	133	8/14/54
Red Canyon #10	228	510	12/4/53	2/17/54	Elaine Powell	240	134	8/14/54
Red Canyon #11	228	509	12/4/53	2/17/54	Elaine Powell	240	135	8/14/54
Red Canyon #12	228	508	12/4/53	2/17/54	Melba S. Powell	240	136	8/14/54
Red Canyon #13	228	507	12/4/53	2/17/54	Stanford Powell	240	137	8/14/54
Red Canyon #14	228	506	12/4/53	2/17/54	Elaine Powell	240	138	8/14/54
Red Canyon #15	228	505	12/4/53	2/17/54	Melba S. Powell	240	139	8/14/54
Red Canyon #16	228	504	12/4/53	2/17/54	Byron Powell	240	140	8/14/54
Red Canyon #17	228	503	12/4/53	2/17/54	Barney G. Powell	240	141	8/14/54
Red Canyon #18	228	502	12/4/53	2/17/54	Melba S. Powell	240	142	8/14/54
Red Canyon #19	228	501	12/4/53	2/17/54	Elaine Powell	240	143	8/14/54
Red Canyon #20	228	500	12/4/53	2/17/54	Stanford Powell	240	144	8/14/54
Red Canyon #21	230	350	(Cir. 7)	3/15/54		240	145	8/14/54
Red Canyon #22	230	351	(Cir. 7)	3/15/54		240	146	8/14/54
Red Canyon #23	230	352	(Cir. 7)	3/15/54		240	147	8/14/54
Deer Valley #1	228	531	12/3/53	2/17/54	B. G. Powell, et al	240	148	8/14/54
Deer Valley #2	228	523	12/3/53	2/17/54	B. G. Powell, et al	240	149	8/14/54
Deer Valley #3	228	522	12/3/53	2/17/54	B. G. Powell, et al	240	150	8/14/54
Deer Valley #4	228	530	12/3/53	2/17/54	B. G. Powell, et al	240	151	8/14/54
Deer Valley #5	228	527	12/3/53	2/17/54	B. G. Powell, et al	240	152	8/14/54
Deer Valley #6	228	529	12/3/53	2/17/54	B. G. Powell, et al	240	153	8/14/54
Deer Valley #7	228	521	12/3/53	2/17/54	B. G. Powell, et al	240	154	8/14/54
Deer Valley #8	228	520	12/3/53	2/17/54	B. G. Powell, et al	240	154	8/14/54
Deer Valley #9	228	528	12/3/53	2/17/54	B. G. Powell, et al	240	155	8/14/54
Deer Valley #10	228	524	12/3/53	2/17/54	B. G. Powell, et al	240	156	8/14/54
Deer Valley #11	228	525	12/3/53	2/17/54	B. G. Powell, et al	240	157	8/14/54
Deer Valley #12	228	526	12/3/53	2/17/54	B. G. Powell, et al	240	158	8/14/54
Faulte Flat #1	228	546	12/2/53	2/17/54	Melba S. Powell	240	184	8/17/54
Faulte Flat #2	228	545	12/2/53	2/17/54	Stanford Powell	240	185	8/17/54
Faulte Flat #3	228	544	12/2/53	2/17/54	Byron Powell	240	186	8/17/54
Faulte Flat #4	228	543	12/2/53	2/17/54	Melba S. Powell	240	187	8/17/54
Faulte Flat #5	228	542	12/2/53	2/17/54	Byron Powell	240	188	8/17/54
Faulte Flat #6	228	541	12/2/53	2/17/54	Elaine Powell	240	189	8/17/54
Faulte Flat #7	228	540	12/2/53	2/17/54	Melba S. Powell	240	190	8/17/54
Faulte Flat #8	228	539	12/2/53	2/17/54	Barney G. Powell	240	191	8/17/54
Faulte Flat #9	228	538	12/2/53	2/17/54	Barney G. Powell	240	192	8/17/54
Faulte Flat #10	228	537	12/2/53	2/17/54	Elaine Powell	240	193	8/17/54
Faulte Flat #11	228	536	12/2/53	2/17/54	Melba S. Powell	240	194	8/17/54
Faulte Flat #12	228	535	12/2/53	2/17/54	Stanford Powell	240	195	8/17/54
Faulte Flat #13	228	534	12/2/53	2/17/54	Byron Powell	240	196	8/17/54
Faulte Flat #14	228	533	12/2/53	2/17/54	Melba S. Powell	240	197	8/17/54
Faulte Flat #15	228	532	12/2/53	2/17/54	Elaine Powell	240	198	8/17/54
Faulte Flat #16	228	368	(Cir. 7)			240	199	8/17/54

Claim	Book	Page	Date located	Date recorded	Locator	Amended book	Amended page	Amended date
Faulte Flat #17	230	369	(Cir. 7)			240	200	8/17/54
Faulte Flat #18	230	370	(Cir. 7)			240	201	8/17/54
Faulte Flat #19	230	371	(Cir. 7)			240	202	8/17/54
Faulte Flat #20	230	372	(Cir. 7)			240	203	8/17/54
Faulte Flat #21	230	373	(Cir. 7)			240	204	8/17/54
Faulte Flat #22	230	374	(Cir. 7)			240	205	8/17/54
Faulte Flat #23	230	375	(Cir. 7)			240	206	8/17/54
Faulte Flat #24	230	376	(Cir. 7)			240	207	8/17/54
Cedar Flat #1	228	479	1/5/54	2/17/54	Malba S. Powell	240	160	8/15/54
Cedar Flat #2	228	478	1/5/54	2/17/54	Barney G. Powell	240	161	8/15/54
Cedar Flat #3	228	477	1/5/54	2/17/54	Byron Powell	240	162	8/15/54
Cedar Flat #4	228	476	1/5/54	2/17/54	Barney G. Powell	240	163	8/15/54
Cedar Flat #5	228	475	1/5/54	2/17/54	Elaine Powell	240	164	8/15/54
Cedar Flat #6	228	474	1/5/54	2/17/54	Stanford Powell	240	165	8/15/54
Cedar Flat #7	228	473	1/5/54	2/17/54	Byron Powell	240	166	8/15/54
Cedar Flat #8	228	472	1/5/54	2/17/54	Dale Smart	240	167	8/15/54
Cedar Flat #9	228	471	1/5/54	2/17/54	Elaine Powell	240	168	8/15/54
Cedar Flat #10	228	470	1/5/54	2/17/54	Barney G. Powell	240	169	8/15/54
Cedar Flat #11	228	469	1/5/54	2/17/54	Stanford Powell	240	170	8/15/54
Cedar Flat #12	228	468	1/5/54	2/17/54	Elaine Powell	240	171	8/15/54
Cedar Flat #13	228	467	1/5/54	2/17/54	Byron Powell	240	172	8/15/54
Cedar Flat #14	228	466	1/5/54	2/17/54	Stanford Powell	240	173	8/15/54
Cedar Flat #15	228	465	1/5/54	2/17/54	Malba S. Powell	240	174	8/15/54
Cedar Flat #16	228	464	1/5/54	2/17/54	Barney G. Powell	240	175	8/15/54
Cedar Flat #17	228	463	1/5/54	2/17/54	Malba S. Powell	240	176	8/15/54
Cedar Flat #18	228	462	1/5/54	2/17/54	Malba S. Powell	240	177	8/15/54
Cedar Flat #19	228	461	1/5/54	2/17/54	Barney G. Powell	240	178	8/15/54
Cedar Flat #20	230	324	(Cir. 7)	3/15/54		240	179	8/15/54
Cedar Flat #21	230	325	(Cir. 7)	3/15/54		240	180	8/15/54
Cedar Flat #22	230	326	(Cir. 7)	3/15/54		240	181	8/15/54
Cedar Flat #23	230	327	(Cir. 7)	3/15/54		240	182	8/15/54
Cedar Flat #24	230	328	(Cir. 7)	3/15/54		240	183	8/15/54
Monument Valley #1	228	499	12/2/53	2/17/54	Malba S. Powell	240	105	8/18/54
Monument Valley #2	228	498	12/2/53	2/17/54	Floyd Smart	240	106	8/18/54
Monument Valley #3	228	497	12/2/53	2/17/54	Barney G. Powell	240	107	8/18/54
Monument Valley #4	228	496	12/2/53	2/17/54	Malba S. Powell	240	108	8/18/54
Monument Valley #5	228	495	12/2/53	2/17/54	Elaine Powell	240	109	8/18/54
Monument Valley #6	228	494	12/2/53	2/17/54	Byron Powell	240	110	8/18/54
Monument Valley #7	228	493	12/2/53	2/17/54	Malba S. Powell	240	111	8/18/54
Monument Valley #8	228	492	12/2/53	2/17/54	Stanford Powell	240	112	8/18/54
Monument Valley #9	228	491	12/2/53	2/17/54	Byron Powell	240	113	8/18/54
Monument Valley #10	228	490	12/2/53	2/17/54	Malba S. Powell	240	114	8/18/54
Monument Valley #11	228	489	12/2/53	2/17/54	Elaine Powell	240	115	8/18/54
Monument Valley #12	228	488	12/2/53	2/17/54	Barney G. Powell	240	116	8/18/54
Monument Valley #13	228	487	12/2/53	2/17/54	Malba S. Powell	240	117	8/18/54
Monument Valley #14	228	486	12/2/53	2/17/54	Barney G. Powell	240	118	8/18/54

Claim	Book	Page	Date located	Date recorded	Locator	Amended book	Amended page	Amended date
Monument Valley #15	228	485	12/2/53	2/17/54	Dale Smart	240	119	8/18/54
Monument Valley #16	228	484	12/2/53	2/17/54	Malba S. Powell	240	120	8/18/54
Monument Valley #17	228	483	12/2/53	2/17/54	Elaine Powell	240	121	8/18/54
Monument Valley #18	228	482	12/2/53	2/17/54	Barney G. Powell	240	122	8/18/54
Monument Valley #19	228	481	12/2/53	2/17/54	Malba S. Powell	240	123	8/18/54
Monument Valley #20	228	480	12/2/53	2/17/54	Barney G. Powell	240	124	8/18/54
Slick Rock #1	235	335	3/15/54	5/28/54	Slick Rock Uranium Company	240	228	8/16/54
Slick Rock #2	235	336	3/15/54	5/28/54	do.	240	229	8/16/54
Slick Rock #3	235	337	3/15/54	5/28/54	do.	240	230	8/16/54
Slick Rock #4	235	338	3/15/54	5/28/54	do.	240	231	8/16/54
Slick Rock #5	235	339	3/15/54	5/28/54	do.	240	232	8/16/54
Slick Rock #6	235	340	3/15/54	5/28/54	do.	240	233	8/16/54
Slick Rock #7	235	341	3/15/54	5/28/54	do.	240	234	8/16/54
Slick Rock #8	235	342	3/15/54	5/28/54	do.	240	235	8/16/54
Slick Rock #9	235	343	3/15/54	5/28/54	do.	240	236	8/16/54
Slick Rock #10	235	344	3/15/54	5/28/54	do.	240	237	8/16/54
Slick Rock #11	235	345	3/15/54	5/28/54	do.	240	238	8/16/54
Slick Rock #12	235	346	3/15/54	5/28/54	do.	240	239	8/16/54
Slick Rock #13	235	347	3/15/54	5/28/54	do.	240	240	8/16/54
Slick Rock #14	235	348	3/15/54	5/28/54	do.	240	241	8/16/54
Slick Rock #15	235	349	3/15/54	5/28/54	do.	240	242	8/16/54
Slick Rock #16	235	350	3/15/54	5/28/54	do.	240	243	8/16/54
Slick Rock #17	235	351	3/15/54	5/28/54	do.	240	244	8/16/54
Slick Rock #18	235	352	3/15/54	5/28/54	do.	240	245	8/16/54
Bush Creek #1	235	380	3/5/54	5/28/54	do.	240	208	8/17/54
Bush Creek #2	235	381	3/5/54	5/28/54	do.	240	209	8/17/54
Bush Creek #3	235	382	3/5/54	5/28/54	do.	240	210	8/17/54
Bush Creek #4	235	383	3/5/54	5/28/54	do.	240	211	8/17/54
Bush Creek #5	235	384	3/5/54	5/28/54	do.	240	212	8/17/54
Bush Creek #6	235	385	3/5/54	5/28/54	do.	240	213	8/17/54
Bush Creek #7	235	386	3/5/54	5/28/54	do.	240	214	8/17/54
Bush Creek #8	235	387	3/5/54	5/28/54	do.	240	215	8/17/54
Bush Creek #9	235	388	3/5/54	5/28/54	do.	240	216	8/17/54
Bush Creek #10	235	389	3/5/54	5/28/54	do.	240	217	8/17/54
Bush Creek #11	235	390	3/5/54	5/28/54	do.	240	218	8/17/54
Bush Creek #12	235	391	3/5/54	5/28/54	do.	240	219	8/17/54
Bush Creek #13	235	392	3/5/54	5/28/54	do.	240	220	8/17/54
Bush Creek #14	235	393	3/5/54	5/28/54	do.	240	221	8/17/54
Bush Creek #15	235	394	3/5/54	5/28/54	do.	240	222	8/17/54
Bush Creek #16	235	395	3/5/54	5/28/54	do.	240	223	8/17/54
Bush Creek #17	235	396	3/5/54	5/28/54	do.	240	224	8/17/54
Bush Creek #18	235	397	3/5/54	5/28/54	do.	240	225	8/17/54
Bush Creek #19	235	398	3/5/54	5/28/54	do.	240	226	8/17/54
Bush Creek #20	235	399	3/5/54	5/28/54	do.	240	227	8/17/54

The Monument Valley group is in sections 26, 27, 34, and 35, T. 44 N., R. 19 W., New Mexico principal meridian.

The Red Canyon group is in sections 34 and 35, T. 44 N., R. 19 W., and sections 2, 3, and 4, T. 43 N., R. 19 W., New Mexico principal meridian.

The Deer Valley claims are in section 35, T. 44 N., R. 19 W., and section 2, T. 44 N., R. 19 W., New Mexico principal meridian.

The Cedar Flat group is in sections 1, 2, and 12, T. 43 N., R. 19 W., and sections 6 and 7, T. 43 N., R. 18 W., New Mexico principal meridian.

The Slick Rock claims are in sections 25, 26, 34, and 35, T. 44 N., R. 19 W., New Mexico principal meridian.

The Bush Creek group is in sections 6 and 7, T. 43 N., R. 18 W., and sections 2 and 12, T. 43 N., R. 19 W., New Mexico principal meridian.

The Faults Flat claims are in sections 7, 8, 16, 17, 18, 20, and 21, T. 43 N., R. 18 W., New Mexico principal meridian.

Since the above were recorded the Newmont Exploration Limited leased the Summit Canyon area and made a resurvey of the claims, which were relocated as the Pete Nos. 1 to 13, 15 to 23 and 25 to 58 and the Gus Nos. 1 to 28--a total of 75 claims. These claims have been recorded by the Dolores Uranium Corporation and cover most of the Monument Valley, Deer Valley, Red Canyon, and Slick Rock groups.

DESCRIPTION OF THE DEPOSITS

The uranium deposition occurs near the base of the Chinle formation. The Chinle is about 500 feet thick and the overlying Wingate is about 250 feet thick. Apparently the Chinle rests on the Cutler formation and all the formations dip gently to the northwest. In the Summit Canyon area the upper part of the Chinle is exposed but it is not exposed in the canyons to the south. Southeasterly striking faults cut the claims. These faults are in line with the Lisbon Valley fault to the northwest and between some of them small grabens are formed.

The Moss Back formation near Muleshoe Bend is about 50 feet thick and appears, from cores drilled by Newmont Exploration Limited, to be about the same in Summit Canyon. Newmont drilled 20 holes spaced from 500 to 1,000 feet apart. The best hole indicated about 0.10 percent of U_3O_8 for a 2-foot interval. Offset holes were drilled but the uranium mineralization was thin and of low grade. Three holes were drilled adjacent to the claims by Doyle, and the Hunt Oil Company drilled 13 others without finding uranium mineralization. The Newmont holes were drilled from the canyon floor and averaged about 500 feet in depth. In the other canyons no work has been done, access roads would be costly to build, and drilling would be from 200 to 500 feet deeper.

The area of least depth to the Moss Back (Summit Canyon) has been adequately tested with 36 holes, and gives no evidence of uranium ore or channels.

MINABLE ORE RESERVES

There are no known minable ore reserves on the property.

PRESENT STATUS

Exploration and Development

With the exception of the 20 holes drilled by Newmont Exploration Limited, no exploration or development, other than claim locations, has been done.

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment on the property and the only facilities consist of an access road in Summit Canyon and a short access road into Bush Canyon.

ESTIMATED COST OF PROJECT

The application, as submitted, calls for 83 drill holes to be drilled in locations shown on figure 2 and totaling 56,100 feet of drilling.

