IN REPLY REFER TO:

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

November 28, 1956

Memorandum

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw
F. E. Hawkman

Subject: DMEA Contract 4401 (Uranium), Desert Treasure, Inc., (Abby group of claims), Rio Arriba County, New Mexico

Enclosed are the original and nine copies of a joint report of examination by H. F. Albee, U. S. Geological Survey and E. W. Buel, U. S. Bureau of Mines.

The applicant proposes to explore the Abby group of claims by a program of drilling estimated to cost $30,205. The basis for the proposed exploration is an aerial radiometric survey which indicated slight anomalies on the property.

The examining team concludes that the data available on the property are not sufficient to permit an appraisal of the ore potential of the claims. They recommend denial of the application without prejudice.

We concur with the conclusions and recommendations.

John F. Shaw
Supervising Mining Engineer

F. E. Hawkman
Member, Field Team

Enclosures (10)
Differentiating

Bldg. New Customhouse
Denver 2, Colorado

November 1, 1956

Memorandum

To: Secretary to the Operating Committee

From: DMEA Field Team, Region III

Subject: Engineering Report of Examination Docket DMEA 4394 (Uranium) Bend Horse Point Project (Emerald Mines) Grand and San Juan Counties, Utah

Enclosed, for record purposes only, are the original and three copies of an Engineering Report of Examination on the subject property. The Geological Survey participated in the examination, but did not submit a report.

This application was considered as having been withdrawn by the Administrator's letter, dated October 10, 1956.

DMEA Field Team, Region III

Original signed by
W. M. TRAVER

By W. M. Traver
Executive Officer

Enclosures
HMC:ytl
cc
Sec. Op. Comm. (4)
Harshman
Mining Division
Shaw
Healer
Docket 4394
Chron.

REGION III

Memorandum

Building 20
Denver Federal Center
Denver 2, Colorado
October 31, 1956

RECEIVED
DEPARTMENT OF THE INTERIOR
OCT 31 1956
REGION III
DENVER, COLORADO

To: Executive Officer, DMEA Field Team, Region III

From: John F. Shaw

Subject: Engineering Report, Docket DMEA 4394 (Uranium) Dead Horse Point Project (Marmab Mines) Grand and San Juan Counties, Utah.

Enclosed are the original and nine copies of the Engineering Report on the subject project, by Carl Palmer, Mining Engineer, U. S. Bureau of Mines.

Application was made for Government assistance in an exploration program contemplating 3,000 feet of underground work, 10,350 feet of drilling and 3,000 feet of road construction. The cost of the program was estimated to be $107,995.00.

The property was visited for examination on August 30, 1956, but no activity was noted and it appeared that work had been suspended at least one month prior to that time. A copy of a letter from the Administrator to Marmab Mines, received here October 10, states that the application for aid in the proposed exploration project is considered as having been withdrawn and the records closed. Consequently no geological report was prepared.

The engineer considered chances of finding significant uranium ore bodies to be poor and recommended denial, should aid be sought at some future date.

John F. Shaw
Supervising Mining Engineer

JFS:ch

Enc.

cc: 9
DMEA 4394
Chron

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

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF INVESTIGATION BY EXAMINING ENGINEER
REGION III

DIRA ANA

DEAD HORSE POINT PROJECT

MINERAL BURNS

GRAND AND SAN JUAN COUNTIES, UTAH

Uranium

Engineering Report

By

Carl Balser
Mining Engineer
Bureau of Mines

October 29, 1954

DMRA 4394

DEAD HORSE POINT PROJECT
MERNAB MINES
GRAND AND SAN JUAN COUNTIES, UTAH

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DMEA 439A

DEAD HORSE POINT PROJECT
MORRAB MINES
GRAND AND SAN JUAN COUNTY, UTAH

INTRODUCTION AND SUMMARY

Morrab Mines, P. O. Box 729, Moab, Utah, on July 15, 1956 applied to the Defense Minerals Exploration Administration for aid in an exploration project on its Dead Horse Point group of mining claims in Grand and San Juan Counties, Utah. The application, DMEA 439A, requested aid in completing 3,000 feet of crosscutting and drifting, 10,350 feet of drilling, and 3,000 feet of access roads to cost an estimated $107,990.00.

The property was examined on August 30, 1956, by an examining team of the Geological Survey and the Bureau of Mines. The property consists of 95 unpatented mining claims in Grand and San Juan Counties, Utah. Development consists of 21,633 feet of drilling and 175 feet of crosscutting and drifting. Total production was 66.2 tons of ore that contained 0.17 percent WO_3.

The claims lie in the area between the Green and Colorado Rivers. Exposed rocks are beds of Permian, Triassic, and Jurassic ages. The potential ore-bearing stratum is in the basal part of the Triassic Chinle formation, which is underlain unconformably by the Triassic Moenkopi formation and overlain by the Jurassic Wingate Sandstone.

