3/21/55 rgl

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

224 New Customhouse
Denver 2, Colorado

March 10, 1955

Memorandum

To: Secretary to the Operating Committee

From: Field Geo[illegible], [illegible]

Subject: Report of Examination, Docket [illegible] (Uranium), Uranium Ventures, Inc., Topaz claims, San Miguel County, Colorado

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

We concur with the recommendation of the field examiners that this application in the amount of $[illegible]2,[illegible]55.92 be denied.

W. M. TRAVER,

W. M. Traver

E. N. Harshman

E. N. Harshman

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

DMEA
Date Rec'd
3 21 1955
OF MINES
Colorado

Region III

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado
February 17, 1955

TRANSMITTED

MAR 18 1955

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw, Project Supervisor

Subject: Examination report on the Topaz Claims (Uranium), Uranium Ventures, Inc., San Miguel County, Colorado, Docket DMEA 3576

Enclosed are the original and ten copies of a Summary, Conclusions and Recommendations by George C. Simmons, Geologist and Carl Belser, Mining Engineer. Also enclosed are the original and ten copies of an Engineering Report by Carl Belser.

The applicant requested exploration assistance to perform 23,670 feet of diamond drilling at a total estimated cost of $102,555.92. The examination disclosed that the Salt Wash sandstones are considerably broken and the lenses appear thin. It is not believed that a significant amount of uranium will be disclosed by the proposed exploration, and it is recommended that this application be denied.

John F. Shaw

John F. Shaw

JFS/aj

cc: w/10
3576
Chron.

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION III

DMEA 3576, Topaz Claims

Uranium Ventures, Inc.

San Miguel County, Colorado

Uranium

George C. Simmons, Geologist
Geological Survey

Carl Bolser, Mining Engineer
Bureau of Mines

February 11, 1955

DMMA 3576
TOPAZ CLAIMS
URANIUM VENTURES, INC.
SAN MIGUEL COUNTY, COLO.

Summary, Conclusions, and Recommendations

By George C. Simmons
Geologist
Geological Survey

Carl Belser
Mining Engineer
Bureau of Mines

DMEA 3576

TOPAZ CLAIMS
URANIUM VENTURES, INC.
SAN MIGUEL COUNTY, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By George C. Simmons and Carl Belser

Uranium Ventures, Inc., Roger Conrow, President, 304 Main Street, Grand Junction, Colorado, has applied for Defense Minerals Exploration Administration assistance estimated to cost $102,555.92 to explore the Topaz group of claims by 23,870 feet of diamond drilling.

A field investigation was made on January 19, 1955 by an examining team from the Geological Survey and the Bureau of Mines. Louis F. Caggiati, consulting geologist, accompanied the team and represented the applicant.

The Topaz claims are in Big Gypsum Valley in secs. 10 and 15, T. 44 N., R. 18 W., New Mexico principal meridian.

The exposed rocks are mainly of the upper part of the Salt Wash member and the lower part of the Brushy Basin member of the Morrison formation of the Upper Jurassic. At least three northwesterly trending faults traverse the claims. These faults are parallel to the valley and are caused by the breaking off of slump blocks. About half of the area on the claims is covered by alluvial landslide material. Exposed Salt Wash sandstone ledges are thin.

Eleven diamond drill holes were drilled on the Topaz No. 3 claim, and 20 on the adjacent Uncle Sam claim.

The applicants' proposal called for 32 Stage I diamond drill holes totalling 9,870 feet of drilling and a total of 14,000 feet of

Stage II drilling at an estimated cost of $102,[illegible].72, Government participation 75 percent or 476,916.94.

The examining team does not believe that the area contains significant uranium deposits and that any deposits discovered will be small and spotty. The examining team recommends that the application be denied.

DMEA 3576

TOPAZ CLAIMS
URANIUM VENTURES, INC.
SAN MIGUEL COUNTY, COLO.

Engineering Report

By Carl Belser
Mining Engineer
Bureau of Mines

DMEA 3576

TOPAZ CLAIMS
URANIUM VENTURES, INC.
SAN MIGUEL COUNTY, COLO.

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ILLUSTRATIONS

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2. Claim map, showing proposed exploration, Topaz claims, Uranium Ventures, Inc., San Miguel County, Colo.	2

DMEA 3576

TOPAZ CLAIMS
URANIUM VENTURES, INC.
SAN MIGUEL COUNTY, COLO.

ENGINEERING REPORT

By Carl Belser

INTRODUCTION

Uranium Ventures, Inc., 105 Park Drive, Grand Junction, Colo., on October 23, 1954, submitted an application for Defense Minerals Exploration Administration assistance on the Topaz claims in Gypsum Valley, San Miguel County, Colo. The application, DMEA 3576, requested aid in completing 23,870 feet of diamond drilling at a total estimated cost of $102,555.92--Government participation 75 percent, or $76,916.94. This proposed exploration was to test the Salt Wash member of the Morrison formation for uranium mineralization.

A joint field examination was made by a Geological Survey and Bureau of Mines examining team on January 19, 1955. The examining team, as a result of their investigations, recommended that Government assistance of the applicant's proposal of exploratory drilling be denied.

ACKNOWLEDGMENTS

Louis F. Guggini, consultant, accompanied the examining team and represented the applicant.

W. F. Williams assigned George C. Simmons, geologist, to make the examination as the Geological Survey member of the team. Simmons was accompanied by W. F. Williams and William Gandik, geologists, Geological Survey.

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

LOCATION, TOPOGRAPHY, AND CLIMATE

The Topaz claims consist of six unpatented claims containing about 116 acres free from conflicts. The claims are located in secs. 10 and 15, T. 44 N., R. 18 W., New Mexico principal meridian, Gypsum Valley, San Miguel County, Colo., (figs. 1 and 2). The claims cover an area of steep, east sloping hillside and altitudes range from 5,700 feet to 6,300 feet.

A good county road connects with State Highway 50 at Gypsum Gap, 9 miles south, from whence Naturita is 30 miles north, Uravan 46.3 miles north, Norwood 43.5 miles east, Ridgeway 84.5 miles east, and Grand Junction 172 miles northeast. Labor, supplies, and light equipment can be obtained in Naturita, Norwood, and Uravan. Heavy equipment can be purchased in Grand Junction. The nearest railroad is the Denver and Rio Grande Western at Ridgeway. Some pinon grows on the property. Large timbers and dimension lumber can be obtained in the local towns. The nearest mills and ore depots are in Naturita and Uravan. An R.E.A. power line has been surveyed to supply the mines in Gypsum Valley with electric power and construction is expected to start in 1955. There are no living accomodations in Gypsum Valley.

Annual rainfall is light and the country is classed as semi-arid. Winter snowfalls seldom exceed 6 inches and mining operations can be maintained the year around. Water for drilling

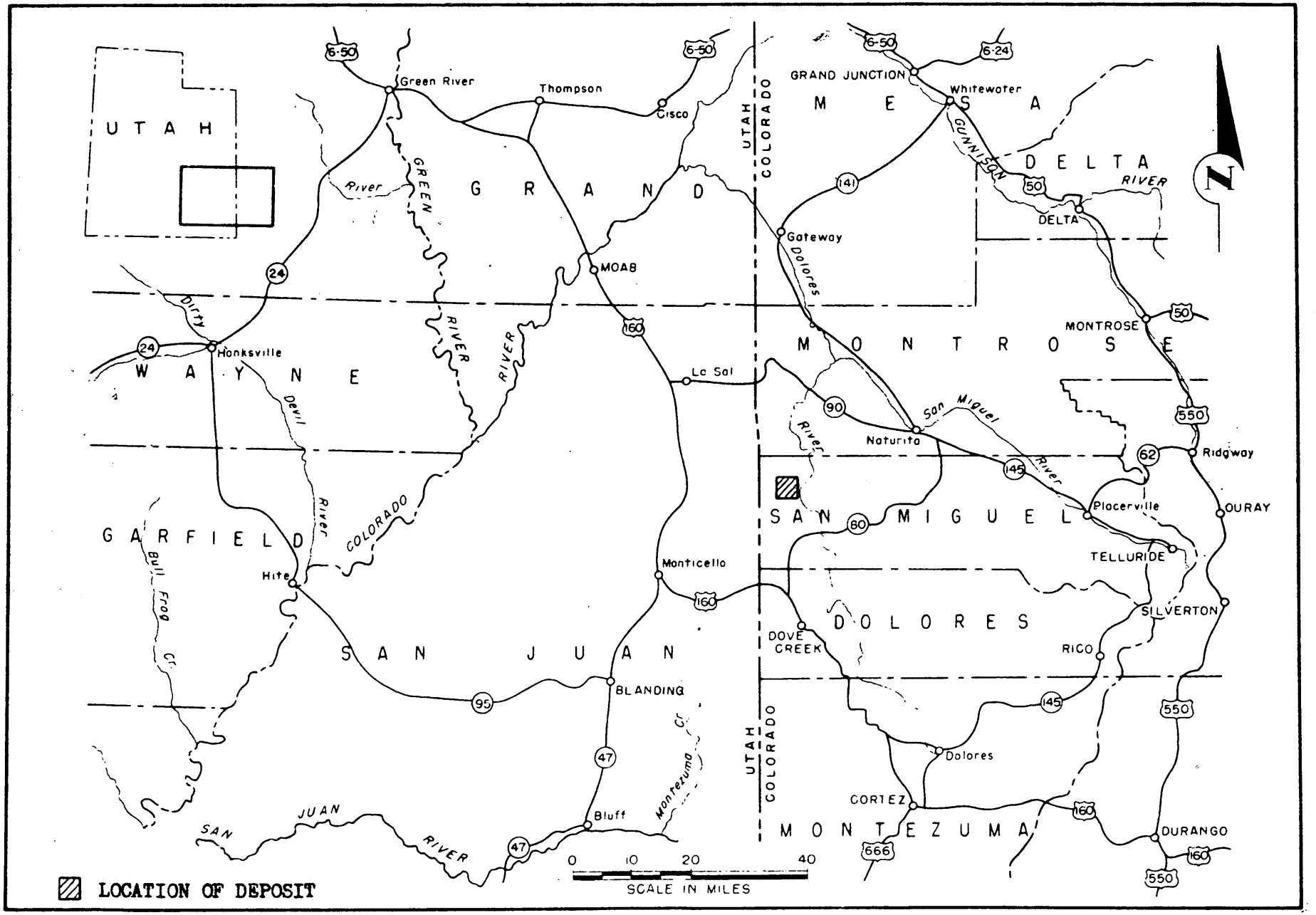


FIGURE 1 - LOCATION MAP, TOPAZ CLAIMS, URANIUM VENTURES, INC., SAN MIGUEL COUNTY, COLO. (DMEA 3576)