Estimated Cost of Core Drilling

The applicant expects to subcontract all core drilling and access-road building to independent contractors. The applicant's estimated costs are as follows:

Independent contracts

Bulldozing roads and drill sites 850 hours at $12.50 per hour	$10,625.00	
56,100 feet of drilling, with the bottom 50 feet of each hole cored at $3.874 per foot	217,375.00	
Total independent contracts		$228,000.00

Labor and supervision		
Labor - none		
Supervision		
Geologist - 6 months at $600.00 per month	$3,600.00	
Supervisor - 6 months at $600.00 per month	3,600.00	
Total labor and supervision		$ 7,200.00
Operating materials and supplies		
50 core boxes at $10.00 each	500.00	
Gas and oil - $400.00 a month for 6 months	2,400.00	
Powder and supplies	546.00	
Total operating materials and supplies		3,446.00
Operating equipment		
Rental		
Gardner-Denver 105 compressor - 4 months at $265.00 per month	1,060.00	
Total operating equipment		1,060.00
Initial rehabilitation and repairs		
None		
New buildings, equipment, etc.		
None		
Miscellaneous		
Electric logging - 6 months at $2,400.00 per month	14,400.00	
Total miscellaneous		14,400.00
Total estimated cost for drilling 56,100 feet		**$254,106.00**
Average cost per feet		$ 4.53
Government participation, 75 percent		$190,579.50

The applicant lists a high logging cost but no labor although he has a compressor rented for 4 months for road building. Also payroll taxes and insurance are not shown.

CONCLUSIONS

The Summit Canyon area has been adequately explored by 36 drill holes. Most of these holes were negative and none of the holes penetrated uranium ore. The drilling by Beaumont Exploration Limited was almost identical to that which would have been done under a DMEA project. The Bush, Morrison, and Elms Canyon claims require deeper drilling and considerable road work. The Moss Back member of the Chinle formation is unexplored in this area and any drilling for the Chinle-Cutler contact in this area would be prospecting and not exploration.

RECOMMENDATIONS

It is recommended, by the examining team, that the application be denied.

/cm

COPY

Mr. B. G. Powell
922 South 23rd. East
Salt Lake City, Utah

May 16, 1955

SUMMARY AND CONCLUSIONS:

A total of 97 claims was optioned by Newmont Exploration Limited in October, 1954 in the Summit Canyon area to explore the ore possibilities of the Mossback member at the base of the Chinle Formation.

In the period from November, 1954 to March 1955, a major portion of the optioned ground was restaked, 111 discovery pits were dug, a short geophysical survey was carried out, and 20 holes were drilled averaging 500 feet in depth.

Minor radioactivity was found to be localized along the contact of the grey sandstone Mossback member with the underlying brown Cutler shales. The best hole, S.C. No. 5 indicated about 0.10% U_3O_8 from 476 to 478 feet, while the other holes showed radioactivity ranging from nil and trace to 0.05% U_3O_8 over narrow thicknesses. No evidence of any major channelling or scouring in the top of the Cutler formation was found.

Location:

The approximate centre of the drilling locations in Summit Canyon was at latitude 38°01'40"N, longitude 108°56'22"W, near the mouth of Stevens Canyon.

The claims covered parts of sections 3 and 4, T43N, R19W and parts of sections 33, 34 and 35, T44N, R19W, in San Miguel County, Colorado as shown on the accompanying map.

Access to the property is by travelling eleven miles north-east of Egnar, Colorado on the Dove Creek-Naturita highway, then along a road for three miles which branches to the northwest following the south side of the Dolores River, thence by a jeep road up Summit Canyon for about three miles to the drill locations. Other jeep roads traverse the canyon rims.

The topography of the Summit Canyon area is typical of the rugged semi-arid Colorado Plateau, with the nearly horizontal, slightly warped sedimentary strata deeply incised by youthful canyons having almost vertical walls. The altitude is from 5800 to 6600 feet.

Water flows down the canyon in a small stream during the spring run-off and after the infrequent rains, with a little seepage in places throughout the year. Otherwise, water may be hauled from the Dolores River at the foot of Summit Canyon.

COPY

Geology:

Areal and Local:

The areal geology of the region as contained within the Horse Range Mesa Quadrangle shows bed rock exposures ranging from the Burro Canyon sandstones, conglomerates and shales of Cretaceous age to the Triassic Chinle shales. There is but little overburden anywhere, and the most prominent exposures are the massive sandstone formations such as the Entrada, Navajo and Wingate.

Structural units within the area are few. The assymetrical Dolores anticline which crosses Summit Canyon, exhibits a gently dipping south limb and a steeper dipping north flank. A zone of northwest south-east, en echelon, steeply dipping, normal faults cuts the canyon. These faults show only minor movement where they intersect Summit Canyon.

Locally, where the drilling was carried out from the alluvium covered floor of the canyon, the walls rise almost vertically for 300 feet through the reddish brown Chinle shales, brownish yellow, massive, cross-bedded Wingate sandstone, Purplish-red, ledgy sloped Kayenta sandstone and are capped by yellowish-gray, cross-bedded Navajo sandstone which forms rounded slopes and benches. A slight angular unconformity shows at the base of the Wingate sandstone.

Drill Hole Geology:

The condensed logs of the twenty holes drilled are shown on the accompanying section.

The horizon sought by each of the drill holes as being potentially uranium bearing was the Mossback sandstone member found at the base of the Chinle shales. Large ore bodies have been found in the Mossback in the Big Indian Wash area and elsewhere.

In the Summit Canyon the unconformible contact of the base of the Triassic Mossback member with the Permian Cutler shales showed minor radioactivity in most of the holes drilled. It was hoped that channels and scours might be found cut into the top of the Cutler formation which would have formed traps for carbonaceous trash and therefore been favorable for uranium deposition. Additional, more closely spaced drilling was done around the two most radioactive holes, S.C. No. 5 and S.C. No. 16 in an attempt to find channels, but none were found.

COPY

In the line of holes drilled down Summit Canyon those near either end of the line proved blank, with only the area between holes S.C. No. 4 and S.C. No. 8 showing significant radioactivity. The radioactivity found in this central section may be related to faulting, as holes S.C. No. 5 and S.C. No. 16 are close to a line of minor fault movement. Other holes drilled near faults however showed only faint radioactivity.

The grey clean cut off with the underlying reddish, banded and mottled Cutler shales, though a few feet of grey shale is present locally at the Mossback base. In some holes the upper part of the Mossback was a siltstone, thus forming a gradational phase between the grey shales above and the similarly colored, fine grained sandstones below, and making a thickness determination of the Mossback member difficult and uncertain.

The Mossback sandstone generally contained flecks and seams of carbon in small amounts, while the conglomerate bands usually had both carbon seams and crystals of pyrite.

Indicated Radioactivity from Gamma Logs:

The degree of radioactivity as measured by a gamma probe in counts per second together with a combined interpretation of its equivalent in % U_3O_8 as scaled from a graphy supplied by Century Geophysical Corporation and by Mr. D. Wagg, Geophysicist, Newmont Exploration Ltd., is as follows:

Hole No.	From	To	Thick	C.P.S.	Equivalent $\%U_3O_8$
S.C. #1				Background	
#2				Background	
#3				Background	
#4	449	450	1	40	0.01 - 0.05
#5	476	478	2	150	0.09 - 0.15
#6	At 362 and 415			18	Trace
#7				Background	
#8	507	508	1	25	Tr. - 0.01
#9	466	468	2	22	Tr. - 0.01
#10	466	468	2	40	0.01 - 0.05
#11				Background	
#12	457	460	3	25	Tr. - 0.01
#13	470	472	2	61	0.02 - 0.06
#14	487	489	2	20	Tr. - 0.01
#15				Background	
#16	466-1/2	469	2-1/2	105	0.05 - 0.08
#17	452	454	2	30	Tr. 0 - 0.02
#18				Background	
#19	480	483	3	26	Tr. - 0.01
#20	465	468	3	32	Tr. - 0.03

COPY

No definite channel has so far been clearly indicated. The mineralization seen discovered by the drilling trends north of west in the same direction as the faulting on the north side of the Dolores Anticline.

Sincerely yours

(s) G.W.H. Norman

by D.B.

GWHN:db
Encls.

TRANSMITTED
JUL 12 1955

IN REPLY REFER TO:
DMEA
Date Rec'd.
JUN 23 1955
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

June 23, 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3738, (Uranium), Dolores Uranium Corporation, Slick Rock Mining district, San Miguel County, Colorado

Enclosed are 10 copies of a geologic report by Howard F. Albee and George C. Simmons, U. S. Geological Survey, covering their examination of the subject property.

Based on the unfavorable results of drilling already done in the Summit Canyon area, the lack of geologic targets on the various claim groups, and the probability that ore bodies, if found, will be small, low grade and located at depths of from 500 to 1,000 feet, they conclude that exploration on the subject claims is not warranted. They recommend denial of the application for exploration assistance.

I concur with the recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

ENHarshman:arh

TRANSMITTED
JUL 12 1955

MINERAL DEPOSITS
DMEA
RECEIVED
JUN 21 1955
U. S.
GEOLOGICAL SURVEY
DENVER, COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
P. O. BOX 360
GRAND JUNCTION, COLORADO

June 16, 1955

Memorandum

To: E. N. Harshman, DMEA Field Team, Region III

From: J. William Hasler

Subject: DMEA 3738, Dolores Uranium Corporation, Slick Rock mining district, San Miguel County, Colo.

Transmitted herewith are 12 copies (one of which is to be transmitted to John F. Shaw, U. S. Bureau of Mines) of a geologic report by Howard F. Albee and George C. Simmons of U. S. Geological Survey, covering a field examination of the above-referenced property, made May 25, 1955.

Mr. Albee concludes that the probability of ore deposits occurring in the area can be inferred only from the Dolores Canyon outcrop and from drill holes in Summit Canyon. The relation of mineralized material to faults, if any, is not known. Two mineralized holes are on the trace of a fault and other drill holes similarly situated are barren to slightly mineralized. No targets such as channels or scours are indicated and known mineralization is of small extent and thickness and is of sub-marginal grade. The drilling depths are from 500 to 1,000 feet and such depths are rather prohibitive without good geologic probability of finding large high-grade ore bodies. The general area has been tested by several private companies, none of which have proven favorable. This drilling in the Summit Canyon area has adequately tested the area of least depth to the Moss Back.

In view of these circumstances, it is concluded that the area is not favorable for ore deposits of high enough grade to mine profitably and it is, therefore, recommended that this application for Government assistance be denied. I concur with these recommendations.

Enclosed is the brochure which accompanied this application.

The U. S. Atomic Energy Commission was consulted during the process of field examination.

D. R. Haynes
For J. William Hasler
Geologist

JWH/mlr
Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3738, Dolores Uranium Corporation, Slick Rock Mining District, San Miguel County, Colorado

Uranium

Geologic Report

by

Howard F. Albee and George C. Simmons
U. S. Geological Survey

June 16, 1955

INTRODUCTION

Application (DMEA docket No. 3738) has been made by the Dolores Uranium Corporation for Government assistance in exploring for uranium in the Slick Rock Mining district, San Miguel County, Colorado. The applicant proposes to explore seven groups of claims in T. 44 N., R. 19 W., T. 43 N., R. 19 W., and T. 43 N., R. 18 W. (fig. 1).

About 135 claims comprise the Red Canyon, Monument Valley, Slick Rock, Deer Valley, Cedar Flat, Bush Creek, and Faulte Flat groups. The applicant proposes 63,300 feet of diamond drilling to explore the Moss Back member of the Chinle formation at 89 sites on the claims. Two separate proposals, each totaling the same footage, were made. One proposal is for all footage to be non-core drilled at a total cost of $238,386. The alternate proposal is to plug bit to the Moss Back, then core the lower 50 feet of the Moss Back at a total cost of $254,106.00.

The subject property was examined May 25, 1955, by Howard F. Albee and George C. Simmons of the U. S. Geological Survey and Carl Belser of the U. S. Bureau of Mines, in company with B. G. Powell, representative for the applicant.

GEOLOGY

General stratigraphic and structural relations

The rocks underlying the Slick Rock mining district are comprised of Permian, Triassic, Jurassic, and Cretaceous strata. In ascending order they are: the Permian Cutler formation, the Triassic Chinle and Wingate formations, the Jurassic(?) Kayenta formation, the Jurassic Navajo sandstone, Carmel formation, and Entrada sandstone, the Summerville and Morrison formations, and the Cretaceous Burro Canyon formation and Dakota sandstone.

The Cutler formation is exposed in the Dolores River canyon about 4 miles southeast of the subject claims. The only complete section of the Chinle formation, which unconformably overlies the Cutler in the Slick Rock mining district, is exposed at this place.

The Chinle is exposed elsewhere only in part of Summit Canyon where the upper portion crops out for about three miles. The Chinle ranges from about 450 feet to 500 feet thick. The Wingate and Kayenta immediately overlie the Chinle and form vertical cliffs and broad benches respectively. The Wingate is about 250 feet thick and the Kayenta is about 200 feet thick. The overlying Navajo sandstone forms similar topographic features but in places it pinches out toward the axis of the Dolores anticline. The Navajo sandstone ranges from a wedge-edge to as much as 150 feet thick. The Carmel and Entrada sandstones usually form an impassable cliff above which are the ledgy slopes and benches of the Summerville and Morrison formations.

The main structural feature of the district is the northwest trending Dolores anticline. A series of parallel and en echelon normal faults that trend parallel to the anticlinal axis lie on the steeply dipping northeast limb. Most of the faults are downthrown to the north although some are downthrown on the south to form small grabens. The zone of faulting is in line with the Lisbon Valley fault to the northwest and may be an extension of it.

The Moss Back member

Little is known about the Moss Back in this area. In Lisbon Valley, about 15 miles to the northwest, the Moss Back is highly productive. However, where the Moss Back crops out in the Dolores Canyon, about 4 miles southeast of the subject claims, mining has not proved too successful. The outcrop is mineralized and shipments totaling 22 tons have been made from it. These shipments assayed only 0.09 percent U_3O_8, which was too low and consequently no payments were made.

The Moss Back in this area contains carbonaceous trash, especially in conglomeratic zones, and has many shale splits within it. Pyrite is abundant in seams and with the carbonaceous material. The Moss Back is, in part, a fine-grained sandstone and, in part, a siltstone pellet conglomerate with a fine-grained sand matrix. It averages about 50 feet thick.

Summary of drill hole information

A total of 97 claims was optioned by Newmont Exploration Limited in 1954 in the Summit Canyon area to explore possibilities for ore in the Moss Back member of the Chinle formation. Twenty holes were drilled that averaged 500 feet deep. The drill holes were spaced from 500 to 1,000 feet apart in the bottom of Summit Canyon and traversed the canyon for a distance of about 7,500 feet. The best hole indicated about 0.10 percent U_3O_8 from 476 to 478 feet. Some closer spaced holes were drilled in the vicinity of this favorable hole and results showed as much as 0.05 percent U_3O_8 through a narrow thickness.

North of and adjacent to this area, three holes were drilled by another claim owner. No uranium mineralization was observed in these holes nor did the counter show readings above background count.

Immediately north of these three holes and still in Summit Canyon, the Hunt Oil Company drilled 13 holes from which no mineralized material was found.

This amount of drilling in Summit Canyon has adequately tested the area of least depth to the Moss Back. No evidence of channels or scours were found at the base of the Moss Back.

The subject claims include three other areas through which canyons have been cut. The drilling program proposed by the Dolores Uranium Corporation would be mainly confined to these canyons in addition to more drilling in Summit Canyon and its tributaries. In the three canyons of Bush, Morrison, and Blue Creeks, the drilling depths would range from 700 feet to 900 feet. Because of the deep drilling depths, lack of known targets such as channels or scours, and probable small extent and thickness of mineralized material, it is concluded that drilling under DMEA would not be advisable at this time.

CONCLUSIONS AND RECOMMENDATION

Little is known of the Moss Back member of the Chinle formation in the Slick Rock mining district. The probability of ore deposits occuring in the area can be inferred only from the Dolores Canyon outcrop and from drill holes in Summit Canyon.

The relation of mineralized material to faults, if any, is not known. Two mineralized drill holes are on the trace of a fault; other drill holes, similarly situated are barren to slightly mineralized. No targets such as channels or scours are indicated, and known uranium mineralization is of small extent and thickness and of sub-marginal grade. The drilling depths are all from 500 feet to 1,000 feet deep. Such depths are prohibitive without a good geologic probability of finding large, high-grade ore bodies. Such a probability does not exist; therefore, it is recommended that the application be denied.

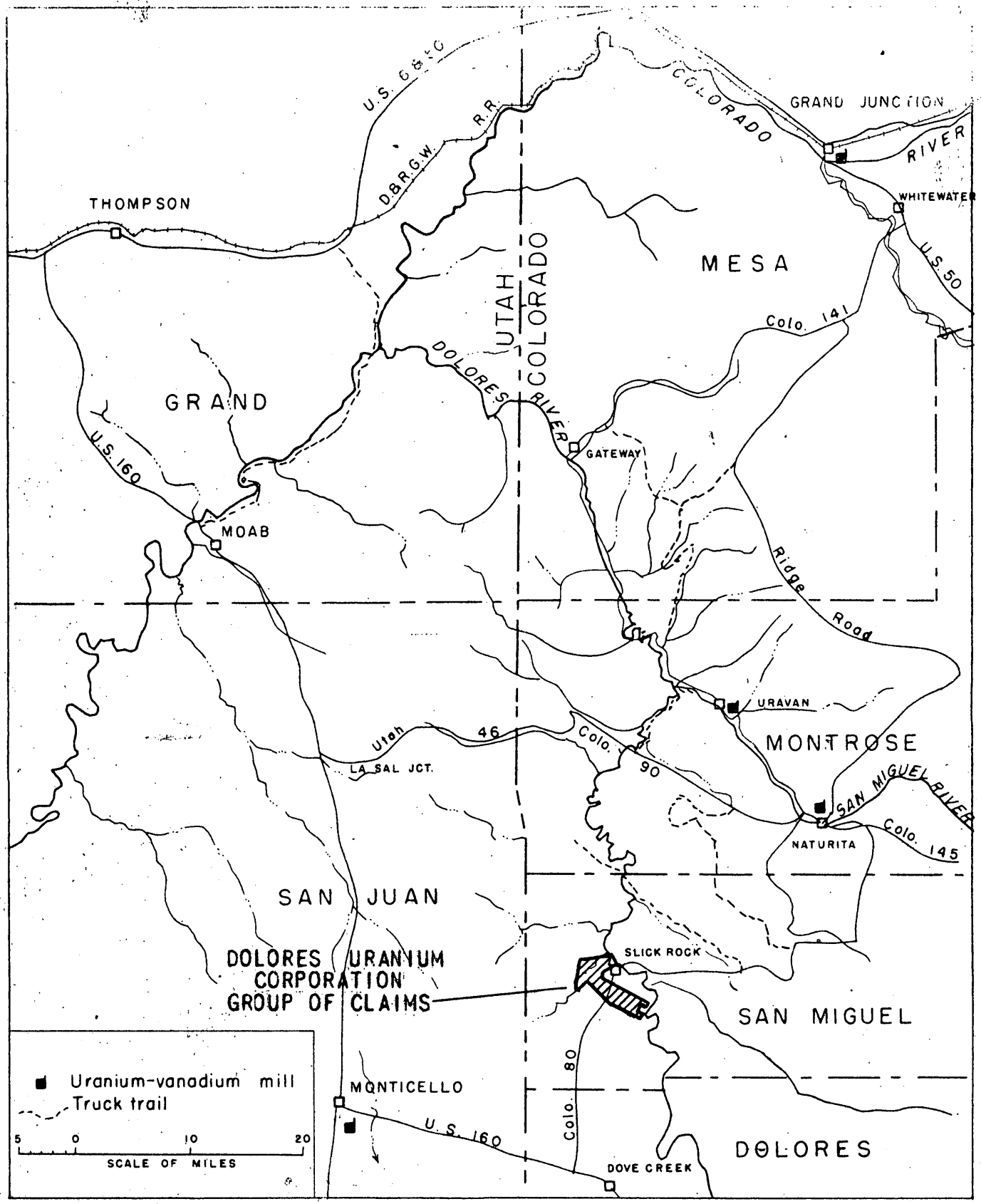


Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF DOLORES URANIUM CORPORATION GROUPS OF CLAIMS SAN MIGUEL COUNTY, COLORADO

McConkie and McConkie
Attorneys at Law
Suite 302 Zion's Savings Bank Building
Salt Lake City 1, Utah

C O P Y

16 April 55

Defense Minerals Administration
RECEIVED

United States Department of Interior
Defense Minerals Exploration Administration
Rare and Miscellaneous
Metals Division
Washington 25, D. C.

Attention: Mr. Ernest Wm. Ellis

Re: Docket No. DMEA 3738
Monument Valley et al:
San Miguel County, Colorado

Dear Sir:

We have sent you in separate package two (2) maps of the claims owned by Dolores Uranium Corporation. They were sent yesterday and should arrive by the time you receive this letter.

We hope that this information will make it possible for a speedy approval of our requested loan.

We are not prospecting in this area. We leased a portion of the area to Newmont Exploration Limited and they have just completed a comprehensive drilling program on it. We have sent you the drill logs and maps relative to this Newmont drilling program. They drilled fourteen (14) holes in which they report they encountered mineralization. Hole number 5 has low grade ore in it according to their report which you have.

Newmont encouraged us to seek a loan for the purpose of further exploring our property. Newmont is not continuing on the property we leased to them, but they felt, at least some of their geologist's felt that we should continued our program of drilling if the government would approve the loan.

The maps that we mailed yesterday will show the area in which the company believe a channel of uranium ore lies. The maps are marked with red dots to indicate proposed drilling sites. The Blue dots indicate where Newmont drilled and found mineralization. The claims are numbered on one of the maps but not the other.

The USGS maps show the Dolores Anticline and the faults. We believe that the known mineralization area as well as the low grade ore area makes it imperative that we continue our exploration work.

We would appreciate your cooperation and assure you that we will do all that is in our power to cooperate with you.

Respectfully yours,

/s/ F. Briton McConkie

FBM:bm

7/25/55 glc

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

224 New Customhouse
Denver 2, Colorado

July 12, 1955

RECEIVED
JUL 15 1955

Memorandum

To: Secretary to the Operating Committee, DMEA

From: DMEA Field Team, Region III

Subject: Report of Examination, DMEA Docket 3738 (Uranium)
Dolores Uranium Corporation, San Miguel County, Colorado

Enclosed are the original and three copies of the report pertaining to the above application.

Drilling results to date in this area have been unfavorable. There is a lack of geologic targets on the various claim groups. Drilling depths are from 500 to 1,000 feet and there is little possibility of a significant amount of uranium being discovered by the proposed exploration work.

We concur with the recommendation of the field examinersthat the application be denied.

DMEA Field Team, Region III

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Reviewed by
DMEA OPERATING COMMITTEE
7-18-55
(date)

TRANSMITTED
JUL 12 1955

DMEA
Date Rec'd
JUL 7 1955
RECEIVED
JUL 1 1955
BUREAU OF MINES
Denver, Colorado

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
July 6, 1955

Region III

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: DMEA 3738, (Uranium) Northeastern Slick Rock claims, Dolores Uranium Corporation, San Miguel County, Colorado

Enclosed are the original and eleven copies of a "Summary, Conclusions, and Recommendations" by Howard F. Albee, geologist, and Carl Balser, mining engineer and the original and eleven copies of an engineering report by Carl Balser covering docket DMEA 3738.

The Dolores Uranium Corporation applied for exploration assistance in the amount of $254,106.00 to explore their group of claims by 56,100 feet of drilling. A field examination was made on May 25, 1955, by Howard F. Albee and Carl Balser. The examining team concluded that there was little possibility of a significant amount of uranium being discovered by the proposed exploration work.

It is recommended that the application be denied.

John F. Shaw
John F. Shaw
Supervising Mining Engineer

Enclosures

cc 11 ✓
DMEA 3738
Chron

JFS/cm

7-18-55

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3738, Northeastern Slick Rock Claims

Dolores Uranium Corporation

San Miguel County, Colorado

Uranium

Howard F. Albee, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

June 27, 1955

Reviewed by
DMEA OPERATING COMMITTEE
7-18-55
(date)

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

Summary, Conclusions, and Recommendations

By Howard F. Albee
Geologist
Geological Survey

Carl Belser
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE
7-18-55
(date)

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By Howard F. Albee and Carl Belser

The Dolores Uranium Corporation, George Smart, president, 922 South Twenty-third East Street, Salt Lake City, Utah, has applied for Defense Minerals Exploration Administration aid in an exploration project consisting of 56,100 feet of drilling at an estimated cost of $254,106.00.

A field investigation was made on May 25, 1955 by an examining team from the Geological Survey and the Bureau of Mines. B. G. Powell, manager of Dolores Uranium Corporation, accompanied the team.

The northeastern Slick Rock claims, consisting of 20 Monument Valley claims, 23 Red Canyon claims, 12 Deer Valley claims, 24 Faulte Flat claims, 24 Cedar Flat claims, 20 Bush Creek claims, and 18 Slick Rock claims are in sections 6, 7, 8, 16, 17, 18, and 20, T. 43 N., R. 18 W.; sections 1, 2, 3, 4, and 12, T. 43 N., R. 19 W.; and sections 25, 26, 27, 34, 35, and 36, T. 44 N., R. 19 W., New Mexico principal meridian. In general the claims follow a series of northwesterly trending faults which may be connected with the south Lisbon Valley faults, and cover parts of Blue, Morrison, Bush Creek and Summit canyons. The exposed rocks range from the Chinle of the upper Triassic to rocks of the upper Jurassic. The proposed project called for drilling

in or near the bottoms of the canyons where the oldest exposed rock (Summit Canyon) is the upper part of the Chinle. The Chinle formation is about 500 feet thick, the overlying Wingate is 200 feet thick, the Kayenta, above the Wingate is not well defined, while the Navajo, in Summit Canyon, ranges from a few feet to several hundred feet. Cores from holes drilled by Newmont Exploration Limited, Hunt Oil Company, and Doyle indicate that the basal Chinle is a green colored sandstone, the bottom part of which is somewhat coarse and contains carbonaceous trash and green mudstone.

Only one canyon, Summit, has a road running along the bottom of the canyon. The construction of roads along the other three canyon bottoms would be costly, and nothing is known concerning the mineralization of the basal Chinle in those areas. The claims in Summit Canyon were recently drilled by Newmont Exploration Limited and, although some uranium mineralization was penetrated, no uranium ore was found.

As the Newmont drilling was almost identical to the DMEA pattern for this type of exploratory work, and as the drilling would be deeper in the other canyons and require considerable road construction, the examining team recommended that the application be denied.

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

Engineering Report

By Carl Belser
Mining Engineer
Bureau of Mines

Reviewed by
DMEA OPERATING COMMITTEE

(Date)

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

CONTENTS

Engineering report — Page

Introduction..... 1
Acknowledgements..... 1
Location, topography and climate..... 2
History and production..... 3
Ownership and extent..... 3
Description of the deposits..... 8
Minable ore reserves..... 9
Present status..... 9
    Exploration and development..... 9
    Mining and milling equipment and other facilities.. 9
Estimated cost of project..... 9
    Estimated cost of core drilling..... 9
Conclusions..... 11
Recommendations..... 11

ILLUSTRATIONS

Figure — Follows page

1. Location map, northeastern Slick Rock claims, Dolores Uranium Corporation, San Miguel County, Colo..... 2
2. Claim map showing proposed drilling locations, northeastern Slick Rock claims, Dolores Uranium Corporation, San Miguel County, Colo..... 2

DMEA 3738

NORTHEASTERN SLICK ROCK CLAIMS
DOLORES URANIUM CORPORATION
SAN MIGUEL COUNTY, COLORADO

ENGINEERING REPORT

By

Carl Belser

INTRODUCTION

The Dolores Uranium Corporation, 922 South Twenty-third East Street, Salt Lake City, Utah, on March 24, 1955, submitted an application to the Defense Minerals Exploration Administration for aid in an exploration project on northeastern Slick Rock claims in the Slick Rock mining district, San Miguel County, Colorado. The application, DMEA 3738, requested aid in drilling 83 holes (56,100 feet) at a total estimated cost of $254,106.00. This proposed exploration was to test the lower Chinle formation for uranium mineralization near the Chinle-Cutler contact.

A joint field examination was made by a Geological Survey and Bureau of Mines examining team on May 25, 1955. The examining team, as a result of their investigation recommended that the application be denied.

ACKNOWLEDGEMENTS

B. G. Powell, manager of Dolores Uranium Corporation, accompanied the examining team.

W. P. Williams, geologist, Colorado Plateau area, Geological Survey, Grand Junction, Colorado, assigned Howard F. Albee, geologist, to make the examination as the Geological Survey member of the team.

The Atomic Energy Commission was consulted regarding the area before the examination was made.

LOCATION, TOPOGRAPHY, AND CLIMATE

The northeastern Slick Rock claims of the Dolores Uranium Corporation are west of the Dolores River and on the northeast flank of the Dolores anticline in sections 6, 7, 8, 16, 17, 18, and 20, T. 43 N., R. 18 W., New Mexico principal meridian; sections 1, 2, 3, 4, and 12, T. 43 N., R. 19 W., New Mexico principal meridian; and sections 25, 26, 27, 34, 35, and 36, T. 44 N., R. 19 W., New Mexico principal meridian; Slick Rock mining district, San Miguel County, Colo. The 138 unpatented claims form an almost continuous chain of claims which are 6-1/2 miles long and are closely grouped in Summit, Bush Creek, Blue, and Morrison canyons (figs. 1 and 2).

A fair access road, 3 miles long connects with a county road two miles north of State Highway 80 at the Slick Rock bridge from whence Naturita is 44 miles to the east, Uravan 61 miles to the northeast, Norwood 52 miles to the east, Ridgway 92 miles to the east, Dove Creek, Colorado, 23 miles to the south, and Monticello, Utah, 46 miles to the northwest.

Labor and supplies are available in Naturita, Uravan, Dove Creek and Monticello. Ore mills and ore-buying depots are located at Naturita, Uravan, and Monticello. The nearest railway is the

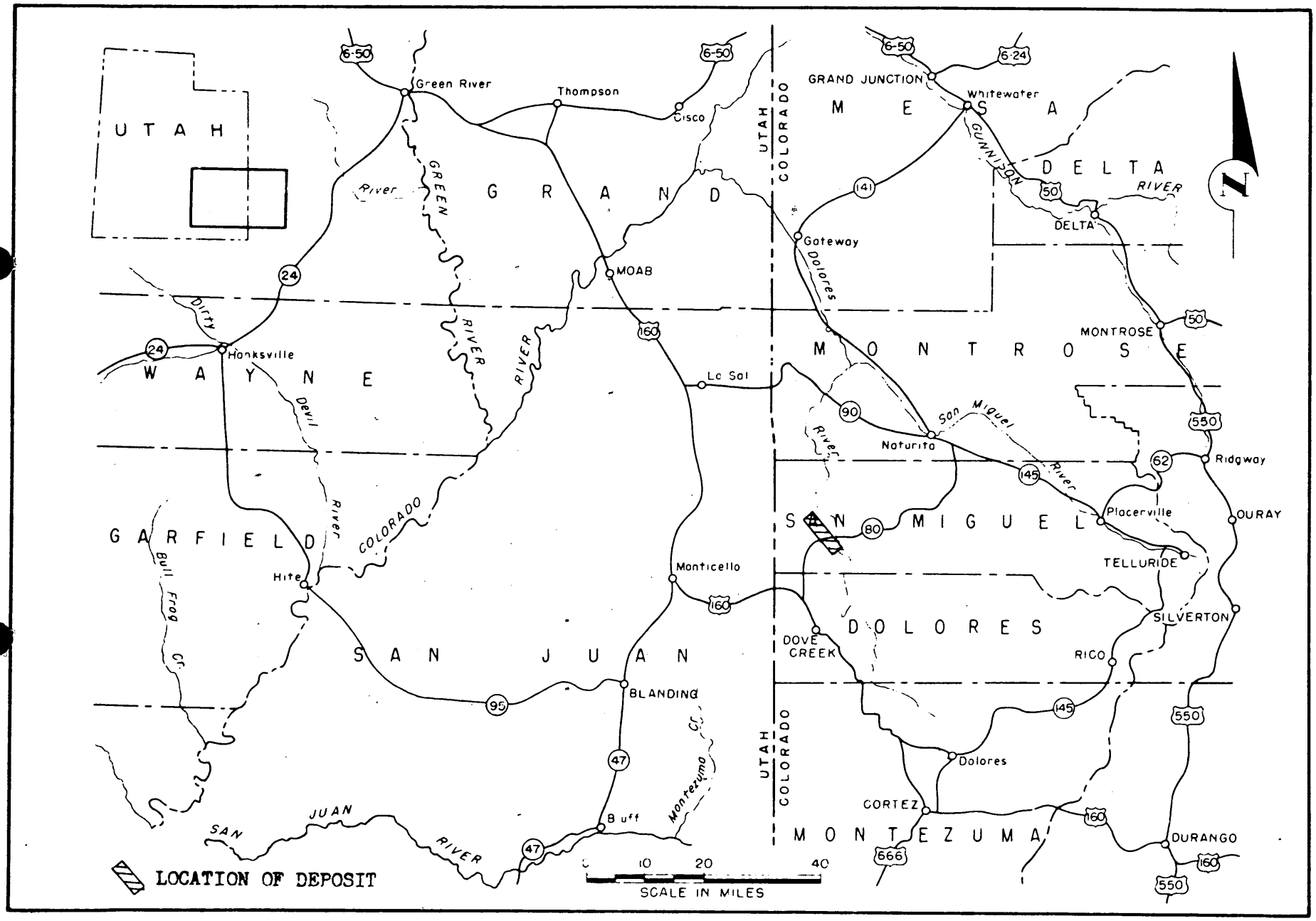


FIGURE 1 - LOCATION MAP, NORTHEASTERN SLI[illegible]ROCK CLAIMS, DOLORES URANIUM CORPORATION, SAN MIGUEL COUNTY, COLO. DMEA 3738

Denver and Rio Grande Western at Ridgway. Local native lumber and timber is obtainable and pinon, suitable for some mine uses, grows on the property.