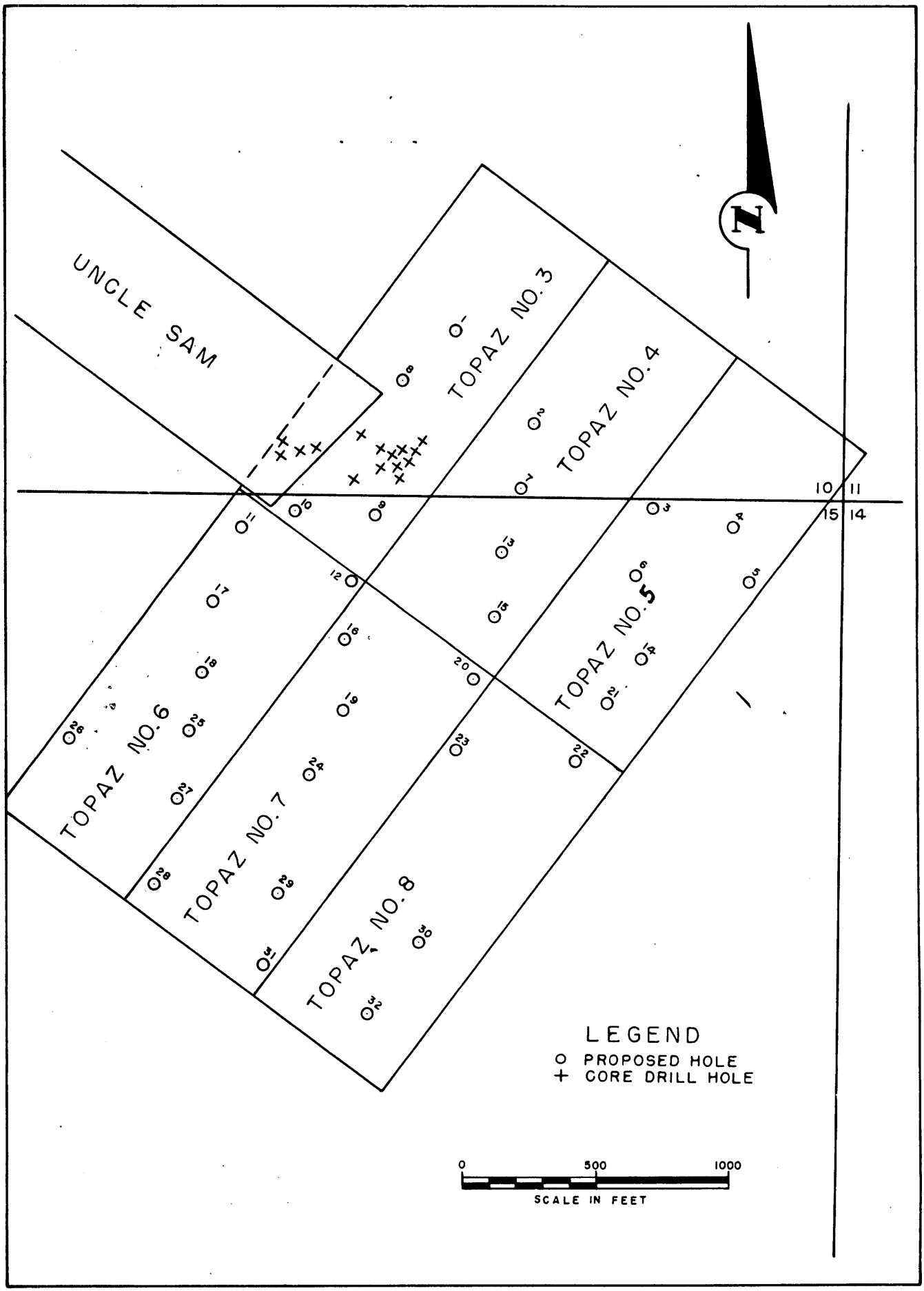


FIGURE 2 - CLAIMS MAP, SHOWING PROPOSED EXPLORATION, TOPAZ CLAIMS, URANIUM VENTURES, INC., SAN MIGUEL COUNTY, COLO. (DEMA 3576)

purposes can be obtained from the Dolores River, 4 miles distant, and water for domestic purposes can be obtained at Slick Rock or Naturita.

HISTORY AND PRODUCTION

Some intermittent mining of vanadium ore has been done in Gypsum Valley for a considerable period of time, but it was not until the introduction of the Government buying schedules in 1948 that uranium prospecting became of interest. The Topaz claims were located on January 20, 1953 by The Simpson Mining Company, et al. Eleven diamond drill holes were drilled on the Topaz No. 3 claim. There are no workings on the claims and no ore has been produced. A minor production of vanadium ore was made from the adjacent Uncle Sam vein.

OWNERSHIP AND EXTENT

The property consists of six unpatented claims containing approximately 116 acres. The claims are recorded in the office of the County Clerk and Recorder of San Miguel County, Colo., as follows:

	Original			Discovery:		Amended		
Claim	Book	Page	Date Filed	Date	Book	Page	Date Filed	Date Amended
Topaz No. 3	216	482	3/14/53	1/20/53	240	501	9/28/54	8/10/54
Topaz No. 4	216	483	3/14/53	1/20/53	240	502	9/28/54	8/10/54
Topaz No. 5	216	483	3/14/53	1/20/53	240	503	9/28/54	8/10/54
Topaz No. 6	216	483	3/14/53	1/20/53	240	504	9/28/54	8/10/54
Topaz No. 7	216	484	3/14/53	1/20/53	240	505	9/28/54	8/10/54
Topaz No. 8	216	484	3/14/53	1/20/53	240	506	9/28/54	8/10/54

Notice of lease applications under Circular 7 were recorded in book 229, pages 7-12, on February 17, 1954, and withdrawn on September 28, 1954 and the withdrawal was recorded in book 241, page 317.

A five year lease with renewal privileges was granted to Roger Conrow and Company by the Simpson Mining Company, et al., on April 5, 1954.

DESCRIPTION OF DEPOSITS

The exposed rocks on the Topaz claims are Morrison formation. There are no mine workings and no ore has been encountered or produced. Adjacent to the applicants' ground, but on the Uncle Sam claim, a small amount of spotty ore has been produced from thin sandstone lenses in the Salt Wash member of the Morrison formation.

MINEABLE ORE RESERVES

There are no known mineable ore reserves on the property.

PRESENT STATUS

Exploration and Development

No exploration and development work has been done on the property to date with the exception of the 11 core drill holes which were drilled on the Topaz No. 3 claim. No mineable ore was found in any of these drill holes (fig. 2).

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment on the property and the only facilities consist of a network of access roads.

PROPOSED EXPLORATION

The applicant proposed to explore the Salt Wash formation on the claims with a two-stage drilling program. Stage I consists of diamond drilling 9,870 feet (32 holes) and Stage II consists of diamond drilling 14,000 feet (about 28 holes). Stage II holes would

be spaced on short centers to delineate ore found in Stage I drilling.

ESTIMATED COST OF PROJECT

The application, as submitted, included all costs, but the Stage I and Stage II costs have not been broken down separately.

Estimated Cost of Core Hole Drilling

Independent contracts

Drilling

Stage I	3,730 feet at $2.00 (non-core)		$ 7,460.00
Stage I	2,830 feet at $2.25 (core)		6,367.50
Stage I	1,430 feet at $2.50 (core)		3,575.00
Stage I	870 feet at $2.75 (core)		2,392.50
Stage I	590 feet at $3.25 (core)		1,917.50
Stage I	150 feet at $3.75 (core)		562.50
Total Stage I 9,600 feet (not 9,870)			$22,875.00
Stage II	6,000 feet at $2.00 (non-core)		$12,000.00
Stage II	3,220 feet at $2.25 (core)		7,245.00
Stage II	1,960 feet at $2.50 (core)		4,900.00
Stage II	1,680 feet at $2.75 (core)		4,620.00
Stage II	900 feet at $3.75 (core)		3,185.00
Stage II	140 feet at $3.75 (core)		525.00
Total Stage II 14,000 feet			$32,515.00
Remaining 4,600 feet at $1.50/ft.			6,900.00
Buildozing			
Moving in and out 4 trips at $100.00/trip		$ 400.00	
Operation 40 days at $100.00/day		4,000.00	
Total independent contracts			$ 66,090.00

Labor and supervision

Labor		
Draftsman 144 hrs/mo. at $3.00/hr-12 months	$1,728.00	
Typist 24 hrs./mo. at $2.20/hr.-12 months	633.60	
Sampler-assistant $375.00/mo.-12 months	4,500.00	
Supervision		
Geo-Engineering fees, etc. $900.00/mo. - 12 months	10,800.00	
Total labor and supervision		17,661.60

Operating materials and supplies

Office supplies and any reproduction 12 months at $150.00/mo.	$ 1,800.00	
Survey stakes, etc.	25.00	
Total operating material and supplies		$ 1,825.00

Initial rehabilitation and repairs

None

New buildings, installations, etc.

None

Miscellaneous

Accounting (Uranium Ventures, Inc.) $100.00/mo. - 12 months	$ 1,200.00	
Payroll taxes - 10 percent of $571.00/mo.	686.16	
Total miscellaneous		1,886.16

Contingencies

Independent contracts, 15 percent	10,098.75	
Labor and supervision, 10 percent	1,766.16	
Operating material and supplies, 20 percent	365.00	
Miscellaneous, 50 percent	943.08	
Total contingencies		13,164.99

Total estimated cost of 23,870 feet of core hole drilling	$100,689.75
Estimated cost per foot	4.216

SUMMARY COST OF PROJECT

23,870 feet of drilling at $4.216/ft.	$100,635.98	
Assaying - 320 samples at $6.00	1,920.00	
Grand Total		$102,555.98
Government participation 75 percent, or		76,916.94

It will be noted that the applicant did not include assaying in the unit costs. Labor, supervision, and contingencies are high and would be cut about $10,000 by an engineer's estimate of costs.

CONCLUSIONS

The production from the area has been small. The Salt Wash sandstones are considerably broken and the lenses appear thin. The occurrence of significant ore deposits is not probable.

RECOMMENDATION:

It is recommended that the application be denied.

/dj

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

DMEA
Date Rec'd
FEB 17 1955
BUREAU OF MINES
Denver, Colorado

February 15, 1955

TRANSMITTED
MAR 18 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3576 (uranium), Uranium Ventures, Inc., Topaz claims, San Miguel County, Colorado

Enclosed are 10 copies of a geologic report by G. C. Simmons, U. S. Geological Survey, on the above subject property.

The claims are located on the southwest flank of the Gypsum Valley graben in a faulted area, over 50 percent of which is covered with Quaternary landslide debris.

The ore horizon on the claims is the Salt Wash member of the Morrison formation. The sandstone members are described by Simmons as thin and unfavorable for the deposition of significant deposits of uranium ore. Small "spotty" bodies of mineralized sandstone have been found in the area, but there has been no production of ore.

In a telephone conversation with W. F. Williams, I determined that data on the exploration by the U. S. Vanadium Corporation on the Uncle Sam claim, which is in part contiguous with the Topaz No. 3 claim of this application, were obtained too late to include in the report by Simmons. Williams states that these data will be included in a supplement to the report but that the supplement will not change the recommendation for denial of the application.

This morning I received a telephone call from Mr. Louis F. Guggini of Geo-Engineering, representing the applicant, requesting that final action on the application (DMEA Docket 3576) be deferred pending submission by him of supplemental information on the U. S. Vanadium Corporation drilling. According to Mr. Guggini, these data will prove the existence of ore bodies on the Topaz claims.

In view of the supplementary data that should arrive in the next week or ten days, it appears advisable to defer the final Field Team recommendation on proposed project until after a review of these data is made.

The Survey copy of the brochure is returned herewith.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (11)

TRANSMITTED

MAR 18 1955

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

February 2, 1955

Memorandum

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

From: W. P. Williams

Subject: DMEA 3576 (Uranium), Uranium Ventures, Inc., Topaz claims, San Miguel County, Colorado

Enclosed are 11 copies of a geologic report and accompanying maps by G. C. Simmons, covering the above-referenced property, together with the brochure.

After field examination, Simmons recommends that DMEA assistance to explore the property be denied for these reasons: 1) The proposed program is of a wildcat nature, 2) all Salt Wash sandstone lenses in the area are thin and unfavorable for the occurrence of uranium deposits, 3) faulting and fracturing on the claims present serious geologic and drilling problems, and 4) known ore deposits in the area are all small and difficult to find.

I concur with Simmons' recommendation.

The Atomic Energy Commission was asked for its aid and advice in evaluating the property.