Altitudes range from about 5,700 feet to 6,700 feet. Rainfall is light and the country is classed as semi-arid. Water for drilling purposes can be obtained from the Dolores river or by building small reservoirs in the canyons.

HISTORY AND PRODUCTION

To the north, east, and west of the property a sizable production has been made from deposits in the Morrison formation. The Dolores Uranium Corporation's claims were located in 1953 and 1954. The claims lie below the Morrison formation and were located to cover possible ore bodies near the Chinle-Cutler contact. A small amount of low-grade uranium ore has recently been mined from Muleshoe Bend, about 3 miles southeast of the property. No uranium ore has been shipped from any of the Dolores Uranium Corporation's claims but a small amount of uranium mineralization has been cut by drilling in Summit Canyon.

OWNERSHIP AND EXTENT

The claims are recorded in the office of the County Clerk and Recorder of San Miguel County, Colorado, as follows:

Claim	Book	Page	Date located	Date recorded	Locator	Amended book	Amended page	Amended date
Red Canyon #1	228	519	12/4/53	2/17/54	Melba S. Powell	240	125	8/14/54
Red Canyon #2	228	518	12/4/53	2/17/54	Barney G. Powell	240	126	8/14/54
Red Canyon #3	228	517	12/4/53	2/17/54	Byron Powell	240	127	8/14/54
Red Canyon #4	228	516	12/4/53	2/17/54	Melba S. Powell	240	128	8/14/54
Red Canyon #5	228	515	12/4/53	2/17/54	Blaine Powell	240	129	8/14/54
Red Canyon #6	228	514	12/4/53	2/17/54	Barney G. Powell	240	130	8/14/54

Claim	Book	Page	Date located	Date recorded	Locator	Amended book	Amended page	Amended date
Red Canyon #7	228	513	12/4/53	2/17/54	Melba S. Powell	240	131	8/14/54
Red Canyon #8	228	512	12/4/53	2/17/54	Byron Powell	240	132	8/14/54
Red Canyon #9	228	511	12/4/53	2/17/54	Stanford Powell	240	133	8/14/54
Red Canyon #10	228	510	12/4/53	2/17/54	Blaine Powell	240	134	8/14/54
Red Canyon #11	228	509	12/4/53	2/17/54	Blaine Powell	240	135	8/14/54
Red Canyon #12	228	508	12/4/53	2/17/54	Melba S. Powell	240	136	8/14/54
Red Canyon #13	228	507	12/4/53	2/17/54	Stanford Powell	240	137	8/14/54
Red Canyon #14	228	506	12/4/53	2/17/54	Blaine Powell	240	138	8/14/54
Red Canyon #15	228	505	12/4/53	2/17/54	Melba S. Powell	240	139	8/14/54
Red Canyon #16	228	504	12/4/53	2/17/54	Byron Powell	240	140	8/14/54
Red Canyon #17	228	503	12/4/53	2/17/54	Barney G. Powell	240	141	8/14/54
Red Canyon #18	228	502	12/4/53	2/17/54	Melba S. Powell	240	142	8/14/54
Red Canyon #19	228	501	12/4/53	2/17/54	Blaine Powell	240	143	8/14/54
Red Canyon #20	228	500	12/4/53	2/17/54	Stanford Powell	240	144	8/14/54
Red Canyon #21	230	350	(Cir. 7)	3/15/54		240	145	8/14/54
Red Canyon #22	230	351	(Cir. 7)	3/15/54		240	146	8/14/54
Red Canyon #23	230	352	(Cir. 7)	3/15/54		240	147	8/14/54
Deer Valley #1	228	531	12/3/53	2/17/54	B. G. Powell, et al	240	148	8/14/54
Deer Valley #2	228	523	12/3/53	2/17/54	B. G. Powell, et al	240	149	8/14/54
Deer Valley #3	228	522	12/3/53	2/17/54	B. G. Powell, et al	240	150	8/14/54
Deer Valley #4	228	530	12/3/53	2/17/54	B. G. Powell, et al	240	151	8/14/54
Deer Valley #5	228	527	12/3/53	2/17/54	B. G. Powell, et al	240	152	8/14/54
Deer Valley #6	228	529	12/3/53	2/17/54	B. G. Powell, et al	240	153	8/14/54
Deer Valley #7	228	521	12/3/53	2/17/54	B. G. Powell, et al	240	154	8/14/54
Deer Valley #8	228	520	12/3/53	2/17/54	B. G. Powell, et al	240	154	8/14/54
Deer Valley #9	228	528	12/3/53	2/17/54	B. G. Powell, et al	240	155	8/14/54
Deer Valley #10	228	524	12/3/53	2/17/54	B. G. Powell, et al	240	156	8/14/54
Deer Valley #11	228	525	12/3/53	2/17/54	B. G. Powell, et al	240	157	8/14/54
Deer Valley #12	228	526	12/3/53	2/17/54	B. G. Powell, et al	240	158	8/14/54
Faulte Flat #1	228	546	12/2/53	2/17/54	Melba S. Powell	240	184	8/17/54
Faulte Flat #2	228	545	12/2/53	2/17/54	Stanford Powell	240	185	8/17/54
Faulte Flat #3	228	544	12/2/53	2/17/54	Byron Powell	240	186	8/17/54
Faulte Flat #4	228	543	12/2/53	2/17/54	Melba S. Powell	240	187	8/17/54
Faulte Flat #5	228	542	12/2/53	2/17/54	Byron Powell	240	188	8/17/54
Faulte Flat #6	228	541	12/2/53	2/17/54	Blaine Powell	240	189	8/17/54
Faulte Flat #7	228	540	12/2/53	2/17/54	Melba S. Powell	240	190	8/17/54
Faulte Flat #8	228	539	12/2/53	2/17/54	Barney G. Powell	240	191	8/17/54
Faulte Flat #9	228	538	12/2/53	2/17/54	Barney G. Powell	240	192	8/17/54
Faulte Flat #10	228	537	12/2/53	2/17/54	Blaine Powell	240	193	8/17/54
Faulte Flat #11	228	536	12/2/53	2/17/54	Melba S. Powell	240	194	8/17/54
Faulte Flat #12	228	535	12/2/53	2/17/54	Stanford Powell	240	195	8/17/54
Faulte Flat #13	228	534	12/2/53	2/17/54	Byron Powell	240	196	8/17/54
Faulte Flat #14	228	533	12/2/53	2/17/54	Melba S. Powell	240	197	8/17/54
Faulte Flat #15	228	532	12/2/53	2/17/54	Blaine Powell	240	198	8/17/54
Faulte Flat #16	230	368	(Circ. 7)			240	199	8/17/54

Claim	Book	Page	Date located	Date recorded	Locator	Amended book	Amended page	Amended date
Faulte Flat #17	230	369	(Cir. 7)			240	200	8/17/54
Faulte Flat #18	230	370	(Cir. 7)			240	201	8/17/54
Faulte Flat #19	230	371	(Cir. 7)			240	202	8/17/54
Faulte Flat #20	230	372	(Cir. 7)			240	203	8/17/54
Faulte Flat #21	230	373	(Cir. 7)			240	204	8/17/54
Faulte Flat #22	230	374	(Cir. 7)			240	205	8/17/54
Faulte Flat #23	230	375	(Cir. 7)			240	206	8/17/54
Faulte Flat #24	230	376	(Cir. 7)			240	207	8/17/54
Cedar Flat #1	228	479	1/5/54	2/17/54	Melba S. Powell	240	160	8/15/54
Cedar Flat #2	228	478	1/5/54	2/17/54	Barney G. Powell	240	161	8/15/54
Cedar Flat #3	228	477	1/5/54	2/17/54	Byron Powell	240	162	8/15/54
Cedar Flat #4	228	476	1/5/54	2/17/54	Barney G. Powell	240	163	8/15/54
Cedar Flat #5	228	475	1/5/54	2/17/54	Blaine Powell	240	164	8/15/54
Cedar Flat #6	228	474	1/5/54	2/17/54	Stanford Powell	240	165	8/15/54
Cedar Flat #7	228	473	1/5/54	2/17/54	Byron Powell	240	166	8/15/54
Cedar Flat #8	228	472	1/5/54	2/17/54	Dale Smart	240	167	8/15/54
Cedar Flat #9	228	471	1/5/54	2/17/54	Blaine Powell	240	168	8/15/54
Cedar Flat #10	228	470	1/5/54	2/17/54	Barney G. Powell	240	169	8/15/54
Cedar Flat #11	228	469	1/5/54	2/17/54	Stanford Powell	240	170	8/15/54
Cedar Flat #12	228	468	1/5/54	2/17/54	Blaine Powell	240	171	8/15/54
Cedar Flat #13	228	467	1/5/54	2/17/54	Byron Powell	240	172	8/15/54
Cedar Flat #14	228	466	1/5/54	2/17/54	Stanford Powell	240	173	8/15/54
Cedar Flat #15	228	465	1/5/54	2/17/54	Melba S. Powell	240	174	8/15/54
Cedar Flat #16	228	464	1/5/54	2/17/54	Barney G. Powell	240	175	8/15/54
Cedar Flat #17	228	463	1/5/54	2/17/54	Melba S. Powell	240	176	8/15/54
Cedar Flat #18	228	462	1/5/54	2/17/54	Melba S. Powell	240	177	8/15/54
Cedar Flat #19	228	461	1/5/54	2/17/54	Barney G. Powell	240	178	8/15/54
Cedar Flat #20	230	324	(Cir. 7)	3/15/54		240	179	8/15/54
Cedar Flat #21	230	325	(Cir. 7)	3/15/54		240	180	8/15/54
Cedar Flat #22	230	326	(Cir. 7)	3/15/54		240	181	8/15/54
Cedar Flat #23	230	327	(Cir. 7)	3/15/54		240	182	8/15/54
Cedar Flat #24	230	328	(Cir. 7)	3/15/54		240	183	8/15/54
Monument Valley #1	228	499	12/2/53	2/17/54	Melba S. Powell	240	105	8/18/54
Monument Valley #2	228	498	12/2/53	2/17/54	Floyd Smart	240	106	8/18/54
Monument Valley #3	228	497	12/2/53	2/17/54	Barney G. Powell	240	107	8/18/54
Monument Valley #4	228	496	12/2/53	2/17/54	Melba S. Powell	240	108	8/18/54
Monument Valley #5	228	495	12/2/53	2/17/54	Blaine Powell	240	109	8/18/54
Monument Valley #6	228	494	12/2/53	2/17/54	Byron Powell	240	110	8/18/54
Monument Valley #7	228	493	12/2/53	2/17/54	Melba S. Powell	240	111	8/18/54
Monument Valley #8	228	492	12/2/53	2/17/54	Stanford Powell	240	112	8/18/54
Monument Valley #9	228	491	12/2/53	2/17/54	Byron Powell	240	113	8/18/54
Monument Valley #10	228	490	12/2/53	2/17/54	Melba S. Powell	240	114	8/18/54
Monument Valley #11	228	489	12/2/53	2/17/54	Blaine Powell	240	115	8/18/54
Monument Valley #12	228	488	12/2/53	2/17/54	Barney G. Powell	240	116	8/18/54
Monument Valley #13	228	487	12/2/53	2/17/54	Melba S. Powell	240	117	8/18/54
Monument Valley #14	228	486	12/2/53	2/17/54	Barney G. Powell	240	118	8/18/54

Claim	Book	Page	Date located	Date recorded	Locator	Amended book	Amended page	Amended date
Monument Valley #15	228	485	12/2/53	2/17/54	Dale Smart	240	119	8/18/54
Monument Valley #16	228	484	12/2/53	2/17/54	Melba S. Powell	240	120	8/18/54
Monument Valley #17	228	483	12/2/53	2/17/54	Blaine Powell	240	121	8/18/54
Monument Valley #18	228	482	12/2/53	2/17/54	Barney G. Powell	240	122	8/18/54
Monument Valley #19	228	481	12/2/53	2/17/54	Melba S. Powell	240	123	8/18/54
Monument Valley #20	228	480	12/2/53	2/17/54	Barney G. Powell	240	124	8/18/54
Slick Rock #1	235	335	3/15/54	5/28/54	Slick Rock Uranium Company	240	228	8/16/54
Slick Rock #2	235	336	3/15/54	5/28/54	do.	240	229	8/16/54
Slick Rock #3	235	337	3/15/54	5/28/54	do.	240	230	8/16/54
Slick Rock #4	235	338	3/15/54	5/28/54	do.	240	231	8/16/54
Slick Rock #5	235	339	3/15/54	5/28/54	do.	240	232	8/16/54
Slick Rock #6	235	340	3/15/54	5/28/54	do.	240	233	8/16/54
Slick Rock #7	235	341	3/15/54	5/28/54	do.	240	234	8/16/54
Slick Rock #8	235	342	3/15/54	5/28/54	do.	240	235	8/16/54
Slick Rock #9	235	343	3/15/54	5/28/54	do.	240	236	8/16/54
Slick Rock #10	235	344	3/15/54	5/28/54	do.	240	237	8/16/54
Slick Rock #11	235	345	3/15/54	5/28/54	do.	240	238	8/16/54
Slick Rock #12	235	346	3/15/54	5/28/54	do.	240	239	8/16/54
Slick Rock #13	235	347	3/15/54	5/28/54	do.	240	240	8/16/54
Slick Rock #14	235	348	3/15/54	5/28/54	do.	240	241	8/16/54
Slick Rock #15	235	349	3/15/54	5/28/54	do.	240	242	8/16/54
Slick Rock #16	235	350	3/15/54	5/28/54	do.	240	243	8/16/54
Slick Rock #17	235	351	3/15/54	5/28/54	do.	240	244	8/16/54
Slick Rock #18	235	352	3/15/54	5/28/54	do.	240	245	8/16/54
Bush Creek #1	235	380	3/5/54	5/28/54	do.	240	208	8/17/54
Bush Creek #2	235	381	3/5/54	5/28/54	do.	240	209	8/17/54
Bush Creek #3	235	382	3/5/54	5/28/54	do.	240	210	8/17/54
Bush Creek #4	235	383	3/5/54	5/28/54	do.	240	211	8/17/54
Bush Creek #5	235	384	3/5/54	5/28/54	do.	240	212	8/17/54
Bush Creek #6	235	385	3/5/54	5/28/54	do.	240	213	8/17/54
Bush Creek #7	235	386	3/5/54	5/28/54	do.	240	214	8/17/54
Bush Creek #8	235	387	3/5/54	5/28/54	do.	240	215	8/17/54
Bush Creek #9	235	388	3/5/54	5/28/54	do.	240	216	8/17/54
Bush Creek #10	235	389	3/5/54	5/28/54	do.	240	217	8/17/54
Bush Creek #11	235	390	3/5/54	5/28/54	do.	240	218	8/17/54
Bush Creek #12	235	391	3/5/54	5/28/54	do.	240	219	8/17/54
Bush Creek #13	235	392	3/5/54	5/28/54	do.	240	220	8/17/54
Bush Creek #14	235	393	3/5/54	5/28/54	do.	240	221	8/17/54
Bush Creek #15	235	394	3/5/54	5/28/54	do.	240	222	8/17/54
Bush Creek #16	235	395	3/5/54	5/28/54	do.	240	223	8/17/54
Bush Creek #17	235	396	3/5/54	5/28/54	do.	240	224	8/17/54
Bush Creek #18	235	397	3/5/54	5/28/54	do.	240	225	8/17/54
Bush Creek #19	235	398	3/5/54	5/28/54	do.	240	226	8/17/54
Bush Creek #20	235	399	3/5/54	5/28/54	do.	240	227	8/17/54

The Monument Valley group is in sections 26, 27, 34, and 35, T. 44 N., R. 19 W., New Mexico principal meridian.

The Red Canyon group is in sections 34 and 35, T. 44 N., R. 19 W., and sections 2, 3, and 4, T. 43 N., R. 19 W., New Mexico principal meridian.