T. E. Mullen
for W. P. Williams
Geologist

TEM/mlr
Enclosures

UNITED STATES DEPARTMENT OF THE INTERIOR

DOUGLAS McKAY, SECRETARY

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

DMEA 3576, Uranium Ventures, Inc., Topaz claims, San Miguel County, Colorado

Uranium

Geologic Report

by

George C. Simmons
U. S. Geological Survey

February 4, 1955

INTRODUCTION

Uranium Ventures, Inc., 105 Park Drive, Grand Junction, Colorado, has submitted an application to the Defense Minerals Exploration Administration, prepared by Geo-Engineering, 304 Main Street, Grand Junction, Colorado. The application, Docket No. 3576, requests DMEA assistance in exploring for uranium ore on the Topaz group of claims, Big Gypsum Valley area, secs. 10 and 15, T. 44 N., R. 18 W., Gypsum Valley mining district, San Miguel County, Colorado, (fig. 1).

The claims were examined on January 19, 1955, in company with Carl Belser, U. S. Bureau of Mines representative, W. P. Williams, W. B. Gazdik and George C. Simmons of the U. S. Geological Survey, and L. P. Gaggini, chief geologist for Geo-Engineering and representative for the applicant.

GEOLOGY AND ORE DEPOSITS

The Topaz group is located on the southwest flank of the Gypsum Valley graben, a valley formed by the collapse of an anticlinal crest following the solution of underlying salt beds. The claims are underlain by the Lower Cretaceous Burro Canyon formation and Upper Jurassic Brushy Basin and Salt Wash members of the Morrison formation. These rocks have been faulted into at least three blocks which are more than 50 percent covered by Quaternary landslide debris. (See figure 2, showing generalized geologic setting of the Topaz claims).

The thickness of the Quaternary landslide debris reaches a maximum of about 50 feet. The Burro Canyon formation consists of mudstones and conglomeratic sandstones, and is probably less than 100 feet thick. The Brushy Basin member of the Morrison formation, which unerlies most of the Topaz group, comprises about 400 feet of reddish and greenish mudstones with minor siltstones, sandstones, and conglomerates. Underlying the Brushy Basin is the 350-foot-thick Salt Wash member of the Morrison formation which consists of reddish and greenish-gray sandstones and mudstones. The upper Salt Wash sandstone lenses form the only known mineralized zone in that part of Gypsum Valley.

The structural setting of the claims is not simple, as they are situated on fault blocks of the ancestral anticline. One major fault of at least 600 feet vertical displacement and another fault of less than 400 feet vertical displacement are known to transect the properties. There are minor fractures within the major fault blocks. Other structural complications may be present but are obscured by the landslide debris.

One diamond-drill hole on the Topaz group allegedly had a chemical assay of 0.10 percent U_3O_8 and 0.85 percent V_2O_5 for a 12-foot thickness. There are 10 offset holes near the mineralized hole at distances of 40 to 210 feet and averaging 100 feet in distance. None of the 10 offset holes had more than a trace of mineralization.

Exposures of Salt Wash on the claims showed that all sandstone members are of unfavorable thickness, the thickest being about 20 feet.

Small, "spotty" mineralization occurs in the general area, but there has been no production from the Topaz group.

PROPOSED EXPLORATION

A $102,555.92 drilling project is proposed. A total of about 60 holes would be drilled. The first 32 holes would be on a roughly rectangular grid of 500-foot and 250-foot spacing. The remaining holes would be used to offset the holes deemed most favorable by the applicant, including up to 26 offsets of the mineralized hole which already has 10 unsuccessful offsets.

CONCLUSIONS AND RECOMMENDATIONS

It is recommended that this application be denied for the following reasons: (1) The applicant proposes a wildcat drilling program which is not testing for a known favorable trend. (2) All Salt Wash sandstone units exposed have unfavorable thicknesses. (3) Faulting and fracturing of the outcrops in addition to the structure concealed by the landslide debris would present serious geologic and drilling problems. (4) Enough offset holes have been drilled to determine if an ore body was present in the vicinity of the mineralized drill hole. (5) Known deposits in the area are all small and "spotty".

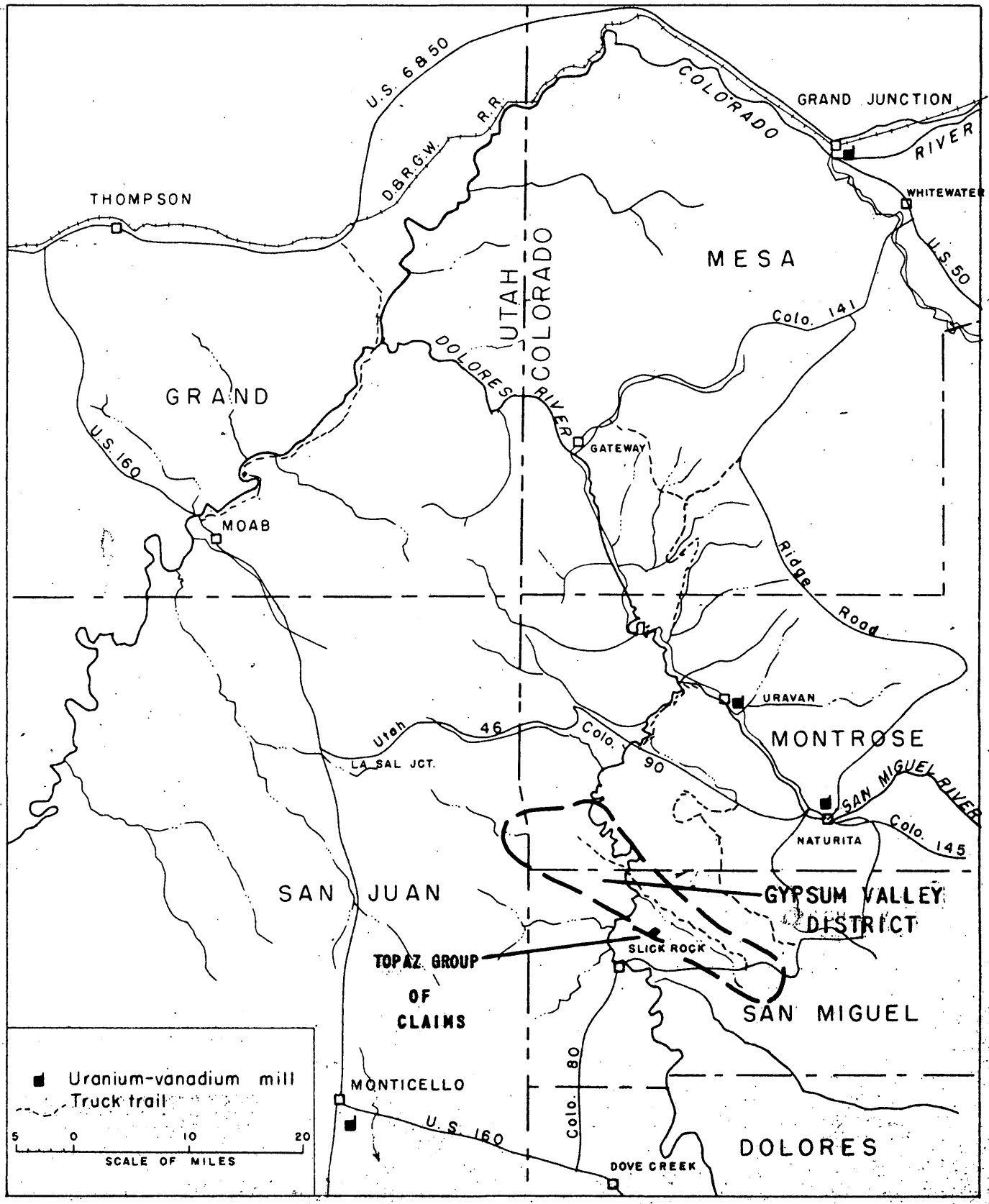
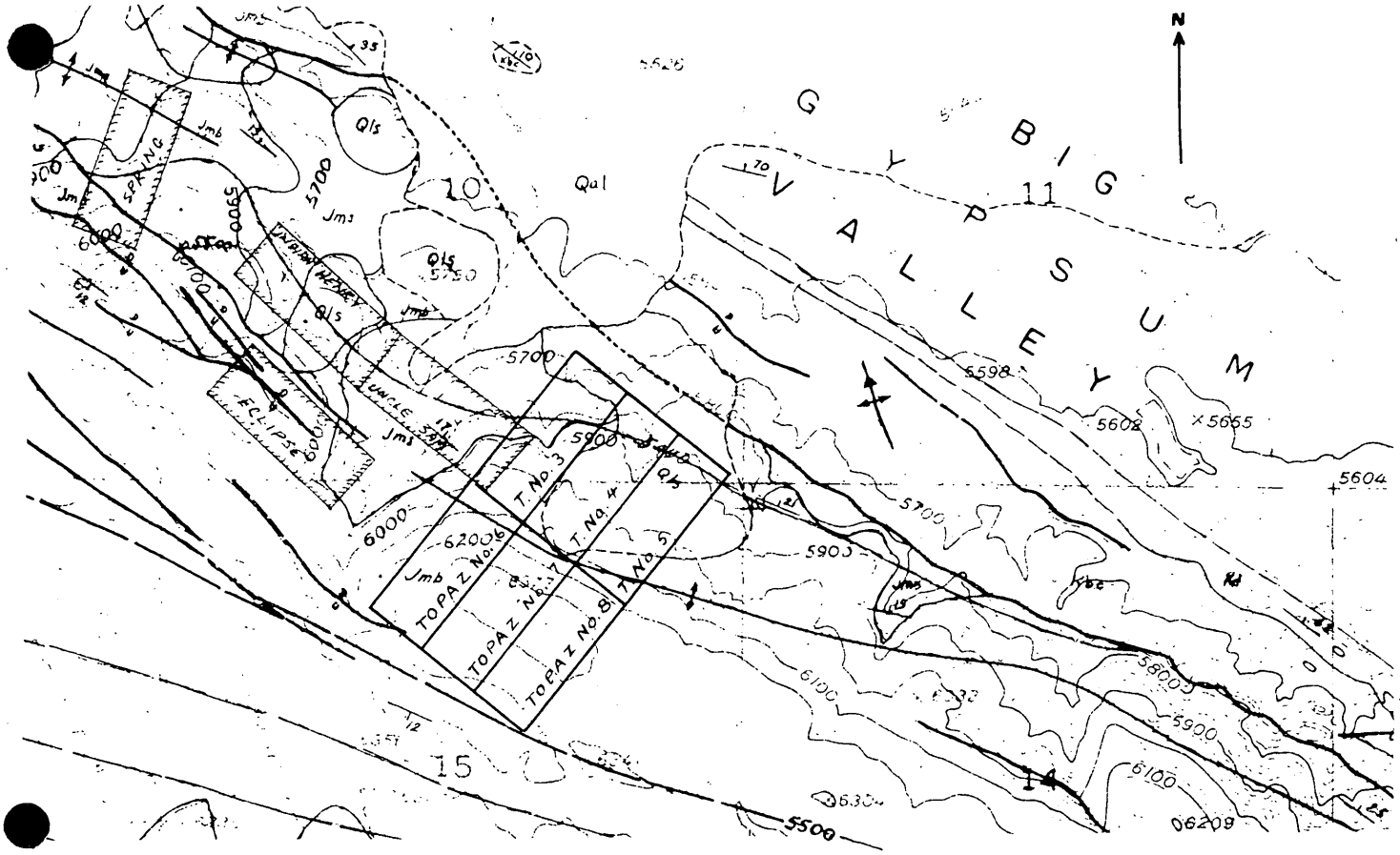


Figure 1. INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF GYPSUM VALLEY MINING DISTRICT AND TOPAZ GROUP OF CLAIMS, URANIUM VENTURES INC., SAN MIGUEL COUNTY, COLORADO



EXPLANATION

QUATERNARY	Qal — ALLUVIUM		DIP AND STRIKE OF BEDS
	Qls — LANDSLIDE DEBRIS		AXIS OF ANTICLINE SHOWING PLUNGE
CRETACEOUS	Km — MANCOS SHALE		FAULT, SHOWING RELATIVE MOVEMENT
	Kd — DAKOTA		FORMATION CONTACT (DASHED WHERE INFERRED)
	Kbc — BURRO CANYON		STRUCTURE CONTOURS ON TOP OF ENTRADA
JURASSIC	Jmb — BRUSHY BASIN		PATENTED CLAIM BOUNDARY, LOCATED APPROXIMATELY
	Jms — SALT WASH	10	LAND SECTION NUMBER

1000 0 3000 FEET

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL

Figure 2. MAP OF PART OF GYPSUM VALLEY MINING DISTRICT SHOWING PATENTED MINING CLAIMS, GEOLOGY AND LOCATION OF TOPAZ GROUP OF CLAIMS, URANIUM VENTURES, INC., SAN MIGUEL COUNTY, COLORADO

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Defense Minerals Exploration Administration
Denver Federal Center
Denver 2, Colorado

DMEA
Date Rec'd
MAR 2 1955
BUREAU OF MINES
Denver, Colorado

March 2, 1955

TRANSMITTED
MAR 18 1955

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3576 (uranium), Uranium Ventures, Inc., Topaz claims, San Miguel County, Colorado

Enclosed are 10 copies of a memorandum by W. P. Williams, U. S. Geological Survey, giving supplemental information on the above subject property. Accompanying the memorandum are one copy each of the logs of 15 holes drilled on the Uncle Sam claim of the U. S. Vanadium Corporation, which adjoins the Topaz group on the west, and one copy of a map showing the location of the 15 holes.

Williams and Simmons, who wrote the original report of field examination, conclude that although two of the 15 holes drilled on the Uncle Sam claim encountered thin ore-grade material, exploration on the Topaz group is not warranted. Their conclusion appears justified, particularly in view of the complex faulted nature of the area proposed for exploration.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (26)

ENHarshman:arh

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

February 25, 1955

TRANSMITTED
MAR 18 1955

Memorandum

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

From: W. P. Williams

Subject: DMEA 3576, Uranium Ventures, Inc., Topaz claims, San Miguel County, Colo. (Uranium)

In response to your recent request I have approached representatives of the above-referenced applicant, and they have supplied me with diamond drill logs of 15 holes drilled on the Uncle Sam claim. The Uncle Sam claim adjoins the Topaz group to the west and is owned and was drilled by the U. S. Vanadium Corporation. The applicants have also supplied a map showing the location of the drill holes on the Uncle Sam claim.

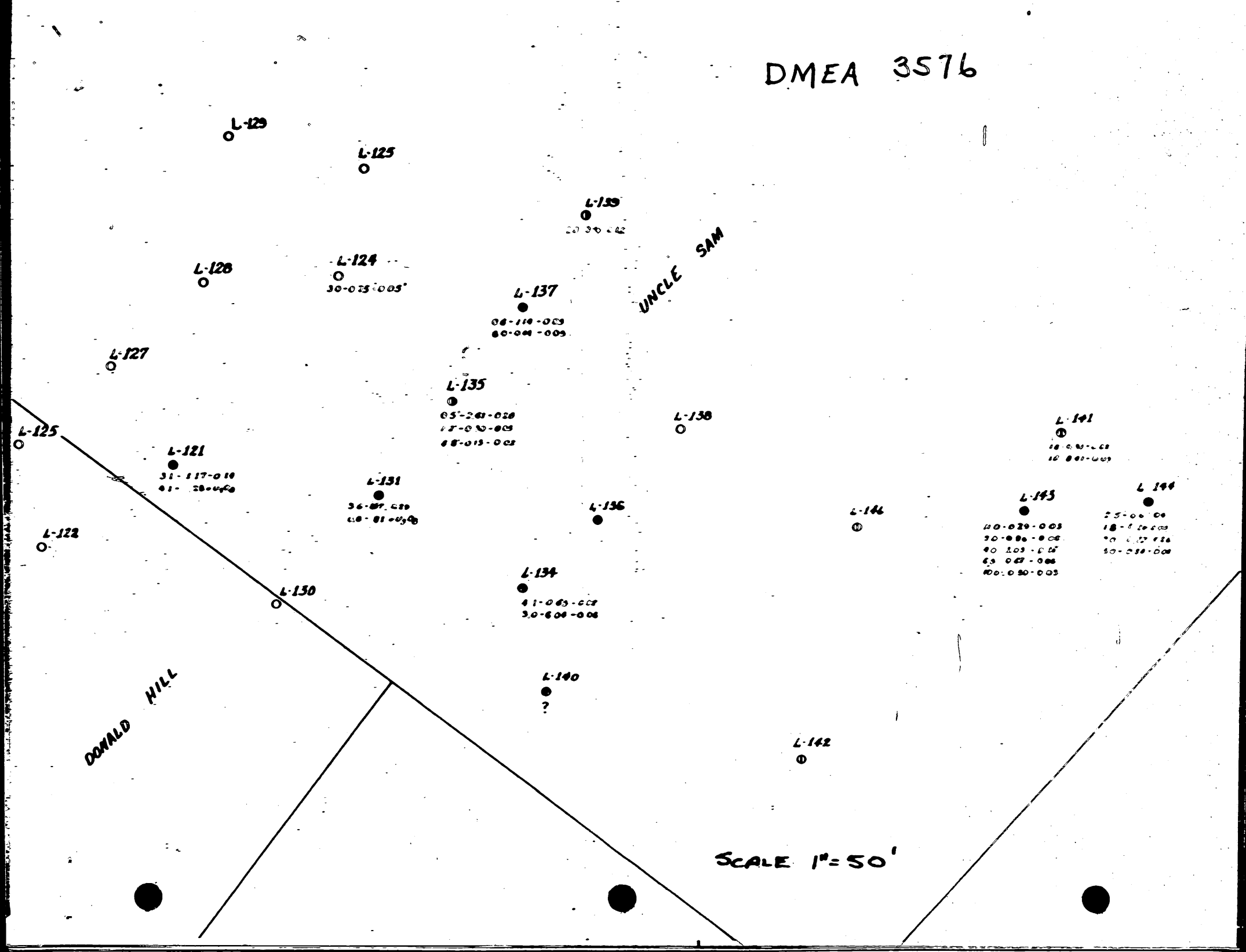
We are sending you herewith one copy each of the drill logs and map. Examination of the drill logs shows that only two holes, nos. L-131 and L-144, encountered thin ore-grade material at depths of 144 and 223 feet.

After consideration of the drill logs neither G. C. Simmons, who wrote the report of field examination, nor I wish to alter Simmons' recommendation that DMEA assistance be denied on the subject property.

W P Williams
W. P. Williams,
Geologist

WPW/mlr

DMEA 3576


L-129
L-125
L-139
L-128
L-124
30-025-005
L-137
UNCLE SAM
L-127
L-135
L-138
L-141
L-125
L-121
L-131
L-136
L-146
L-143
L-144
L-122
L-134
L-130
L-140
?
L-142
DONALD HILL
SCALE 1" = 50'

Diamond Drill Log

Drill Hole No. L-121
Total Depth 130.0
Coordinates N
Collar Elevation

Claim UNCLE SAM
Group GYP VALLEY
E

Date Drilled
Date Logged completed on 10-21-53
Logged By

Summary of Log

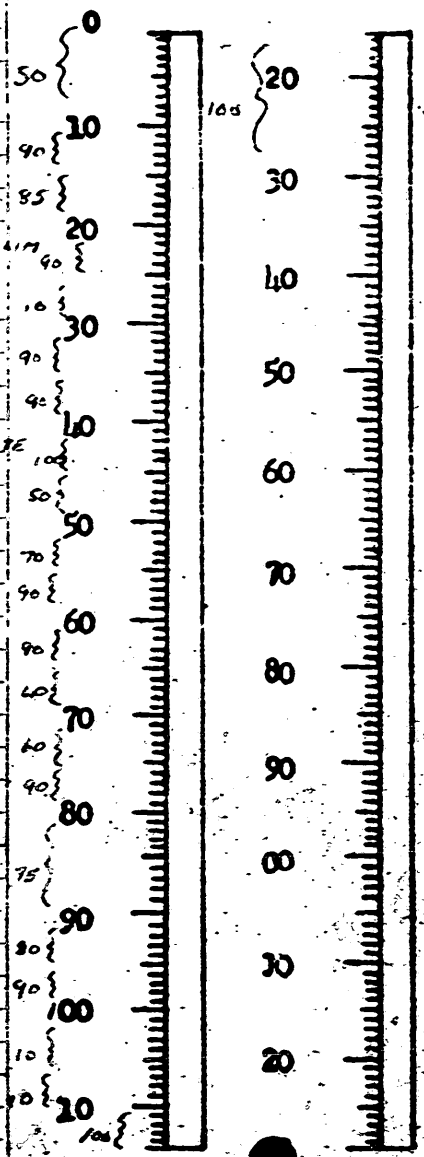
Sample No.	From	To	Feet	V_2O_3	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	6	6.0				MS	R			
	6	23.0	17.0				SS	BN-GY	F	S. INT	S-A LIMONITE
	23.0	30.0	7.0				MS	R/GY			
	30.0	65.0	35.0				SS	BN-GY	F	S-A-GY-P-INT	S-A (BN), S-A GYP. A LIM
											GY CLAY SEAM 62-63.5'
	65.0	75.0	10.0				MS/BU	GY			W/ SS RIBS
	75.0	88.0	13.0				SS	BN-GY	F	S-A-INT-P	S-A LIMONITE
S-1	88.0	90.4	2.4	.05	.01		SS	BN	F	S-INT	
S-2	90.4	93.5	3.1	1.17	0.14		SS	LT-DK GY	F	S-INT-GY-P	PRETTY WELL BROKEN UP
											FEW PIECES GOOD CARNOTITE
S-3	93.5	97.0	3.5	.04	NIL		SS	GY BN	F	S-A-INT-P	(SEE BARNABY LOG BELOW)
	97.0	127.0	30.0				SS	GY-BN	F	S-A-INT-GY-P	
	127.0	129.0	2.0				MS	GY			
	129.0	130.0	1.0				MS	R			

— BARNABY LOG —

FROM	TO	THICK	COUNT	ASSAY U3O8
85.3	86.0	0.7	6200	0.62
86.0	87.3	1.3	4600	0.23
87.3	88.5	1.2	3600	0.13
88.5	89.4	0.9	8500	0.70

NOTE DISCREPANCY IN DEPTH OF ORE WITH DRILLERS LOG. USV PROBE INDICATES THIS TO BE CORRECT DEPTH.