The Deer Valley claims are in section 35, T. 44 N., R. 19 W., and section 2, T. 44 N., R. 19 W., New Mexico principal meridian.

The Cedar Flat group is in sections 1, 2, and 12, T. 43 N., R. 19 W., and sections 6 and 7, T. 43 N., R. 18 W., New Mexico principal meridian.

The Slick Rock claims are in sections 25, 26, 34, and 35, T. 44 N., R. 19 W., New Mexico principal meridian.

The Bush Creek group is in sections 6 and 7, T. 43 N., R. 18 W., and sections 2 and 12, T. 43 N., R. 19 W., New Mexico principal meridian.

The Faulte Flat claims are in sections 7, 8, 16, 17, 18, 20, and 21, T. 43 N., R. 18 W., New Mexico principal meridian.

Since the above were recorded the Newmont Exploration Limited leased the Summit Canyon area and made a resurvey of the claims, which were relocated as the Pete Nos. 1 to 13, 15 to 23 and 25 to 58 and the Gus Nos. 1 to 28--a total of 75 claims. These claims have been recorded by the Dolores Uranium Corporation and cover most of the Monument Valley, Deer Valley, Red Canyon, and Slick Rock groups.

DESCRIPTION OF THE DEPOSITS

The uranium deposition occurs near the base of the Chinle formation. The Chinle is about 500 feet thick and the overlying Wingate is about 250 feet thick. Apparently the Chinle rests on the Cutler formation and all the formations dip gently to the northeast. In the Summit Canyon area the upper part of the Chinle is exposed but it is not exposed in the canyons to the south. Southeasterly striking faults cut the claims. These faults are in line with the Lisbon Valley fault to the northwest and between some of them small grabens are formed.

The Moss Back formation near Muleshow Bend is about 50 feet thick and appears, from cores drilled by Newmont Exploration Limited, to be about the same in Summit Canyon. Newmont drilled 20 holes spaced from 500 to 1,000 feet apart. The best hole indicated about 0.10 percent of U_3O_8 for a 2-foot interval. Offset holes were drilled but the uranium mineralization was thin and of low grade. Three holes were drilled adjacent to the claims by Doyle, and the Hunt Oil Company drilled 13 others without finding uranium mineralization. The Newmont holes were drilled from the canyon floor and averaged about 500 feet in depth. In the other canyons no work has been done, access roads would be costly to build, and drilling would be from 200 to 500 feet deeper.

The area of least depth to the Moss Back (Summit Canyon) has been adequately tested with 36 holes, and gives no evidence of uranium ore or channels.

MINABLE ORE RESERVES

There are no known minable ore reserves on the property.

PRESENT STATUS

Exploration and Development

With the exception of the 20 holes drilled by Newmont Exploration Limited, no exploration or development, other than claim locations, has been done.

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment on the property and the only facilities consist of an access road in Summit Canyon and a short access road into Bush Canyon.

ESTIMATED COST OF PROJECT

The application, as submitted, calls for 83 drill holes to be drilled in locations shown on figure 2 and totaling 56,100 feet of drilling.

Estimated Cost of Core Drilling

The applicant expects to subcontract all core drilling and access-road building to independent contractors. The applicant's estimated costs are as follows:

Independent contracts

Bulldozing roads and drill sites		
850 hours at $12.50 per hour	$10,625.00	
56,100 feet of drilling, with the bottom 50 feet of each hole cored at $3.87+ per foot	217,375.00	
Total independent contracts		$228,000.00

Labor and supervision		
Labor - none		
Supervision		
Geologist - 6 months at $600.00 per month	$3,600.00	
Supervisor - 6 months at $600.00 per month	3,600.00	
Total labor and supervision		$ 7,200.00
Operating materials and supplies		
50 core boxes at $10.00 each	500.00	
Gas and oil - $400.00 a month for 6 months	2,400.00	
Powder and supplies	546.00	
Total operating materials and supplies		3,446.00
Operating equipment		
Rental		
Gardner-Denver 105 compressor - 4 months at $265.00 per month	1,060.00	
Total operating equipment		1,060.00
Initial rehabilitation and repairs		
None		
New buildings, equipment, etc.		
None		
Miscellaneous		
Electric logging - 6 months at $2,400.00 per month	14,400.00	
Total miscellaneous		14,400.00
Total estimated cost for drilling 56,100 feet		**$254,106.00**
Average cost per foot		$ 4.53
Government participation, 75 percent		$190,579.50

The applicant lists a high logging cost but no labor although he has a compressor rented for 4 months for road building. Also payroll taxes and insurance are not shown.

CONCLUSIONS

The Summit Canyon area has been adequately explored by 36 drill holes. Most of these holes were negative and none of the holes penetrated uranium ore. The drilling by Newmont Exploration Limited was almost identical to that which would have been done under a DMEA project. The Bush, Morrison, and Blue Canyon claims require deeper drilling and considerable road work. The Moss Back member of the Chinle formation is unexplored in this area and any drilling for the Chinle-Cutler contact in this area would be prospecting and not exploration.

RECOMMENDATIONS

It is recommended, by the examining team, that the application be denied.

/cm

COPY

Mr. B. G. Powell
922 South 23rd. East
Salt Lake City, Utah

May 16, 1955

SUMMARY AND CONCLUSIONS:

A total of 97 claims was optioned by Newmont Exploration Limited in October, 1954 in the Summit Canyon area to explore the ore possibilities of the Mossback member at the base of the Chinle Formation.

In the period from November, 1954 to March 1955, a major portion of the optioned ground was restaked, 111 discovery pits were dug, a short geophysical survey was carried out, and 20 holes were drilled averaging 500 feet in depth.

Minor radioactivity was found to be localized along the contact of the grey sandstone Mossback member with the underlying brown Cutler shales. The best hole, S.C. No. 5 indicated about 0.10% U_3O_8 from 476 to 478 feet, while the other holes showed radioactivity ranging from nil and trace to 0.05% U_3O_8 over narrow thicknesses. No evidence of any major channelling or scouring in the top of the Cutler formation was found.

Location:

The approximate centre of the drilling locations in Summit Canyon was at latitude 38°01'40"N, longitude 108°56'22"W, near the mouth of Stevens Canyon.

The claims covered parts of sections 3 and 4, T43N, R19W and parts of sections 33, 34 and 35, T44N, R19W, in San Miguel County, Colorado as shown on the accompanying map.

Access to the property is by travelling eleven miles northeast of Egnar, Colorado on the Dove Creek-Naturita highway, then along a road for three miles which branches to the northeast following the south side of the Dolores River, thence by a jeep road up Summit Canyon for about three miles to the drill locations. Other jeep roads traverse the canyon rims.

The topography of the Summit Canyon area is typical of the rugged semi-arie Colorado Plateau, with the nearly horizontal, slightly warped sedimentary strata deeply incised by youthful canyons having almost vertical walls. The altitude is from 5800 to 6600 feet.

Water flows down the canyon in a small stream during the spring run-off and after the infrequent rains, with a little seepage in places throughout the year. Otherwise, water may be hauled from the Dolores River at the foot of Summit Canyon.

COPY

Geology:

Areal and Local:

The areal geology of the region as contained within the Horse Range Mesa Quadrangle shows bed rock exposures ranging from the Burro Canyon sandstones, conglomerates and shales of Cretaceous age to the Triassic Chinle shales. There is but little overburden anywhere, and the most prominent exposures are the massive sandstone formations such as the Entrada, Navajo and Wingate.

Structural units within the area are few. The assymetrical Dolores anticline which crosses Summit Canyon, exhibits a gently dipping south limb and a steeper dipping north flank. A zone of northwest south-east, an echelon, steeply dipping, normal faults cuts the canyon. These faults show only minor movement where they intersect Summit Canyon.

Locally, where the drilling was carried out from the alluvium covered floor of the canyon, the walls rise almost vertically for 300 feet through the reddish brown Chinle shales, brownish yellow, massive, cross-bedded Wingate sandstone, Purplish-red, ledgy sloped Kayenta sandstone and are capped by yellowish-grey, cross-bedded Navajo sandstone which forms rounded slopes and benches. A slight angular unconformity shows at the base of the Wingate sandstone.

Drill Hole Geology:

The condensed logs of the twenty holes drilled are shown on the accompanying section.

The horizon sought by each of the drill holes as being potentially uranium bearing was the Mossback sandstone member found at the base of the Chinle shales. Large ore bodies have been found in the Mossback in the Big Indian Wash area and elsewhere.

In the Summit Canyon the unconformible contact of the base of the Triassic Mossback member with the Permian Cutler shales showed minor radioactivity in most of the holes drilled. It was hoped that channels and scours might be found cut into the top of the Cutler formation which would have formed traps for carbonaceous trash and therefore been favorable for uranium deposition. Additional, more closely spaced drilling was done around the two most radioactive holes, S.C. No. 5 and S.C. No. 16 in an attempt to find channels, but none were found.

COPY

In the line of holes drilled down Summit Canyon those near either end of the line proved blank, with only the area between holes S.C. No. 4 and S.C. No. 8 showing significant radioactivity. The radioactivity found in this central section may be related to faulting, as holes S.C. No. 5 and S.C. No. 16 are close to a line of minor fault movement. Other holes drilled near faults however showed only faint radioactivity.

The grey clean cut off with the underlying reddish, banded and mottled Cutler shales, though a few feet of grey shale is present locally at the Mossback base. In some holes the upper part of the Mossback was a siltstone, thus forming a gradational phase between the grey shales above and the similarly colored, fine grained sandstones below, and making a thickness determination of the Mossback member difficult and uncertain.

The Mossback sandstone generally contained flecks and seams of carbon in small amounts, while the conglomerate bands usually had both carbon seams and crystals of pyrite.

Indicated Radioactivity from Gamma Logs:

The degree of radioactivity as measured by a gamma probe in counts per second together with a combined interpretation of its equivalent in % U_3O_8 as scaled from a graphy supplied by Century Geophysical Corporation and by Mr. D. Wagg, Geophysicist, Newmont Exploration Ltd., is as follows:

Hole No.	From	To	Thick	C.P.S.	Equivalent %U_3O_8
S.C. #1				Background	
#2				Background	
#3				Background	
#4	449	450	1	40	0.01 - 0.05
#5	476	478	2	150	0.09 - 0.15
#6	At 362 and 415			18	Trace
#7				Background	
#8	507	508	1	25	Tr. - 0.01
#9	466	468	2	22	Tr. - 0.01
#10	466	468	2	40	0.01 - 0.05
#11				Background	
#12	457	460	3	25	Tr. - 0.01
#13	470	472	2	61	0.02 - 0.06
#14	487	489	2	20	Tr. - 0.01
#15				Background	
#16	466-1/2	469	2-1/2	105	0.05 - 0.08
#17	452	454	2	30	Tr. 0 - 0.02
#18				Background	
#19	480	483	3	26	Tr. - 0.01
#20	465	468	3	32	Tr. - 0.03

COPY

No definite channel has so far been clearly indicated. The mineralization area discovered by the drilling treds north of west in the same direction as the faulting on the north side of the Dolores Anticline.

Sincerely yours

(s) G.W.H. Norman

by D.B.

GWHN:db
Encls.

TRANSMITTED
JUL 12 1955

IN REPLY REFER TO:
DMEA
Date Rec'd
JUN 29 1955
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver, Colorado

TRANSMITTED
JUL 12 1955

June 23, 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3758, (Uranium), Dolores Uranium Corporation, Slick Rock Mining district, San Miguel County, Colorado

Enclosed are 10 copies of a geologic report by Leonard F. Albee and George C. Simmons, U. S. Geological Survey, covering their examination of the subject property.

Based on the unfavorable results of drilling already done in the Summit Canyon area, the lack of geologic targets on the various claim groups, and the probability that ore bodies, if found, will be small, low grade and located at depths of from 500 to 1,000 feet, they conclude that exploration on the subject claims is not warranted. They recommend denial of the application for exploration assistance.

I concur with the recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

EHHarshman:arh

TRANSMITTED
JUL 12 1955

U. S. MINERAL DEPOSITS
DMEA
RECEIVED
JUN 21 1955
U. S.
GEOLOGICAL SURVEY
DENVER COLORADO

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
COLORADO PLATEAU DISTRICT
P. O. BOX 360
GRAND JUNCTION, COLORADO

June 16, 1955

Memorandum

To: E. N. Harshman, DMEA Field Team, Region III

From: J. William Hasler

Subject: DMEA 3738, Dolores Uranium Corporation, Slick Rock mining district, San Miguel County, Colo.

Transmitted herewith are 12 copies (one of which is to be transmitted to John F. Shaw, U. S. Bureau of Mines) of a geologic report by Howard F. Albee and George C. Simmons of U. S. Geological Survey, covering a field examination of the above-referenced property, made May 25, 1955.

Mr. Albee concludes that the probability of ore deposits occurring in the area can be inferred only from the Dolores Canyon outcrop and from drill holes in Summit Canyon. The relation of mineralized material to faults, if any, is not known. Two mineralized holes are on the trace of a fault and other drill holes similarly situated are barren to slightly mineralized. No targets such as channels or scours are indicated and known mineralization is of small extent and thickness and is of sub-marginal grade. The drilling depths are from 500 to 1,000 feet and such depths are rather prohibitive without good geologic probability of finding large high-grade ore bodies. The general area has been tested by several private companies, none of which have proven favorable. This drilling in the Summit Canyon area has adequately tested the area of least depth to the Moss Back.

In view of these circumstances, it is concluded that the area is not favorable for ore deposits of high enough grade to mine profitably and it is, therefore, recommended that this application for Government assistance be denied. I concur with these recommendations.

Enclosed is the brochure which accompanied this application.

The U. S. Atomic Energy Commission was consulted during the process of field examination.

D. P. Haynes
For J. William Hasler
Geologist

JWH/mlr
Enclosures

Reviewed by
DMEA OPERATING COMMITTEE

(date)

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION
REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3738, Dolores Uranium Corporation, Slick Rock Mining District, San Miguel County, Colorado

Uranium

Geologic Report

by

Howard F. Albee and George C. Simmons
U. S. Geological Survey

June 16, 1955

Reviewed by
DMEA OPERATING OFFICER

INTRODUCTION

Application (DMEA docket No. 3738) has been made by the Dolores Uranium Corporation for Government assistance in exploring for uranium in the Slick Rock Mining district, San Miguel County, Colorado. The applicant proposes to explore seven groups of claims in T. 44 N., R. 19 W., T. 43 N., R. 19 W., and T. 43 N., R. 18 W. (fig. 1).

About 135 claims comprise the Red Canyon, Monument Valley, Slick Rock, Deer Valley, Cedar Flat, Bush Creek, and Faulte Flat groups. The applicant proposes 63,300 feet of diamond drilling to explore the Moss Back member of the Chinle formation at 89 sites on the claims. Two separate proposals, each totaling the same footage, were made. One proposal is for all footage to be non-core drilled at a total cost of $238,386. The alternate proposal is to plug bit to the Moss Back, then core the lower 50 feet of the Moss Back at a total cost of $254,106.00.

The subject property was examined May 25, 1955, by Howard F. Albee and George C. Simmons of the U. S. Geological Survey and Carl Belser of the U. S. Bureau of Mines, in company with B. G. Powell, representative for the applicant.

GEOLOGY

General stratigraphic and structural relations

The rocks underlying the Slick Rock mining district are comprised of Permian, Triassic, Jurassic, and Cretaceous strata. In ascending order they are: the Permian Cutler formation, the Triassic Chinle and Wingate formations, the Jurassic(?) Kayenta formation, the Jurassic Navajo sandstone, Carmel formation, and Entrada sandstone, the Summerville and Morrison formations, and the Cretaceous Burro Canyon formation and Dakota sandstone.

The Cutler formation is exposed in the Dolores River canyon about 4 miles southeast of the subject claims. The only complete section of the Chinle formation, which unconformably overlies the Cutler in the Slick Rock mining district, is exposed at this place.

The Chinle is exposed elsewhere only in part of Summit Canyon where the upper portion crops out for about three miles. The Chinle ranges from about 450 feet to 500 feet thick. The Wingate and Kayenta immediately overlie the Chinle and form vertical cliffs and broad benches respectively. The Wingate is about 250 feet thick and the Kayenta is about 200 feet thick. The overlying Navajo sandstone forms similar topographic features but in places it pinches out toward the axis of the Dolores anticline. The Navajo sandstone ranges from a wedge-edge to as much as 150 feet thick. The Carmel and Entrada sandstones usually form an impassable cliff above which are the ledgy slopes and benches of the Summerville and Morrison formations.

The main structural feature of the district is the northwest trending Dolores anticline. A series of parallel and en echelon normal faults that trend parallel to the anticlinal axis lie on the steeply dipping northeast limb. Most of the faults are downthrown to the north although some are downthrown on the south to form small grabens. The zone of faulting is in line with the Lisbon Valley fault to the northwest and may be an extension of it.