Graphic Log
1" 20'



35 - 10
52 - 2
85-129

Diamond Drill Log

Drill Hole No. L-130
Total Depth 163.0
Coordinates N
E
Collar Elevation

Claim DEPALD HILL
Group LOWER GYP

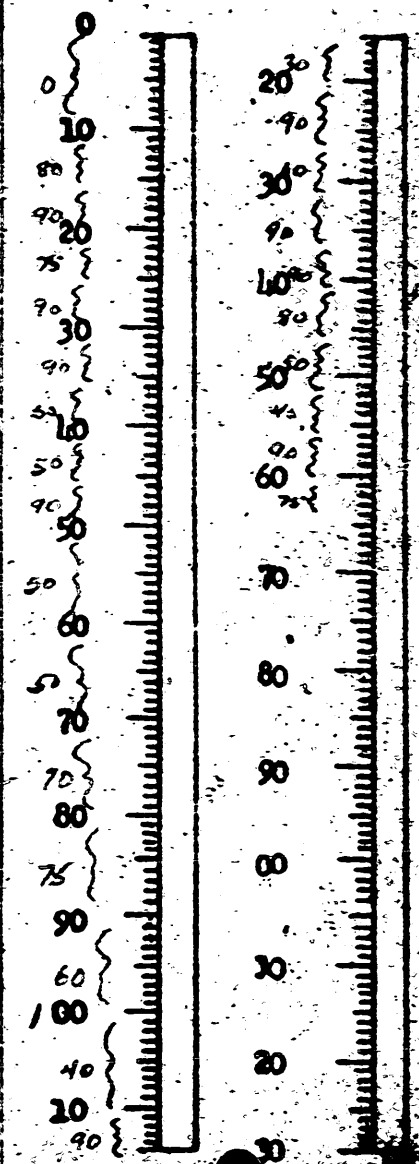
Date Drilled
Date Logged 12-9-53
Logged By J. MOYICA

Summary of Log SEMI - FAVORABLE

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	10.0	10.0								PLUG
	10.0	16.5	6.5				SS	GY BN	M		
	16.5	24.0	5.5				MS/SS	R			
	24.0	30.5	6.5				SS	GY	F-M	A; GY; P	MS CONGL.
	30.5	38.0	7.5				MS	GY			
	38.0	45.5	7.5				MS	R			
	45.5	48.0	2.5				MS	GY			
	48.0	60.5	12.5				SS	BN-GY	F-M	SA; GY; P	A LIMON STAIN - GYP
	60.5	94.0	33.5				MS	DK GY			+ SS ribs
	94.0	119.5	25.5				SS	BN GY	F-M	SA; GY; SM; P	
	119.5	124.0	4.5				MS	GY			
	124.0	128.5	4.5				SS	BN GY	F	SA; GY; P	very hard in part
	128.5	142.0	4.5				MS	GY			hard ribs
	142.0	150.4	7.4				SS	GY-BN	F	SA; GY; WT	
	150.4	151.4	1.0				MS	GY			
	151.4	163.0	11.6				MS	R			hard ribs
		✓									

26 - 14
5 - 5
7 - 1

Graphic Log
1" 20'



RS 151

Diamond Drill Log

Drill Hole No. L-131
Total Depth 185.0
Coordinates N
E
Collar Elevation

Claim UNCLE SAM
Group Lower Gap

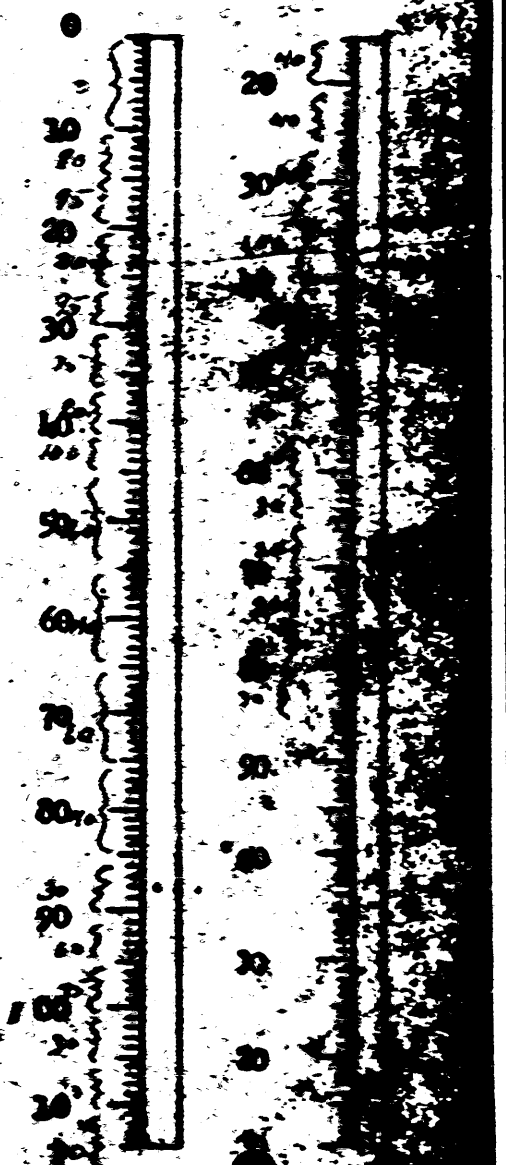
Date Drilled
Date Logged 12-18-53
Logged By J. M.

Summary of Log

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	12.0	12.0				MS	R			
	12.0	28.5	16.5				SS	Gy-BN	F-M	S.A. Gy, P	
	28.5	38.5	14.0				MS	Gy			
	38.5	55.0	16.5				SS	BN-Gy BN	F	S.A. Gy, Gy	
	55.0	68.3	13.3				MS	Gy-R			
	68.3	90.0	21.7				SS	Gy	F	S.A. Gy, P	Very hard
	90.0	92.0	2.0				MS	Gy			
	92.0	95.0	3.0				SS	Gy BN	F		
	95.0	99.0	4.0				MS	Gy			
	99.0	119.5	20.0				SS	BN	F	S.A. Gy & MS	
	119.5	129.5	10.0				MS	Gy			J. H. RIBS
	129.5	129.8	0.3				SS	Gy-BN	F		& CBN
	129.8	143.0	13.2				SS	BN	F-M	S. INT. Gy	
1	143.0	144.2	1.2	0.04	0.03		SS	BN	F	S.	CARB. STAIN ON FRAC. (DS)
2	144.2	145.0	0.8	0.50	0.51		SS	Gy BN	F	S. Gy SM	GOOD U_3O_8, FAIR V_2O_5
3	145.0	147.8	2.8	2.26	0.23		SS	Gy BN	F-M	S.A. Gy SM	GOOD U_3O_8, GOOD V_2O_5
4	147.8	148.8	1.0	0.29	0.01		SS	BN	F	S.A. Gy SM	CARB ON FRAC.
	148.8	160.0	11.2				MS	Gy			
	160.0	180.0	20.0				SS	BN	F-M	S.A. Gy SM; INT	
	180.0	184.0	4.0				MS	Gy			
	184.0	185.0	1.0				MS	R			
		✓									
								BARNEBY LOG		eU_3O_8	
								146.7 - 150.2		.47	
								172.6 - 173.4		.21	

2 - 4
20 - 10
18 - 11
20 - 4

Graphic Log



Diamond Drill Log

Drill Hole No. 1-134
Total Depth 245.0
Coordinates N
Collar Elevation

Claim OSCAR SOM
Group LASER GRP
E

Date Drilled
Date Logged 2-16-54
Logged By JM

Summary of Log FAVORABLE

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	30	30								PLUG
	30.0	54.0	24.0				MS	21 Gy			@ SS RIBS
	54.0	86.0	32.0				SS	BN-Gy	F-M	Jaspy	
	86.0	93.0	7.0				MS	Gy-BR			
	93.0	103.0	10.0				SS	BN	F	S	
	103.0	132.0	29.0				MS	Gy-BN			@ SS RIBS
	132.0	144.0	12.0				SS	BN-Gy	F	S-102 Gy	
	144.0	156.0	12.0				MS	Gy			wf-SS-ribs
	156.0	176.6	16.6				SS	LBN	F	S	
S-1	176.6	177.0	0.4				SS	Lt-Dk Gy	M	S	FAV V_2O_5 WK U_3O_8
	177.0	190.0	13.0				MS	Gy			@ SS ribs
S-2	190.0	193.4	3.6	Nil	.02		SS	LGy-LBr	F-M	S	DK-V - WKU
S-3	193.4	197.5	4.1	0.65	.02		SS	Dk Gy-Gy	F	S	FV - WKU
S-4	197.5	201.0	3.5	0.04	.06		SS	Br	F-M		WKV - WKU
	201.0	205.0	4.0				MS	Gy-GW			
S-5	205	209.0	4.0	Nil	.01		SS	Gy-Br	F	S-Hams	WKV - WK U SACh
	209	215.0	6.0				MS	Gy			
	215	240.0	25.0				SS	Br		S-A-Some	Quartzite 238-240
	240	243	3.0				MS	Gy			
	243	245	2.0				MS	Rf			

— RADIABY LOG —

FROM	TO	THICK	EU_3O_8
189.1	194.1	5.0	.03
194.1	196.7	2.6	.07
196.7	201.3	4.6	.04
206.6	209.1	2.5	.02

12 - 12
11 - 13
11 - 4
4 - 6
25 - 3
25 - 3

Diamond Drill Log

Drill Hole No. A-135
Total Depth 182.0
Coordinates N
E
Collar Elevation

Claim UNCLE SAM
Group GYD VALLEY

Date Drilled
Date Logged 2-15-54
Logged By J.M.

Summary of Log FAVORABLE

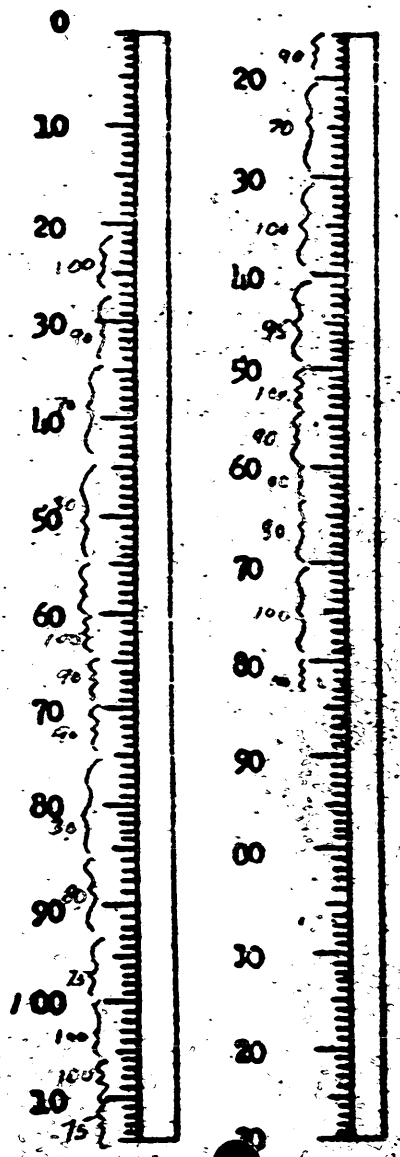
Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Eqv.	Rock	Color	Grain	MS in SS	Remarks
	0	22	22								PLUG
	22.0	35.0	13.0				MS	RllGy			
	35.0	55.0	20.0				SS	BN	F -	S-A-Gy-SMT	SILTY
	55.0	65.0	10.0				MS	Gy			w/ SS ribs
	65.0	110.0	45.0				SS	Gy-BN	F-M	A-INT	
	110.0	111.5	1.5	.08	.01		SS	BN	F	S	WK V. WK U
	111.5	112.0	0.5	2.61	0.20		SS	D Gy	F	S	GOOD V. FAIR U
	112.0	112.5	0.5	0.23	0.02		SS	BN	F	S	BADLY SLICKEN. WK V. WK U
	112.5	119.0	6.5				SS	BN	F	S	
	119.0	129.0	10.0				MS	Gy			w/ SS ribs
	129.0	139.0	10.0				SS	BN	F-M	S	
	139.0	140.2	1.2	0.20	0.05		SS	LGy-BN	F	S-Gy SMT	WK V. WK U. S CBN
	140.2	148.8	8.6				SS	BN	F-M	SM-Gy-P	
	148.8	149.2	0.4	0.20	0.04		SS	BN	F	A-Gy-PS-P	WK V. WK U
	149.2	151.5	2.3	0.15	0.02		SS	BN	F-M	A-Gy-P	WK V. WK U. S-A CBN
	151.5	152.5	1.0	0.10	0.02		SS FRT	BN llGy	F	A-Gy SM-P	WK V. WK U
	152.5	155.0	2.5				MS	Gy			
	155.0	160.0	5.0				SS	BN-Gy	F-M	A-Gy-SMT	
	160.0	162.0	2.0				MS	Gy			
	162.0	163.2	1.2	0.10	0.02		SS	L. Gy	F-M	S-A-Gy-P-INT	WK V. WK U STAINK
	163.2	166.0	2.8				MS	Gy			
	166.0	182.0	2.0				MS	R			