The Moss Back member

Little is known about the Moss Back in this area. In Lisbon Valley, about 15 miles to the northwest, the Moss Back is highly productive. However, where the Moss Back crops out in the Dolores Canyon, about 4 miles southeast of the subject claims, mining has not proved too successful. The outcrop is mineralized and shipments totaling 22 tons have been made from it. These shipments assayed only 0.09 percent U_3O_8, which was too low and consequently no payments were made.

The Moss Back in this area contains carbonaceous trash, especially in conglomeratic zones, and has many shale splits within it. Pyrite is abundant in seams and with the carbonaceous material. The Moss Back is, in part, a fine-grained sandstone and, in part, a siltstone pellet conglomerate with a fine-grained sand matrix. It averages about 50 feet thick.

Summary of drill hole information

A total of 97 claims was optioned by Newmont Exploration Limited in 1954 in the Summit Canyon area to explore possibilities for ore in the Moss Back member of the Chinle formation. Twenty holes were drilled that averaged 500 feet deep. The drill holes were spaced from 500 to 1,000 feet apart in the bottom of Summit Canyon and traversed the canyon for a distance of about 7,500 feet. The best hole indicated about 0.10 percent U_3O_8 from 476 to 478 feet. Some closer spaced holes were drilled in the vicinity of this favorable hole and results showed as much as 0.05 percent U_3O_8 through a narrow thickness.

North of and adjacent to this area, three holes were drilled by another claim owner. No uranium mineralization was observed in these holes nor did the counter show readings above background count.

Immediately north of these three holes and still in Summit Canyon, the Hunt Oil Company drilled 13 holes from which no mineralized material was found.

This amount of drilling in Summit Canyon has adequately tested the area of least depth to the Moss Back. No evidence of channels or scours were found at the base of the Moss Back.

The subject claims include three other areas through which canyons have been cut. The drilling program proposed by the Dolores Uranium Corporation would be mainly confined to these canyons in addition to more drilling in Summit Canyon and its tributaries. In the three canyons of Bush, Morrison, and Blue Creeks, the drilling depths would range from 700 feet to 900 feet. Because of the deep drilling depths, lack of known targets such as channels or scours, and probable small extent and thickness of mineralized material, it is concluded that drilling under DMEA would not be advisable at this time.

CONCLUSIONS AND RECOMMENDATION

Little is known of the Moss Back member of the Chinle formation in the Slick Rock mining district. The probability of ore deposits occuring in the area can be inferred only from the Dolores Canyon outcrop and from drill holes in Summit Canyon.

The relation of mineralized material to faults, if any, is not known. Two mineralized drill holes are on the trace of a fault; other drill holes, similarly situated are barren to slightly mineralized. No targets such as channels or scours are indicated, and known uranium mineralization is of small extent and thickness and of sub-marginal grade. The drilling depths are all from 500 feet to 1,000 feet deep. Such depths are prohibitive without a good geologic probability of finding large, high-grade ore bodies. Such a probability does not exist; therefore, it is recommended that the application be denied.

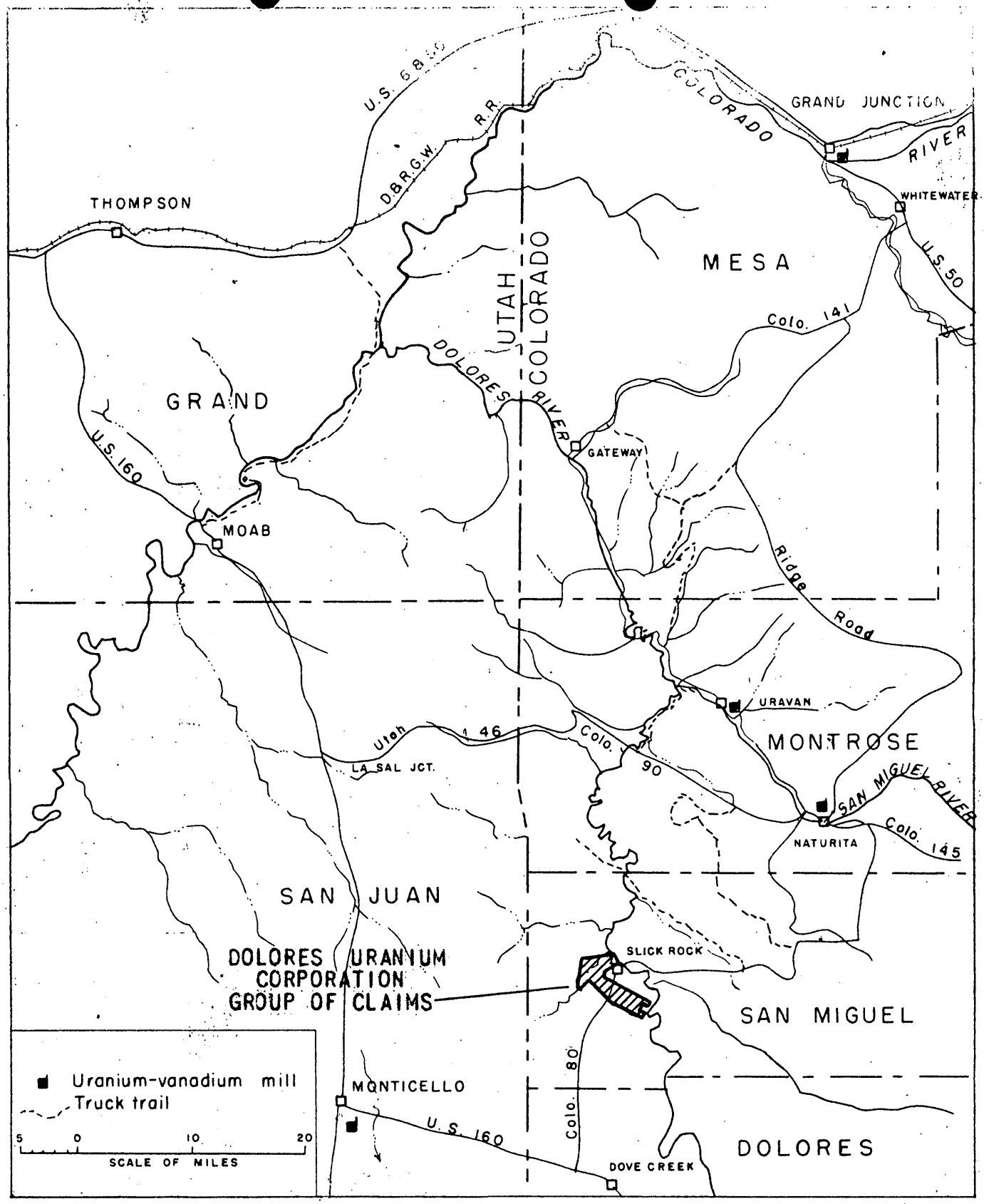


Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF DOLORES URANIUM CORPORATION GROUPS OF CLAIMS SAN MIGUEL COUNTY, COLORADO

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

224 New Customhouse
Denver 2, Colorado

May 10, 1955

Memorandum

To: J. F. Shaw (w/brochure)
W. P. Williams

From: Field Team, Region III

Subject: Docket DMEA-3738 (Uranium), Dolores Uranium Corp., (Monument Valley et al groups), San Miguel County, Colorado

Enclosed are copies of the subject loan application for $492,492.00, its transmittal by the Chairman of the Operating Committee, and memoranda to E. W. Ellis from J. E. Crawford, USBM, and R. D. Trace, USGS, members of the Uranium Commodity Committee. One copy of Century Geological Corporation radiometric drill logs of Newmont Exploration Limited holes are included with Shaw's copy of the application.

In addition, there are included copies of a letter from E. W. Ellis to the applicant requesting additional information and replies from Leland J. Davis, consulting geologist and F. Brixton McConkie for the applicant. Mr. McConkie's letter has two maps attached and it is assumed copies of these maps are included with the Survey's copy of the application forwarded to the field direct from Washington.

The application, considered as bordering on prospecting, is referred for field examination and covering reports without comment. It should be discussed with the Grand Junction office of the AEC prior to the field examination.

W. M. TRAVER,

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

WMT:pw

cc: Subject
Chron
Harshman
Sec.Op.Comm. (2)

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

224 New Customhouse
Denver 2, Colorado

May 18, 1955

Memorandum

To: J. F. Shaw (w/brochure)
W. P. Williams

From: Field Team, Region III

Subject: Docket DMEA-3738 (Uranium), Dolores Uranium Corp., (Monument Valley et al groups), San Miguel County, Colorado

Enclosed are copies of the subject loan application for $492,492.00, its transmittal by the Chairman of the Operating Committee, and memoranda to E. W. Ellis from J. E. Crawford, USBM, and R. D. Trace, USGS, members of the Uranium Commodity Committee. One copy of Century Geological Corporation radiometric drill logs of Newmont Exploration Limited holes are included with Shaw's copy of the application.

In addition, there are included copies of a letter from E. W. Ellis to the applicant requesting additional information and replies from Leland J. Davis, consulting geologist and F. Briton McConkie for the applicant. Mr. McConkie's letter has two maps attached and it is assumed copies of these maps are included with the Survey's copy of the application forwarded to the field direct from Washington.

The application, considered as bordering on prospecting, is referred for field examination and covering reports without comment. It should be discussed with the Grand Junction office of the AEC prior to the field examination.

W. M. TRAVER,

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

WMT:pw

cc: Subject
Chron
Harshman
Sec.Op.Comm. (2)

700

Surname copy

Murphy
Ellis
Johnson
~~Hoeburn~~
Kilsgaard
Selfridge
H. Johnson

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

MAY 12 1955

Mr. George Smart, President
Delores Uranium Corporation
302 Zion's Savings Bank Building
Salt Lake City, Utah

Re: Docket No. DMEA-3738 (Uranium)
Monument Valley, et al. groups
San Miguel County, Colorado

Dear Mr. Smart:

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

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

The Regional Office will contact you at the earliest opportunity in regard to your project.

Sincerely yours,

G. O. Mittendorf

Administrator

FMMurphy/gla
5-10-55
cc to: Admr.'s Reading File
Docket
Code 700
Mr. Murphy
DMEA Field Team, Region III (2)

R.C.J.

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

Surname copy
Murphy
Ellis
Selfridge
Fejtkuson

Mr. W. M. Traver
Executive Officer
DMEA Field Team, Region III
224 New Customhouse Building
Denver 2, Colorado

MAY 12 1955

Re: Docket No. DMEA-3738 (Uranium)
Dolores Uranium Corporation
Monument Valley, et al. groups
San Miguel County, Colorado

Dear Mr. Traver:

The captioned application is referred to Region III Field Team for investigation, a field examination, and recommendation. A copy of the application was forwarded to your office on March 28, 1955.

Enclosed are copies of memoranda from Mr. J. E. Crawford, dated April 29, and Mr. R. D. Trace, dated May 5, members of the Uranium Commodity Committee. Also, enclosed are two copies each of a letter, dated April 16, and maps forwarded to us in response to our letter dated April 4, 1955, requesting further information. In addition to the above, we are enclosing two copies of a letter, dated April 18, from Davis and Davis, Consulting Geologists.

This additional information as submitted does not add greatly to that previously presented. However, as Mr. Trace notes, you may have or can obtain more specific geologic information on the immediate district than is available here.

Sincerely yours,

George C. Selfridge
Chairman, Operating Committee (GHB)

Enclosures

APPROVED:
/s/ C. H. Johnson (GHB)
Member, Bureau of Mines

Thor H. Kiilsgaard
Member, Geological Survey (GHB)

FMMurphy/gla
5-10-55
cc to: Admr.'s Reading File
Operating Committee
Docket
Messrs. J. E. Crawford, Rm. 3641
T. H. Kiilsgaard, Rm. 5224
J.O. Hosted, Rm. 3210, GSA
Code 700
Mr. Murphy

R.D.T.

Leland J. Davis
office 22-2516
home 8-1863

DAVIS and DAVIS

Consulting Geologists

351 SOUTH STATE
SALT LAKE CITY, UTAH

H. Clyde Davis
office 22-2516
home 87-1260

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 22 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAY 2 - 1955

April 18, 1955

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division
U. S. Department of Interior
Washington 25, D.C.

Dear Sir:

In answer to your letter in reference to Docket No. DMRA-3738, San Miguel County, Colorado, and at the request of the Dolores Mining Company, a short summary of the geologic features favorable for uranium mineralization on the Dolores Mining Company properties is as follows:

The structural geology is very favorable with properties located near the crest of the Dolores anticline. A number of faults occur on the property which could act as avenues for uranium mineralization to come up through from below.

Newmont Exploration, Ltd., and Hunt Oil Company have drilled to the top of the Moenkopi through the Chinle and Shinarump formations in the bottom of Summit Canyon where they definitely established the existence of the Mossback member of the Chinle or Shinarump to occur. The Mossback member is mineralized to the northeast and to the east of the Dolores Mining Company properties on the outcrop.

A radiometric count above background has been noted to occur along the faults on the property in Summit Canyon. However, due to the Navajo, Wingate and Chinle formations outcropping on the surface of the claims, a drilling program is necessary to explore these claims for uranium mineralization.

The Slick Rock area is very greatly mineralized as noted from producing mines in the Morrison formation of Jurassic age. It is my belief that the

mineralization could come from below through the faults and fractures into desirable formations or host rock favorable to uranium deposition. I don't know of any definite paleochannel occuring beneath the Dolores Mining Company properties, but with several mineralized drill holes noted through the Newmont drilling program and with highest radiometric count found near the faults, I feel that this property merits a drilling program.

Very truly yours,

Leland J. Davis

Leland J. Davis
Consulting Geologist

LJD/b

Enc.

5/5/55 gla

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
MAY 5 - 1955

May 5, 1955

Re: DMEA-3738
Dolores Uran. Corp.
Slick Rock district
San Miguel Co., Colo.
$492,492 - Uranium

Memorandum

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

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

Subject: Review of supplemental data

The applicant proposes a large drilling program to explore the Mossback(?) member. As far as I know, all the production from the Slick Rock district is from the Salt Wash (and Brushy Basin), although I understand that uranium minerals have been found in the Mossback(?) in the Dolores River canyon, about 4 or 5 miles east of the applicant's drill holes. The present status of this occurrence is unknown to me.

Twenty one holes have been drilled on the applicant's claims. According to radioactivity logs, several of these holes contained mineralization in the Mossback(?). Although I'm not certain just how to interpret these logs, at least two holes (SC 5 and 16) appear to have appreciable mineralization.

Because of these known occurrences, and in order to get the latest information available, I recommend that the application be referred to the Field Team.

Based on my present knowledge, the project is rather wild. However, the Field Team conceivably might think, as an example, that the crest of the Dolores anticline should be tested by a few holes. Such holes would start in Chinle and should be no more than 400 feet deep. Or perhaps the Field Team will think that the Dolores anticline flank test, as already done, was the best gamble -- and as it didn't prove minable ore -- any further drilling would be too great a gamble for a DMEA program.

R.D. Trace
R. D. Trace

IN REPLY REFER TO:

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

Defense Minerals Administration
RECEIVED
MAY 5 1955

May 5, 1955

Re: DMEA-3738
Dolores Uran. Corp.
Slick Rock district
San Miguel Co., Colo.
$492,492 - Uranium

Memorandum

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

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

Subject: Review of supplemental data

The applicant proposes a large drilling program to explore the Moenkopi(?) member. As far as I know, all the production from the Slick Rock district is from the Salt Wash (and Brushy Basin), although I understand that uranium minerals have been found in the Moenkopi(?) in the Dolores River canyon, about 4 or 5 miles east of the applicant's drill holes. The present status of this occurrence is unknown to me.

Twenty one holes have been drilled on the applicant's claims. According to radioactivity logs, several of these holes contained mineralization in the Moenkopi(?). Although I'm not certain just how to interpret these logs, at least two holes (DC 5 and 16) appear to have appreciable mineralization.

Because of these known occurrences, and in order to get the latest information available, I recommend that the application be referred to the Field Team.

Based on my present knowledge, the project is rather wild. However, the Field Team conceivably might think, as an example, that the crest of the Dolores anticline should be tested by a few holes. Such holes would start in Chinle and should be no more than 400 feet deep. Or perhaps the Field Team will think that the Dolores anticline flank test, as already done, was the best gamble -- and as it didn't prove winnable ore -- any further drilling would be too great a gamble for a DMEA program.

RDTrace:hlm
G-5/5/55

R. D. Trace

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

5/2/55 gla

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

Bureau of Mines Washington
RECEIVED
MAY 2 - 1955

April 29, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3738, Dolores Mining Company, San Miguel County, Colorado

see supplemental ans. Terrell

I have reviewed the attached application, DMEA Docket 3738, Dolores Mining Company, San Miguel County, Colorado; and I have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We recommend that the application be referred to the Field Team for investigation and report, and that the Field Team be requested to discuss the application with Ernest R. Gordon, Grand Junction Operations Office, Atomic Energy Commission, Grand Junction, Colorado.

John E. Crawford

John E. Crawford

Attachment

4/22/55 gla

Leland J. Davis
office 22-2516
home 8-1863

DAVIS and DAVIS
Consulting Geologists

351 SOUTH STATE
SALT LAKE CITY, UTAH

H. Clyde Davis
office 22-2516
home 87-1260

April 18, 1955

Defense Minerals Administration
RECEIVED
APR 22 1955

Ernest Wm. Ellis, Chief
Rare and Miscellaneous Metals Division
U. S. Department of Interior
Washington 25, D.C.

Dear Sir:

In answer to your letter in reference to Docket No. DMEA-3738, San Miguel County, Colorado, and at the request of the Dolores Mining Company, a short summary of the geologic features favorable for uranium mineralization on the Dolores Mining Company properties is as follows:

The structural geology is very favorable with properties located near the crest of the Dolores anticline. A number of faults occur on the property which could act as avenues for uranium mineralization to come up through from below.

Newmont Exploration, Ltd., and Hunt Oil Company have drilled to the top of the Moenkopi through the Chinle and Shinarump formations in the bottom of Summit Canyon where they definitely established the existence of the Mossback member of the Chinle or Shinarump to occur. The Mossback member is mineralized to the northeast and to the east of the Dolores Mining Company properties on the outcrop.

A radiometric count above background has been noted to occur along the faults on the property in Summit Canyon. However, due to the Navajo, Wingate and Chinle formations outcropping on the surface of the claims, a drilling program is necessary to explore these claims for uranium mineralization.

The Slick Rock area is very greatly mineralized as noted from producing mines in the Morrison formation of Jurassic age. It is my belief that the

mineralization could come from below through the faults and fractures into desirable formations or host rock favorable to uranium deposition. I don't know of any definite paleochannel occuring beneath the Dolores Mining Company properties, but with several mineralized drill holes noted through the Newmont drilling program and with highest radiometric count found near the faults, I feel that this property merits a drilling program.

Very truly yours,

Leland J. Davis

Leland J. Davis
Consulting Geologist

LJD/b

Enc.

4/18/55-gla

McCONKIE AND McCONKIE
ATTORNEYS AT LAW
SUITE 302 ZION'S SAVINGS BANK BUILDING
SALT LAKE CITY 1, UTAH
TELEPHONE 9-0022

OSCAR W. McCONKIE
F. BRITON McCONKIE
OSCAR W. McCONKIE, JR.

Defense Minerals Administration
RECEIVED
APR 18 1955

16 April 55

United States Department of Interior
Defense Minerals Exploration Administration
Rare and Miscellaneous
Metals Division
Washington 25, D.C.

Attention: Mr. Ernest Wm. Ellis Re: Docket No. DMEA 3738
Monument Valley et al:
San Miguel County, Colorado

Dear Sir:

We have sent you in seperate package two (2) maps of the claims owned by Dolores Uranium Corporation. They were sent yesterday and should arrive by the time you receive this letter.

We hope that this information will make it possible for a speedy approval of our requested loan.

We are not prospecting in this area. We leased a portion of the area to Newmont Exploration Limited and they have just completed a comprehensive drilling program on it. We have sent you the drill logs and maps relative to this Newmont drilling program. They drilled fourteen (14) holes in which they report they encountered mineralization. Hole number 5 has low grade ore in it according to their report which you have.

Newmont encouraged us to seek a loan for the purpose of further exploring our property. Newmont is not continuing on the property we leased to them, but they felt, at least some of their geologist's felt that we should continue our program of drilling if the government would approve the loan.

The maps that we mailed yesterday will show the area in which the company believe a channel of uranium ore lies. The maps are marked with red dots to indicate proposed drilling sites. The Blue dots indicate where Newmont drilled and found mineralization. The claims are numbered on one of the maps but not the other.

The USGS maps show the Dolores Anticline and the faults. We believe that the known mineralization area as well as the low grade ore area makes it imperative that we continue our exploration work.

We would appreciate your cooperation and assure you that we will do all that is in our power to cooperate with you.

Respectfully yours,
F. Briton McConkie
F. Briton McConkie

FBM:bm

McConkie and McConkie
Attorneys at Law
Suite 302 Zion's Savings Bank Building
Salt Lake City 1, Utah

C O P Y

16 April 55

United States Department of Interior
Defense Minerals Exploration Administration
Rare and Miscellaneous
Metals Division
Washington 25, D. C.

Attention: Mr. Ernest Wm. Ellis

Re: Docket No. DMEA 3738
Monument Valley et al:
San Miguel County, Colorado

Dear Sir:

We have sent you in separate package two (2) maps of the claims owned by Dolores Uranium Corporation. They were sent yesterday and should arrive by the time you receive this letter.

We hope that this information will make it possible for a speedy approval of our requested loan.

We are not prospecting in this area. We leased a portion of the area to Newmont Exploration Limited and they have just completed a comprehensive drilling program on it. We have sent you the drill logs and maps relative to this Newmont drilling program. They drilled fourteen (14) holes in which they report they encountered mineralization. Hole number 5 has low grade ore in it according to their report which you have.

Newmont encouraged us to seek a loan for the purpose of further exploring our property. Newmont is not continuing on the property we leased to them, but they felt, at least some of their geologist's felt that we should continued our program of drilling if the government would approve the loan.

The maps that we mailed yesterday will show the area in which the company believe a channel of uranium ore lies. The maps are marked with red dots to indicate proposed drilling sites. The Blue dots indicate where Newmont drilled and found mineralization. The claims are numbered on one of the maps but not the other.

The USGS maps show the Dolores Anticline and the faults. We believe that the known mineralization area as well as the low grade ore area makes it imperative that we continue our exploration work.

We would appreciate your cooperation and assure you that we will do all that is in our power to cooperate with you.

Respectfully yours,

/s/ F. Briton McConkie

FBM:bm

4/7/55 gla

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 6 1955

April 6, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3738, Dolores Uranium Corporation, 302 Zion's Savings Bank Building, Salt Lake City, Utah

I have reviewed the attached application of Dolores Uranium Corporation, DMEA Docket 3738, and have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the applicant be requested to submit supplementary information relating to the mineralization discovered by previous drilling on the property. Logs of the drill holes indicating the extent and thickness of the mineralized horizon, as well as analytical data would be helpful. A more descriptive, less confusing, map showing location of the claims, outcrop pattern, holes drilled, and other pertinent data is also recommended.

John E. Crawford
John E. Crawford

Attachment

Copy to: Division of Minerals
Branch of Rare and Precious Metals
J. O. Hosted (2)
J. E. Crawford (2)

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

April 6, 1955

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 6 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3738, Dolores Uranium Corporation, 302 Zion's Savings Bank Building, Salt Lake City, Utah

I have reviewed the attached application of Dolores Uranium Corporation, DMEA Docket 3738, and have discussed it with Joseph O. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the applicant be requested to submit supplementary information relating to the mineralization discovered by previous drilling on the property. Logs of the drill holes indicating the extent and thickness of the mineralized horizon, as well as analytical data would be helpful. A more descriptive, less confusing, map showing location of the claims, outcrop pattern, holes drilled, and other pertinent data is also recommended.

John E. Crawford

Attachment

Copy to: Division of Minerals
Branch of Rare and Precious Metals
J. O. Hosted (2)
J. E. Crawford (2)

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
APR 6 1955

April 6, 1955

Memorandum

To: Ernest William Ellis, DMEA Member
Uranium Commodity Committee

From: Bureau of Mines Member
Uranium Commodity Committee

Subject: DMEA Docket 3738, Dolores Uranium Corporation, 302 Zion's Savings Bank Building, Salt Lake City, Utah

I have reviewed the attached application of Dolores Uranium Corporation, DMEA Docket 3738, and have discussed it with Joseph C. Hosted, Washington representative of the Atomic Energy Commission.

We suggest that the applicant be requested to submit supplementary information relating to the mineralization discovered by previous drilling on the property. Logs of the drill holes indicating the extent and thickness of the mineralized horizon, as well as analytical data would be helpful. A more descriptive, less confusing, map showing location of the claims, outcrop pattern, holes drilled, and other pertinent data is also recommended.

John E. Crawford

Attachment

Copy to: Division of Minerals
Branch of Rare and Precious Metals
J. C. Hosted (2)
J. E. Crawford (2)

Surname 700

Murphy
Ellis
Mittendorf

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

APR - 4 1955

Dolores Uranium Corporation
302 Zion's Savings Bank Building
Salt Lake City, Utah

Re: Docket No. DMEA-3738 (Uranium)
Monument Valley, et al., groups
San Miguel County, Colorado

Gentlemen:

The Rare and Miscellaneous Metals Division has completed a review of the above-docketed application.

We note that in the area of your claim groups, all the Brushy Basin and part of the Salt Wash members of the Morrison formation have been eroded. Therefore the proposed drilling is planned to penetrate the deeper-lying Mossback member of the Chinle formation.

We are aware that significant deposits of uranium and vanadium ores have been found in the Mossback stratum in places where it is exposed in Utah, some distance northwest of your property. Also, small deposits have been found in Colorado to the southwest of your property where it is again exposed. However, to penetrate this stratum in the area of your claims will require drill holes ranging from 500 to 1000 feet in depth.

To recommend a project requiring drilling on your property we will require (in part) data indicating a definite target area such as an indicated or inferred sedimentary channel or trend of mineralization. A study of your proposed drilling program does not reveal any particular target except the general Mossback stratum. Therefore, such a program might be classified as prospecting rather than exploration.

On the Newmont Exploration Ltd. map, submitted with your application, we note a number of circles, each with a letter and number. Do these circles represent the location of drill holes? If so, do you have any data in regard to them?

It is possible that you have additional data which would justify the proposed drilling program or possibly a revised program. If you have such information available will you please submit it to this office at your earliest opportunity. When this data is received we will promptly continue to process your application.

Sincerely yours,

EWEllis:am
4-1-55
cc to: Admr. Reading File
Docket
Messrs. J.E.Crawford,3641
T.H.Kiilsgaard,5224
J.O.Hosted,3210,GSA

Ernest Wm. Ellis, Chief
Rare and Miscellaneous
Metals Division

Code 700
DMEA FT,Region III(2)

4/4/55 gla

IN REPLY REFER TO:

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

DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS ADMINISTRATION
RECEIVED
APR 4 1955

March 31, 1955

Re: DMEA-3738
Dolores Uranium Corp.
Slick Rock district
San Miguel Co., Colo.
$492,492 - Uranium

Memorandum

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

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

Subject: Review of application

The applicant shows a large number of drill holes(?) on his map, for which he gives no information.

Although the proposed project is probably prospecting, rather than exploration, I suggest that you ask the operator for data on the above mentioned drill holes.

RDTrace

R. D. Trace

IN REPLY REFER TO:

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

March 31, 1955

Re: DMEA-3738
Dolores Uranium Corp.
Slick Rock district
San Miguel Co., Colo.
$492,[illegible] - Uranium

Memorandum

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

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

Subject: Review of application

The applicant shows a large number of drill holes(?) on his map, for which he gives no information.

Although the proposed project is probably prospecting, rather than exploration, I suggest that you ask the operator for data on the above mentioned drill holes.

R. D. Trace

RDTrace:hlm
G-3/31/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

IN REPLY REFER TO:

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

March 31, 1955

Re: DMEA-3738
Delorme Uranium Corp.
Slick Rock district
San Miguel Co., Colo.
$492,492 - Uranium

Memorandum

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

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

Subject: Review of application

The applicant shows a large number of drill holes(?) on his map, for which he gives no information.

Although the proposed project is probably prospecting, rather than exploration, I suggest that you ask the operator for data on the above mentioned drill holes.

R. D. Trace

RDTrace:hlm
G-3/31/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

IN REPLY REFER TO:

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

March 31, 1955

Re: DMEA-3738
Dolores Uranium Corp.
Slick Rock district
San Miguel Co., Colo.
4492,492 - Uranium

Memorandum

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

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

Subject: Review of application

The applicant shows a large number of drill holes(?) on his map, for which he gives no information.

Although the proposed project is probably prospecting, rather than exploration, I suggest that you ask the operator for data on the above mentioned drill holes.

R. D. Trace

RDTrace:hlm
G-3/31/55

Copy to: Director's reading, 4212
Branch reading, 4212
DMEA (3)
Docket file
J. E. Crawford, 3641 Interior

March 28, 1955
Subject: DMEA 3738
Re: Exploration Assistance
Monument Valley, et al.,
Groups

Dolores Uranium Corporation
302 Zion's Savings Bank Building
Salt Lake City, Utah

Gentlemen:

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

Your application has been assigned Docket Number DMEA 3738 and referred to the Rare and Miscellaneous Metals Division.

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

Sincerely yours,

Robert E. Adams, Chief
Operations Control and
Statistics Division

MF-103
(Revised April 1952)

UNITED STATES DEPARTMENT OF THE INTERIOR
DEFENSE MINERALS EXPLORATION ADMINISTRATION

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

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 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. 3738
Metal or Mineral Uranium, Vanadium
Date Received 3-28-55
Estimated Cost $492,492
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: Dolores Uranium Corporation, a Utah Corporation, 302 Zion's Savings Bank Building, Salt Lake City, Utah.
George Smart, President, Tooele, Utah, Melba Powell, Sec. 922 ~~Sas~~23rd E.
Eliot Snow, Vice President, Salt Lake City, Utah (1403 Butler Ave)

(*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 sheets

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

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

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

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

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

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. Return Copy if not used

(*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.

16—66551-1

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

(*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 now days and be completed within 6 months from the date of an exploration project contract.

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

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)?

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

☒ 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 March 24, 1955

Dolores Uranium Corporation
(Applicant)

By B. L. Powell
George Smart

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

Dolores Uranium Corporation 302 Zion's Savings Bank Bldg. Salt Lake City, Utah.

DEPARTMENT OF THE INTERIOR
Defense Minerals Administration
RECEIVED
MAR 28 1955

Answer to #3 (a).

Legal Description

Monument Valley claims 2,3,4,5,6,7,17, and 16, T 44 N R 19 W. Sec. 27
Claims 7, 8, 9, 19, 18 and 20 lay T 44 N R 19 W Sec. 26
Claims 10, 11, 12, 13, 14, 15, lay across Sec. line 34, 35, T 44 N R 19 W.

Red Canyon claims 1, 2, 3, 8, 21, 22, 23, 20, 14, 17, 18, lay in T44 N R 19 W Sec 34, 35. Claims 4, 13, 12, and 10 lay in Summit Creek in Sec. 4, 3 and 2 and claims 9, 7, 6 and 5.

Deer Valley claims 1, 2, 3, 4, 5, 6, lay in T 44 N R 19 W Sec. 35 (middle) Claims 7, 8, 9, 10, 11, 12, lay in T43 N R 19 W Sec 2 (North middle half)

Cedar Flat claims 6, 7, 15, 16, 17, 18, 19 lay in S'E' half of Sec.1 T 43 N R 19 W. Claims 1, 2, 3, 4, 10, 11, 12, 13, lay in the North center of half Sec. 12 T44 N R 19 W. Claims 1, 8, 5, 25, 24, 21, 22, Sec. 7 N'W' half T 43 N R 18 W. Claims 20, 14, 23, Sec. 6 T 43 N R 18 W.

Slick Rock claims 1, 2, 3, 7, 6, in Sec. 25 T 44 N R 19 W. Claims 4, 8, 9, 10, 11, 13, 14, 15, 16, in Sec. 26 T 44 N R 19 W. Claims 17, 18, North half middle Sec. 35 T 44 N R 19 W Claims 19, 20 in Sec 34 T 44 N R 19 W.

Bush Creek claims 15, 17, 18, 19, 20, in Sec 6 T 43 N R 18 W. Claims 6, 7, 8, 9, 10, 11, 12, 13, 4, 5, 3, in Sec 12 T 43 N R 19 W. Claims 1, 25, in Sec II T 43 N R 18 W. Claims 14 Sec 7 T 43 N R 18 W line of Sec 7.

Faulte Flat claims 1, 2, 7, 10, 11, 23, 3, 24, 3, 15, 12, 13, 19, 8, Sec 17, T 43 N R 18 W. 4, 5, 16, 17, 18, in Sec 20 T 43 N R 18 W Claim 14, Sec 18 T 43 N R 18 W. Claims 21, 22, Sec 7, T 43 N R 18 W Claims 20, 6, in Sec. 8 T 43 N R 18 W.

Dolores Uranium Corporation, 302 Zion's Savings Bank Bldg. Salt Lake City, Utah.