— BARNABY LOG —

FROM	TO	THICK	CU_3O_8
111.6	112.3	0.7	.24
112.3	114.5	2.2	.06
114.5	115.4	0.9	.32
140.0	141.2	1.2	.06
159.5	160.9	1.4	.04
160.9	163.5	2.6	.06
165.3	166.5	1.2	.03
175.7	176.7	1.0	.04

20 - 10
54 - 10
35 - 4
5 - 1
1 - 4
RS 180

Graphic Log
1" 20'



Diamond Drill Log

Drill Hole No. L-136
Total Depth 245.0
Coordinates N
Collar Elevation

Claim UNCLE SAM
Group GYP VALLEY
E

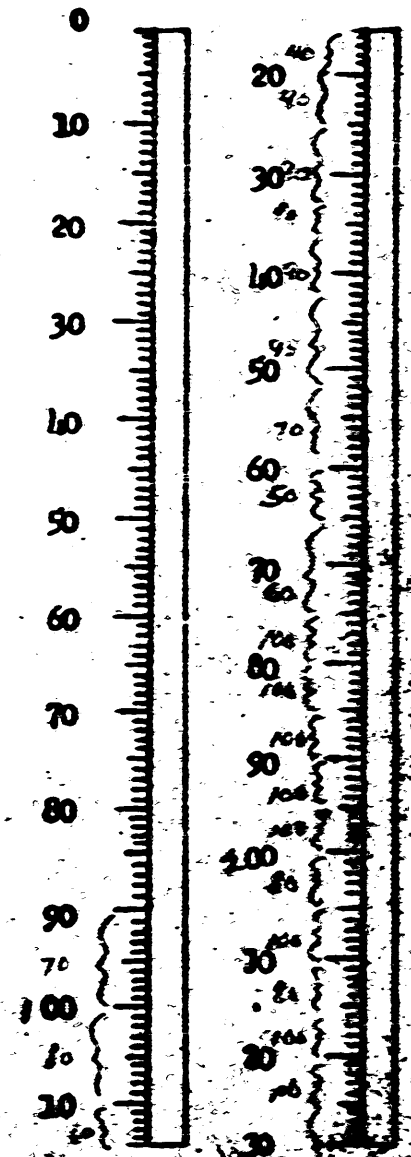
Date Drilled
Date Logged 2-22-54
Logged By

Summary of Log FAULTABLE

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	90	90								PLUG
	90.0	105.5	15.5				SS	LBN	F-M	S-A-SUBR	
	105.5	120.0	14.5				MS	GRR			W/ SS FIBS
	120.0	132.5	7.0				SS	GY-BN	F-M	SUBRD	[illegible] FAIR
	132.0	150.5	18.5				M	DKGY			W/ SS FIBS
	150.5	173.0	22.5				SS	BN	F-M	S	
	173.0	183.0	10.0				MS	GY			
	183.0	196.3	13.3				SS	BN	F	S	
S-1	196.3	196.9	0.6	0.64	0.03		SS	LGY	F	S	FAIR V; VG U
S-2	196.9	197.8	0.9	1.54	0.19		SS	DGY	F	S	GOOD V; GOOD U
S-3	197.8	199.1	1.3	1.60	0.04		SS	GY	F	[illegible]	FAIR V; FAIR U; CBN
S-4	199.1	199.5	0.4	2.49	0.32		SS	[illegible]	F	[illegible]	GOOD V; GOOD U; CBN
S-5	199.5	200.5	1.0	2.04	0.09		SS	GY	F	[illegible]	GOOD V; FAIR U
S-6	200.5	201.0	0.5	0.88	0.61		SS	LGY	F	[illegible]	GOOD V; GOOD U
S-7	201.0	202.2	1.2	1.75	0.13		SS	GY	F	[illegible]	GOOD V; VG U
	202.2	203.2	1.0				MS	GY			
	203.2	232.0	28.8				SS	BN	F	[illegible]	
	232.0	241.0	9.0				MS	GY			W/ SS FIBS
	241.0	245.0	4.0				MS	R			

23-10
19-1
29-9
RS 741

Graphic Log
1" 20'



Diamond Drill Log

Drill Hole No. L-137
Total Depth 177.0
Coordinates N
Collar Elevation

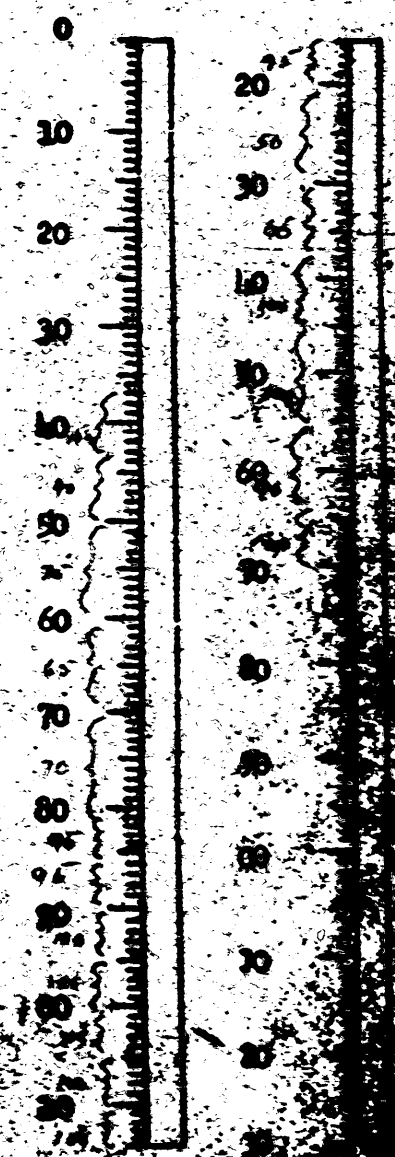
Claim UNCLE SAM
Group GYP
E

Date Drilled
Date Logged 7-19-54
Logged By J. M.

Summary of Log FAVORABLE

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	37									PLUG
	37.0	38.0	1.0				MS	P			
	38.0	53.0	15.0				SS	L BN	F	S	
	53.0	60.0	7.0				MS	Gy			
	60.0	61.5	1.5				SS	L BN	F	S	
S-1	61.5	82.1	0.6	1.14	.05		SS	Gy	F	A Gy SMS	FAIR V, O .10 U_3O_8
	82.1	83.1	1.0				SS	L BN	F	S	
S-2	83.1	84.3	1.2	Nil	.02		SS	L BN	F	S	CARB. 14 FAIR UK U, UK V
	84.3	88.0	5.7				SS	L BN	F	S	
	88.0	91.2	3.2				MS	Gy			
	91.2	115.0	23.2				SS	L BN	F	SS, Gy SMS P	A MS SMS 111-116
	116.0	119.0	4.0				MS	Gy			
	119.0	122.0	3.0				SS	L Gy	F	A Gy INT	
	122.0	125.0	3.0				MS	Gy			
	125.0	137.5	12.5				SS	Gy-BN	F	S	
S-3	137.5	138.8	1.3	0.31	.02		SS	Gy-BN	F	S	UK V, UK U
S-4	138.8	139.9	1.1	0.70	.09		SS	Gy-BN	F	A Gy SMS	FAIR V, UK U
S-5	139.9	141.5	1.6	0.48	.04		SS	Gy-BN	F	SS, Gy P	UK V, UK U
S-6	141.5	142.4	0.9	1.14	.09		SS	Gy-BN	F	S-A Gy SMS	FAIR V, UK U
S-7	142.4	144.8	2.4	0.22	.04		SS	Gy-BN	F-M	S	UK V, UK U
S-8	144.8	145.5	0.7	0.35	.04		SS	Gy-BN	F	S	FAIR V, UK U
	145.5	160.0	14.5				SS	BN	F-M	S, INT Gy	
	160.0	161.0	1.0				MS	Gy			
	161.0	163.0	2.0				SS	Gy	F	N	hard
	163.0	166.0	3.0				MS	Gy			
	166.0	173.0	7.0				SS	Gy-BN	F-M	SS, Gy, P SMS	CARB 163-170
	173.0	176.0	3.0				MS	Gy			
	176.0	177.0	1.0				MS	R			24-4
		✓									3-3
											35-1
											8-3
											7-3

Graphic Log
1" 20'



Diamond Drill Log

Drill Hole No. L-138
Total Depth 230.0
Coordinates N.
E
Collar Elevation

Claim UNCLE SAM
Group GYP VALLEY

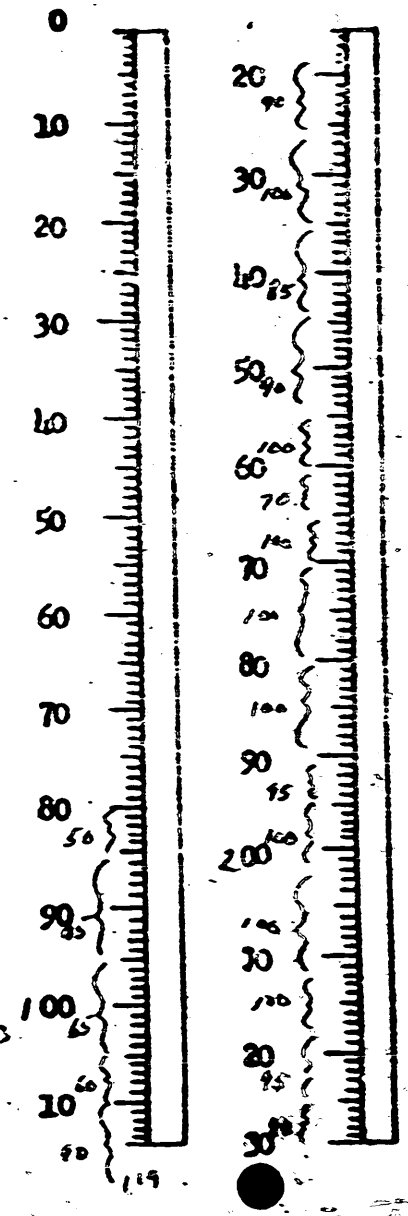
Date Drilled
Date Logged 2-25-54
Logged By J.M

Summary of Log

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	80	80								PLUG
	80.0	92.5	12.5				SS	LBN	F-M	S	
	92.5	102.5	10.0				MS	RHGY			
	102.5	107.0	4.5				SS.	L Gy	F	S	HARD
	107.0	110.0	3.0				MS	Gy			
	110.0	119.0	9.0				SS	Gy-BN	F-M	S	A GYP
	119.0	125.0	16.0				SS	BN	F-M	S	
	125.0	131.0	6.0				MS	Gy			
	131.0	144.0	13.0				SS	BN	F-M	S-A GYP	S GYP
	144.0	147.0	3.0				MS	RHGY			
	147.0	160.0	13.0				MS	GY			
	160.0	172.5	12.5				SS	BN	F-M	S-A GYP	
	172.5	178.0	5.5				MS	Gy			S-A CBN
	178.0	187.5	9.5				SS	BN-Gy	F	S	S-A CBN
	187.5	193.5	6.0				MS	Gy			
	193.5	199.5	6.0				SS	Gy-BN	F	S	
	199.5	204.0	4.5				MS	Gy			
	204.0	208.0	4.0				MS	R			
											HOLE PROBED. BARREN

-13
17 -6
10 -5
6 -5
TS 226

Graphic Log
1" 20'



Diamond Drill Log

Drill Hole No. L-139
Total Depth 190.0
Coordinates N
E
Collar Elevation

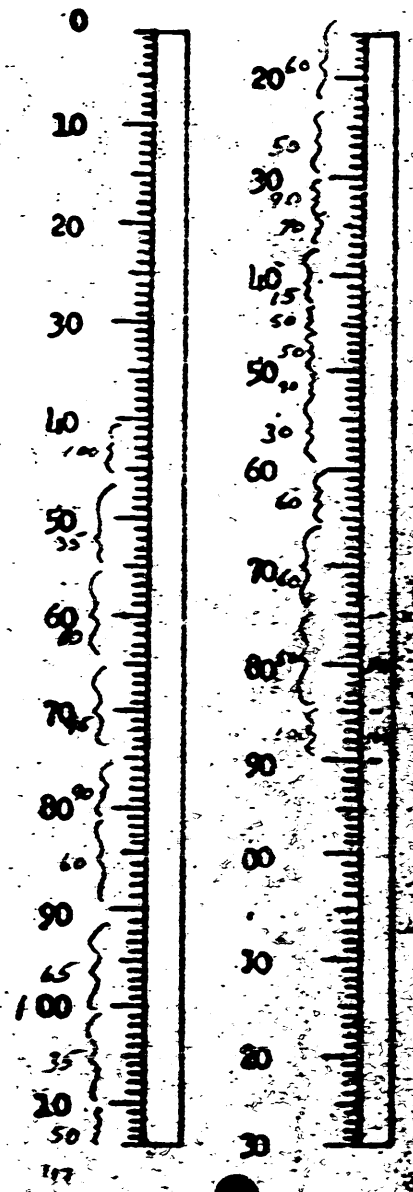
Claim UNCLE SAM
Group GUA VALLEY

Date Drilled
Date Logged 2-25-54
Logged By J. M.

Summary of Log

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	40									PLUG
	40.0	43.0	3.0				MS	R			
	43.0	58.0	15.0				MS	Gy			S SS RIBS
	58.0	81.5	23.5				SS	L BN	F-M	S, INT	
	81.5	117.0	35.5				MS	Gy			
	117.0	119.0	2.0				SS	L Gy	F	R, INT	MUDDY
S-1	119.0	120.0	1.0	NIL	.03		SS	Gy-BN	F	S, INT	VERY HARD, WK V, WK U
	120.0	124.0	4.0				MS	Gy			
	124.0	134.0	10.0				SS	L BN	F-M	S	S GYP
S-2	134.0	136.0	2.0	0.90	0.12		SS	Gy-BN	F	S	FAIR V, WK U, S CBN BADLY BROKEN
	136.0	149.5	13.5				SS	BN	F-M	S-A, Gy, SMS	A LIMONITE, A CBN
	149.5	166.0	16.5				SS	Gy-BN	F	CA, Gy, MT, SMS	Very hard, S CBN
	166.0	178.5	12.5				MS	Gy			
	178.5	185.0	6.5				SS	Gy	F	S	Very hard
	185.0	190.0	5.0				MS	BlGy			SS ribs
											HOLE PROBED:
											24 - 35
											2 - 4
											42 - 12
											7 - 0
											25 185

Graphic Log
1" 20'



Diamond Drill Log

Drill Hole No. E-140
Total Depth 263.0
Coordinates N
E
Collar Elevation

Claim VISCLE SAM
Group GOLD VALLEY
E

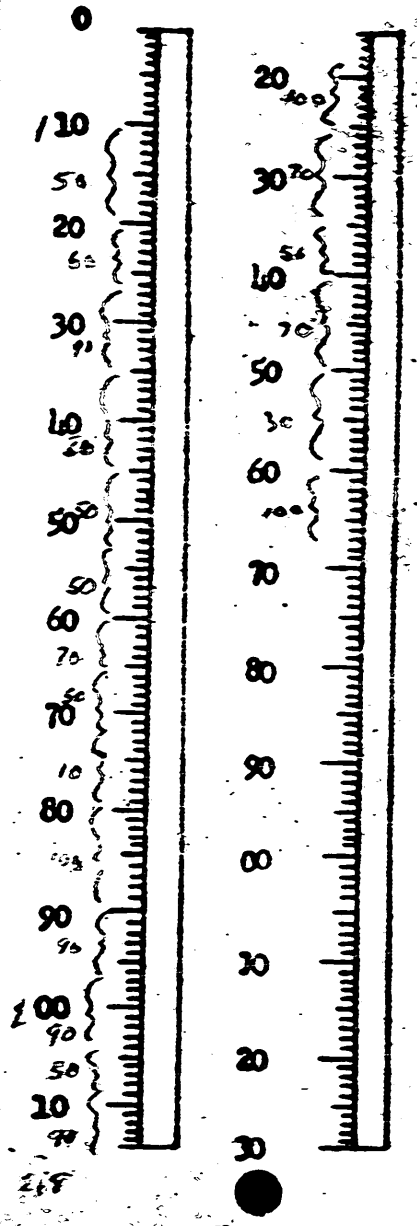
Date Drilled
Date Logged 8-1-80 (comp 2-27-80)
Logged By

Summary of Log

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	112									PLUG
	112.0	130.0	23.0				SS	BN-Gy	F-M	SM; Gy SMS	
	136.0	150.0	14.0				MS	Gy			
	145.0	154.0	9.0				SS	BN	F	S	
	154.0	159.0	5.0				MS	Gy			
	168.0	180.0	12.0				SS	Gy-BN	F	S-A; Gy P	
	171.0	180.0	9.0				MS	Gy			
	180.0	195.0	15.0				SS	BN	F-M	S	
	198.0	202.5	4.5				MS	Gy			
	202.0	208.6	6.6				MS	R-Gy			
	208.0	218.8	10.8				MS	Gy			
S-1	218.0	229.0	[illegible]	0.54	.07		SS	Gy-BN	F	S-A; Gy; BN	WK V; WK U; SCBN
	229.0	263.0	[illegible]				SS	LBN	F-M	S-A; Gy; BN	
	262.5	262.6	4.0				MS	R-Gy			

9	5
12	9
14	4
6	10
45	0
25	265

Graphic Log
1" 20'



Diamond Drill Log

Drill Hole No. L-141
Total Depth 216.0
Coordinates N
E
Collar Elevation

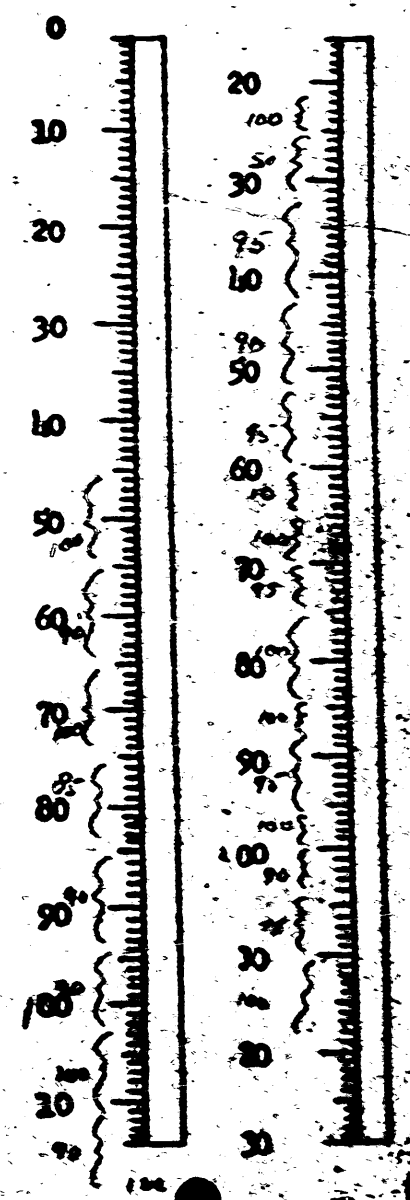
Claim UNCLE SAM
Group GYP VALLEY

Date Drilled
Date Logged
Logged By

Summary of Log

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	40	40								PLUG
	40	47.0	7.0				SS	Gy-BN	F	S-A INT	
	47.0	55.0	8.0				MS	Gy			
	55.0	118.5	63.5				SS	BN	F-M	S-INT	A CBN 76-77.5
	118.5	120.5	2.0				MS	Gy			
	120.5	147.0	26.5				SS	BN	F-M	S-INT	
	147.5	150.5	3.0				MS	Gy			
	150.5	156.0	5.5				SS	LGy-BN	F	S-A-INT	Silty
	156.0	165.0	9.0				MS	Gy			
	165.0	173.0	8.0				SS	LGy-BN	F	A-INT	silty
	173.0	175.0	2.0				MS	Gy			
	175.0	186.0	12.0				SS	LBN	F	S	
S-1	186.0	187.0	1.0	0.31	0.02		SS	LGy	F	S-INT	WK V; WK U
	187.0	195.0	8.0				SS	LGy-BN	F	S-INT	
S-2	195.0	196.0	1.0	0.41	0.03		SS	LGy	F	A-INT	WK V; WK U
	196.0	201.5	5.5				SS	LBN	F-M	S-A-INT	
	201.5	212.0	10.5				MS	Gy			NO FINDS
	212.0	216.0	4.0				MS	R			

Graphic Log
1" 20'



64-2
26-5
6-9
2-2
4-11
85 210

Diamond Drill Log

Drill Hole No. L-142
Total Depth 324.0
Coordinates N
E
Collar Elevation

Claim UNCLE SAM
Group GYP VALLEY

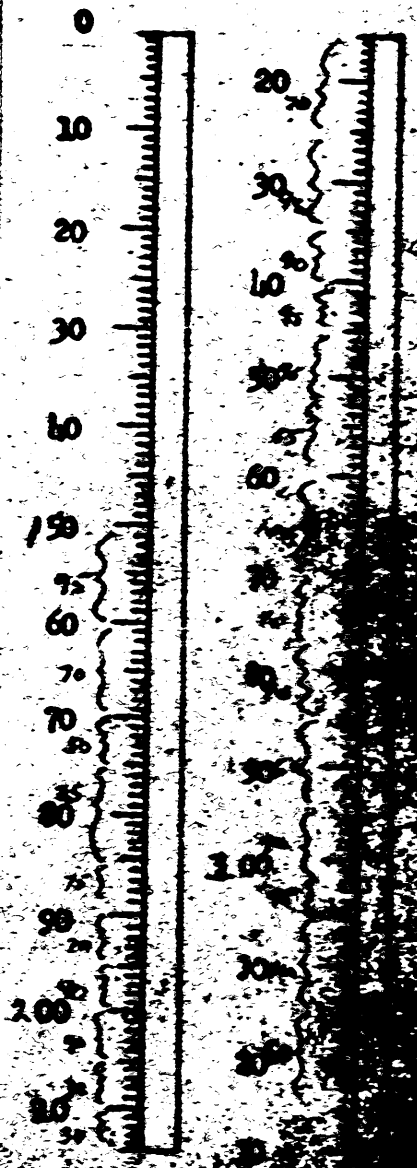
Date Drilled
Date Logged 3-6-54
Logged By JM

Summary of Log Sandstone

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS to SS	Remarks
	0	150	150								PLUG
	150.0	155.0	5.0				SS	Gy	F	A; Gy SMS	
	155.0	157.0	2.0				MS	Gy			
	157.0	186.0	29.0				SS	L BN	F-M	S-A; Gy SMS P	
S-1	186.0	189.5	3.5	0.46	0.08		SS	Gy-BN	F-M	S-A; Gy INT	WK V; WK U; CARN VISIBLE ON FRAC. - PODS REC
	189.5	200.5	11.0				SS	L BN	F-M	S-A; Gy SMS	
	200.5	218.0	17.5				MS	Gy			W/ SS MBR
	218.0	240.0	22.0				SS	L BN	M	S-A; Gy SMS	
	240.0	247.0	7.0				MS	Gy			
	247.0	270.0	23.0				SS	L BN	F-M	S-A; Gy SMS	A CARN 265-270
	270.0	280.0	10.0				MS	Gy			
	280.0	294.0	14.0				SS	BN	F	S-A; Gy SMS	
S-2	294.0	301.0	7.0	0.25	0.04		SS	L Gy-BN	F-M	S-A; Gy SMS P	WK V; WK U; CARN VISIBLE ON FRAC.
S-3	301.0	305.0	4.0	0.15	0.02		SS	L Gy-BN	M	S-A; Gy SMS	WK V; WK U; CARN VIS. IN FRAC
S-4	305.0	306.0	1.0	0.09	0.02		SS	L Gy	M	A; Gy; INT	WK V; WK U
	306.0	312.0	6.0				MS	Gy			
	312.0	315.0	3.0				SS	L Gy	F	A; INT	SILTY
	315.0	318.0	3.0				MS	Gy			
	318.0	324.0	6.0				MS	R			
		✓									