Answer to #3 (f)

Book and Page Number for each recorded location. San Miguel County Telluride, Colorado.
Mounment Valley claims: 1-20
Filed under circular 7 Filed March 15, 1954
Book 230 Page 310
Filed Feb. 17, 1954
Book 228 Page 499
Amended location
Book 240 Page 105-124

Red Canyon claims 1-23
Filed under circular 7
Book 230 Page 330-352
Filed Feb. 17, 1954
Book 228, Page 500-519
Deer Valley claims: 1-12
Filed under circular 7 March 15, 1954
Book 230 Page 274
Filed Feb. 17, 1954
Book 228 Page 525-531
Amended location notice
Book 240 Page 148-159

Cedar Flat claims 1-24
March 15, 1954
Book 230 Page 286-328
Book 228 Page 479
Book 240 Page 160

Slick Rock Claims 1-18
Book 240 Page 228-245
Book 229 Page 463-464
Book 235 Page 351-355

Bush Creek 1-20
Book 240 Page 227-308
Book 235 Page 380-399

Faulte Flat 1-24
Book 230 Page 353-376
Book 228 Page 532-546
Book 240 Page 184-207

Dolores Uranium Corporation, 302 Zion's Savings Bank Bldg. Salt Lake City, Utah

Answer #4 (a)

Dolores Uranium Corporation has built roads on all of its property through Summit Canyon. On the east and west sides of the canyon.

Newmont Exploration Limited has drilled for us approximately 30,000 feet of drilling on claims known as Red Canyon claims 20, 3, 2, 1, 11 16, 8 and 9. The holes are from 275 to 700 feet in depth.

Bush Creek has a road on both sides of the canyon. We plan on a road being built up the bottom of Bush Creek to save from 200 to 400 feet of deep drilling. It will take a small amoun t of work to buld roads to the drilling sites, from the main road we have already constructed. We have built roads into Blue Canyon and Morrison Canyon in Section 17, 18, 19, and 20 T 43 N R 18 W. $5200 will build the roads into this. We have spent $23000.00 in Bush and Summit Creek in building exploration work there.

(b) Accompanying maps will show some ore, but the amount is undetermined.

(c) We think that across the Dolores Anticline and across the faults we will uncover bodies of ore.

(d) We are 25 miles North of Dove Creek, Colo. on Colorado Highway 80. We are 50 miles Northeast of the Monticello Mill; and 45 miles southeast of Naturita Mill. We have a camp located on the property now, trailer and large gas tank and supplies.

(e) We can get plenty of man power in this area. Materials and supplies are plentiful. We have in the corporation possession a TD 18 Bull Dozer and compressor. We have two drills available to rent and water trucks to do this drilling; and option to purchase out right these drills and trucks. We have water close to the property.

Answer to #5.(a)

Uranium and Vanadium.

(b) The proposed work and maps etc. are attached.

(c) The work will start immediately and will be completed 6 months after your approval of the loan.

(d) The manager of said company has been doing construction work for 10 years. He owned about $450,000.00 of construction equipment in building roads, excavation etc. He has had 20 years mining experience 5 years of above time was hard rock mining and 15 years as a mine operator, dept. of supervisor and all types of supervising work.

Attached is the background of the geologist who will assist.

Answer to #6

Dolores Uranium Corporation 302 Zion's Savings Bank Bldg. Salt Lake City, Utah.

Answer #6

We proppose to do this drilling program with money that we will get from this loan. We will furnish the required amount for our share.

(b) The following are a list of rates that we will pay: Truck drivers 1.25 per hours. Drill helpers $1.50 per hour. Drillers $2.50 per hour, Bull dozer operators $2.00 per hour. Labor $1.00 per hour Supervisors $600.00 per month. Geologist $600.00 per month.

(c) Operating materials and supplies willbe furnished by contractor and labor also will be furnished.

(d) operating equipment furnished by contractor.

(e) Rehabilitation and repairs will come out of contracted price of drilling.

(f) There will be no building improvements or installations on this contract.

(g) These men will work according to National Labor law contract and wage deductions and taxes, insurance and liability and payroll deductions taken out.

Answer #7
(a) We are prepared to furnish our share of the cost of proposed project in accordance with the regulations on government applications section 7 DMEA No.I.

(b) We propose to furnish a bull dozer to build roads; two drills; two water trucks, with all supplies necessary; to carry out drilling program; at our cost of supplies under a contract footage basis, to do this drilling.

Leland J. Davis
office 22-2516
home 8-1863

DAVIS and DAVIS

Consulting Geologists

351 SOUTH STATE
SALT LAKE CITY, UTAH

H. Clyde Davis
office 22-2516
home 87-1260

Colorado Mineral Reconnaissance
RECEIVED
MAR 28 1955

March 8, 1955

Dolores Uranium Corporatio
302 Zion's Savings Bank
Salt Lake City, Utah.

To Whom it May Concern:

The following is the background of Leland J. Davis, Consulting Geologist, who will be in charge of all geological work and drilling for the Dolores Mining Company:

Mr. Leland J. Davis is a Consulting Geologist of Salt Lake City, Utah. He is a graduate of Brigham Young University with a B. S. degree in chemistry and an M. S. degree in geology. He has also had one year of graduate work on his Doctor's degree in geology at the University of Utah. Mr. Davis recently resigned from a geological position with one of the major oil companies. Prior to his work with this oil company, Mr. Davis was, himself, active in mining uranium on the Colorado Plateau.

Very truly yours,

Leland J. Davis

Leland J. Davis
Consulting Geologist

LJD/b

DOLORES URANIUM COMPANY
922 SOUTH TWENTY-THIRD EAST
SALT LAKE CITY, UTAH

B. G. POWELL
PRESIDENT & GEN. MGR.

No 6

We do not know just how far & how much money the Goverment will lend to ward all expences on all the work will list all it will take & time to do the work depends on working kindissings It may take four mounth & May take six Depending on drilling condishings

List

Geoligest 600,00 per Mounth if six mounths	$3600.00
Supervising 600.00 " " " "	$3600.00
Core Boxes 50 @ I0.00 Each	$ 500.00
Bulldozer & Building sume roads @ 850 Hours @ $I2.50 Per Hour	$I0.625.00
Compresser Renteal per Month I05 Gardner Denver $ 265.00 Per Mounth for four months	$I060.00
Radioctivity _ Electric Loging holes $ 2400.00 Per Month 6 Months	$I4.400.00
Truck To trancport drill core to lab Gas & Oil $400.00 Per Month	$2400.00
Powder & Supplys $546.00	$ 546.00
If all Plug Drilling will cost for 56.I00 feet $20I,655,00	$36,73I.00
If Core 50 Feet & Plug all rest 56.I00 Feet $2I7.375.00	

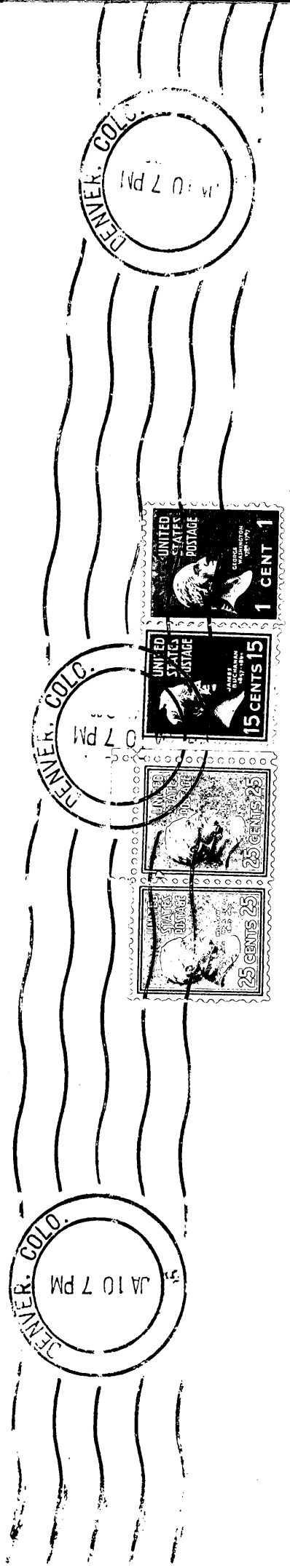
NO I	Plug Drilling	$20I,655,00
	Missilanis	$ 36,73I.00
		$238,386,00
NO 2	Plug & Core Drill	$2I7,375,00
		$ 36,73I.00
		$254,I06,00

We dont know how much the goverment will alow on expences as we have listed here but we may have to put up more of the expences listed here

Very Truly

B G Powell

B.G. Powell GEN Manager



Maps

SECRETARY TO THE OPERATING COMMITTEE
DEFENSE MINERALS EXPLORATION ADMINISTRATION
DEPARTMENT OF THE INTERIOR
INTERIOR BUILDING
WASHINGTON 25, D. C.

Maps

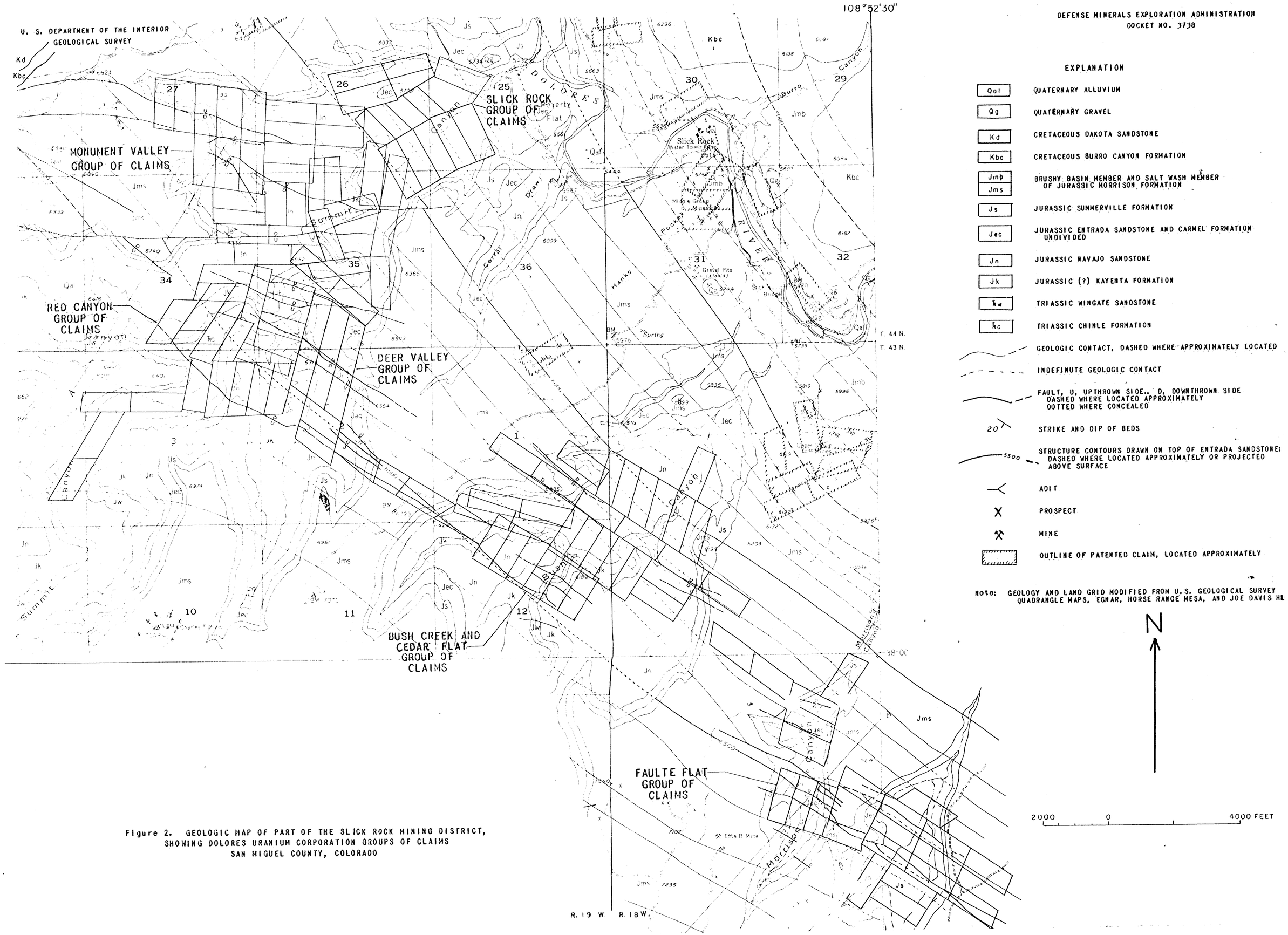


Figure 2. GEOLOGIC MAP OF PART OF THE SLICK ROCK MINING DISTRICT, SHOWING DOLORES URANIUM CORPORATION GROUPS OF CLAIMS SAN MIGUEL COUNTY, COLORADO

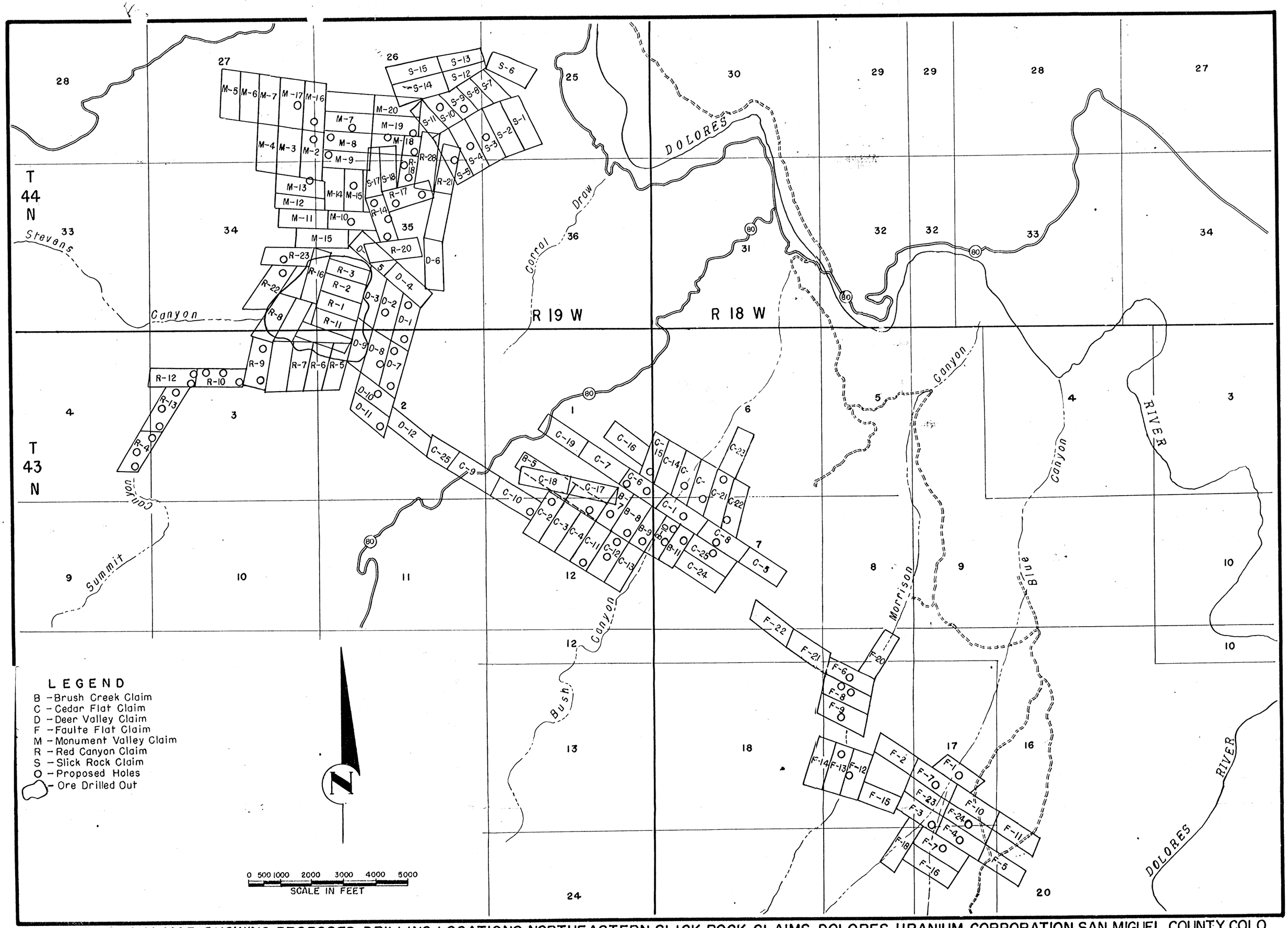


FIGURE 2 - CLAIM MAP, SHOWING PROPOSED DRILLING LOCATIONS, NORTHEASTERN SLICK ROCK CLAIMS, DOLORES URANIUM CORPORATION, SAN MIGUEL COUNTY, COLO.
DMEA 3738