22 - 7
23 - 10
26 - 6

Graphic Log
1" 20'



Diamond Drill Log

Drill Hole No. L-143
Total Depth 250.0
Coordinates N
E
Collar Elevation

Claim UNCLE SAM
Group GYP VALLEY

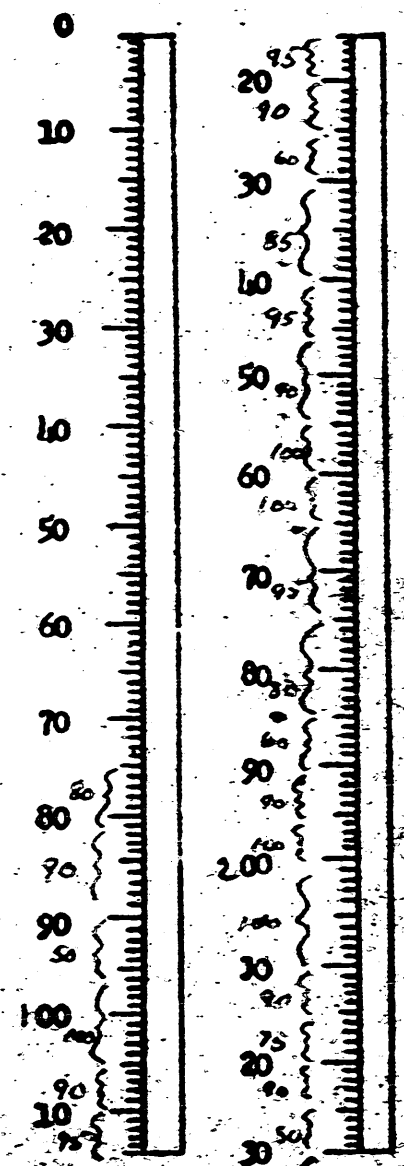
Date Drilled
Date Logged
Logged By J. MOTTLES

Summary of Log

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	76	76								PLUG.
	76.0	81.0	5.0				SS	Gy	F	S	very hard
	81.0	83.0	3.0				MS	Gy			
	83.0	97.0	14.0				SS	L BN	F-M	S; Gy int	
	97.0	99.0	2.0				MS	Gy			
S-1	99.0	105.0	6.0	0.23	0.04		SS	L Gy	F-M	S; Gy int	WK V; WK U;
S-2	105.0	107.0	2.0	0.20	0.02		SS	Gy-BN	F	S	WK V; WK U
S-3	107.0	110.0	3.0	0.38	0.02		SS	Gy	F	S	FAIR V; WK U; VIS CARB
S-4	110.0	113.0	3.0	0.54	0.06		SS	Gy	F	S	FAIR V; WK U
S-5	113.0	115.0	2.0	0.06	0.02		SS	Gy	F-M	S	WK V; WK U
S-6	115.0	119.0	4.0	1.03	0.16		SS	Gy	F	S; Gy int MS	FAIR V; WK U
	119.0	142.0	23.0				SS	L BN	F-M	S	
	142.0	150.0	8.0				MS	Gy			
	150.0	174.0	24.0				SS	L BN	F-M	S	
	174.0	185.0	11.0				MS	Gy			WP SS ribs
	185.0	195.5	10.5				SS	L Gy-BN	F-M	A, Gy & SHS	
	195.5	202.0	6.5				MS				WP SS ribs
	202.0	208.0	6.0				SS	L Gy-BN	F	A, Gy & MS	
	208.0	216.0	8.0				MS	Gy			
S-7	216.0	215.0	4.0	0.36	0.07		SS	Gy	F	A, Gy & MS	FAIR V; WK U
S-8	215.0	217.5	2.5	0.28	0.05		SS	L Gy	F-M	S	WK V; WK U
S-9	217.5	220.0	2.5	0.22	0.02		SS	L Gy	F-M	S	FAIR V; WK U
S-10	220.0	223.0	3.0	0.14	0.01		SS	L Gy	F	S	WK V; WK U
S-11	223.0	225.0	2.0	0.40	0.06		SS	Gy	F-M	S	FAIR V; FAIR U
S-12	225.0	227.5	2.5	0.50	0.06		SS	L Gy	F-M	S	FAIR V; WK U
	227.5	230.0	2.5				SS	L Gy	F	S	
	230.0	240.0	10.0				MS	Gy			
	240.0	250.0	10.0				MS	Gy			

59 - 8
24 - 55
11 - 6
28 - 10
BS 240

Graphic Log
1" 20'



Underground Drill Log

Drill Hole No. L-144
Total Depth 248.0
Coordinates N
E
Collar Elevation

Claim UNCLE SAM
Group GYP VALLEY

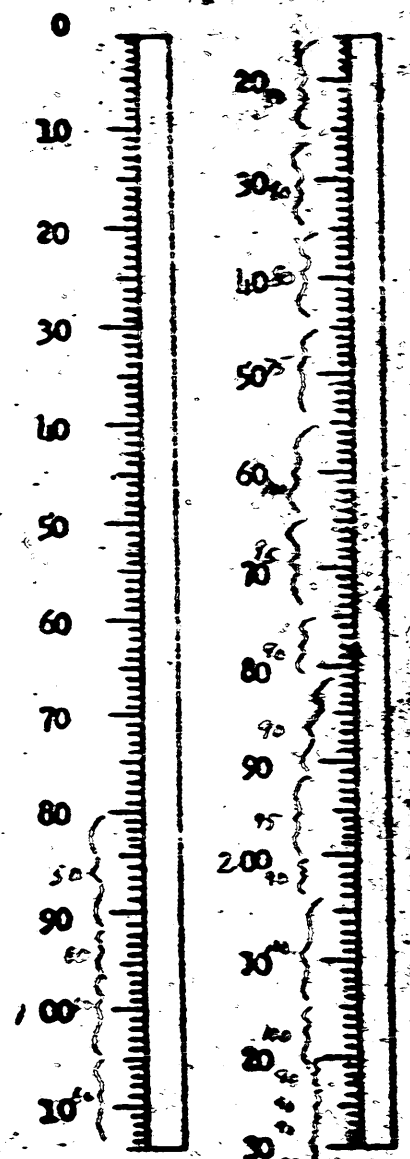
Date Drilled
Date Logged 3-10-54
Logged By JPI

Summary of Log

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	80	80								PLUG
	80.0	110.0	30.0				SS	LBN	F-M	[illegible]	[illegible] 96-97; 104-105
S-1	110.0	112.5	2.5	.26	.04		SS	LBN-Gy	F	S. INT	[illegible]
	112.5	142.0	29.5				SS	LBN	F-M	S-A Gy P	4 Gy [illegible] P 120-122
	142.0	150.5	8.5				MS/SS	Gy	F		
	150.5	177.0	26.5				SS	BN	M	[illegible]	
	177.0	185.0	8.0				MS	Gy			SS 1-2
	185.0	197.0	12.0				SS	Gy-BN	M	[illegible]	
	197.0	206.0	9.0				MS	Gy			4 SS RIBS
	206.0	223.2	17.2				SS	LBN-BN	F-M	S	
S-2	223.2	225.0	1.8	0.28	0.05		SS	Gy-Br	F	S	[illegible]
S-3	225.0	228.0	3.0	0.72	0.26		SS	Gy	F	S-A; LBP	[illegible]
S-4	228.0	232.0	3.0	0.40	0.09		SS	Gy	F	S-A; Gy	[illegible]
S-5	232.0	234.0	2.0	0.25	0.03		SS	LGy	F	[illegible]	[illegible]
	234.0	235.0	1.0				MS	Gy			
	235	248.0	5.0				MS	E			

G - 3
ZT 8
B - 7
ZI - 4
BS 235

Graphic Log
1" = 20'



Diamond Drill Log

①

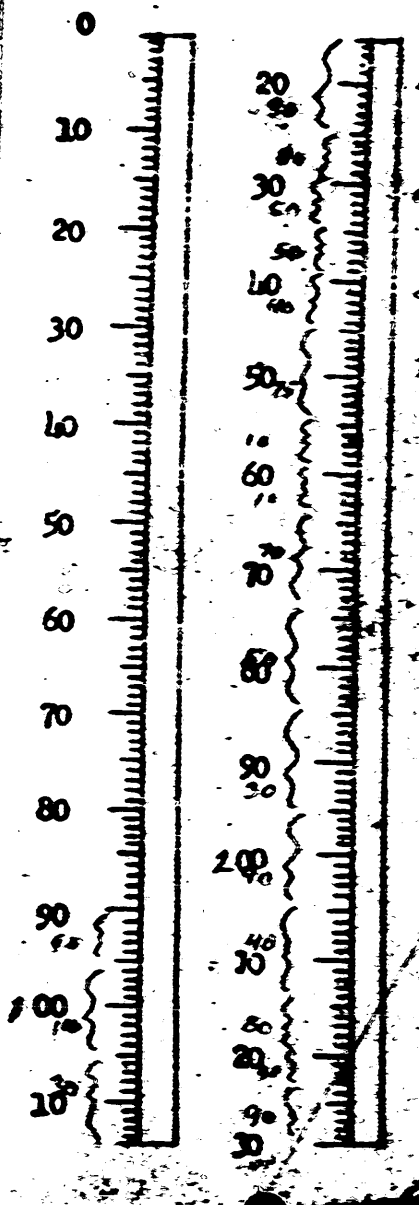
Drill Hole No. L-146
Total Depth 266.0
Coordinates N
Collar Elevation

Claim UNCLE SAM
Group GYP VALLEY
E

Date Drilled
Date Logged 2-19-54
Logged By J.D.

Summary of Log

Sample No.	From	To	Feet	V_2O_5	U_3O_8	Ore Elev.	Rock	Color	Grain	MS in SS	Remarks
	0	90	90								PLUG
	90.0	93.0	3.0				SS	BrGy	M-MC	A.Gy P	
	93.0	99.0	6.0				MS	RDGy			
	99.0	112.0	13.0				SS	Brn	F-M	S	
	112.0	114.0	2.0				MS	Gy			
	114.0	127.0	13.0				SS	LBrn	F	S	
	127.0	129.0	2.0				MS	Gy			
	129.0	198.0	69.0				SS	Gy-Brn	F-M	S.A. GYSUM P	
	198.0	214.0	16.0				MS	Gy			
S-1	214.0	217.0	3.0	0.10	0.02		SS	LtGy	F	A.INT	WK V. WK V BROKEN
S-2	217.0	219.0	2.0	0.06	0.03		SS	LtGy	F	SA SUSPM	WK V. WK V BROKEN
S-3	219.0	220.5	1.5	0.35	0.07		SS	Gy	F	S	FRIK V. WK V
	220.5	228.0	7.5				MS	Gy			POSS. FAULT GOUGE
	228.0	253.0	25.0				SS	LBrn	F-M	S.A.Gy MOP	
	253.0	254.0	1.0				MS	Gy			
	254.0	258.0	4.0				SS	LBrn	F	S.A.Gy MOP	CON 254-258
	258.0	264.0	6.0				MS	Gy			
	264.0	266.0	2.0				MS	RDGy			

69 - 4
7 - 7
25 - 1
4 - 6
BS 264

Graphic Log
1" 20'