The known uranium deposits in the area are small and scattered, and the rugged topography makes exploration costly.

Morrab Mines had apparently suspended all operations a month before the examination was made. However the claims are in an area geologically

unfavorable for significant uranium deposits. In case operations on the property are resumed, it is recommended that the application be denied.

ACKNOWLEDGMENTS

The AEC was consulted before the examination was made.

Memorandums made by W. P. Williams and John E. Crawford were carefully noted.

LOCATION, TOPOGRAPHY, AND CLIMATE

The 95 unpatented claims are in secs. 30 and 31, T. 26 S., R. 20 E., and secs. 5, 6, 7, and 8, T. 27 S., R. 20 E., SLM, Grand and San Juan Counties, Utah (figs. 1 and 2). The property extends from the top of the mesa down over the south rim to the Moenkopi and Cutler outcrops below. Altitudes range from 4,800 to 6,000 feet.

There is no water or timber on the property. A poor access road, 7 miles in length, leads to Fletcher trail, an all-weather road which, 27 miles to the northeast, connects with U. S. Highway 160 at a point 9 miles north of Moab, Utah and 30 miles south of the Denver & Rio Grande Western railroad at Thompson, Utah.

Labor, materials, and supplies can be obtained in Moab, and uranium ores can be shipped to the Moab mill.

HISTORY AND PRODUCTION

The claims were located during the period 1951-54. Trans Elements Corporation leased the claims to Marnab Mines in February 1955. Some drilling and drifting was done by Marnab and 66.2 tons of ore averaging 0.17 percent U_3O_8 was shipped. The extensive work of the AEC in the area between the Green and Colorado Rivers has resulted in an inferred ore estimate of only 8,000 tons.

OWNERSHIP AND EXTENT

The property consists of 95 unpatented claims in secs. 30 and 31, T. 26 S., R. 20 E., and secs. 5, 6, 7, and 8, T. 27 S., R. 20 E., SLM, Grand and San Juan Counties, Utah. The claims are recorded in the offices of the respective County Recorders as follows:

San Juan County

Claim	Book	Page	Date Located	Location					
Highlander #1	233	128	11/13/54	Arrowhead Uranium Company					
Highlander #2	233	129	"	"	"	"			
Highlander #3	233	130	"	"	"	"			
Highlander #4	233	131	"	"	"	"			
Highlander #5	233	132	"	"	"	"			
Highlander #6	233	133	"	"	"	"			
Highlander #7	233	134	"	"	"	"			
Highlander #8	233	135	"	"	"	"			
Highlander #9	233	136	"	"	"	"			
Marshall #1	11	19	4/25/52	"	"	"			
Discovery #1	43	115	11/12/54	Kenneth Allred					
Discovery #2	43	116	"	"	"				
Discovery #3	43	116	"	"	"				
Flatlander	43	114	11/12/54	Arrowhead Uranium Company					
Lunch Spot	B-4	112	8/3/51	Kenneth Allred, and Omar Secrest					
One Down	B-4	112	"	Kenneth Allred, Omar and Art Secrest					
No Count	B-4	112	"	"	"	"	"	"	"
Hot Spot	B-4	113	9/5/51	"	"	"	"	"	"
Arts Jay	B-4	113	"	"	"	"	"	"	"
Dead Horse #1	B-4	113	"	"	"	"	"	"	"
Dead Horse #2	B-4	114	"	"	"	"	"	"	"
Little Spending	B-4	114	"	"	"	"	"	"	"
Blue Jay #1	B-4	115	9/7/54	Omar Secrest					
Blue Jay #2	B-4	114	"	"	"				
Blue Jay #3	B-4	115	"	"	"				
Blue Jay #4	B-4	115	"	"	"				

The leases on the Blue Jay claims are recorded in Book 271, Page 232.

Grand County

Highlander #1	51	73	11/13/54	Arrowhead Uranium Company			
Highlander #2	51	74	"	"	"	"	
Highlander #3	51	75	"	"	"	"	
Highlander #4	51	76	"	"	"	"	
Highlander #5	51	77	"	"	"	"	
Highlander #6	51	78	"	"	"	"	

Claim	Book	Page	Date Leased	Lessor		
Highlander #7	51	79	11/13/54	Arrowhead	Uranium	Company
Highlander #8	51	80	"	"	"	"
Highlander #9	51	81	"	"	"	"
Helen #1	51	44	11/12/54	"	"	"
Helen #2	51	45	"	"	"	"
Helen #3	51	46	"	"	"	"
Helen #4	51	47	"	"	"	"
Helen #5	51	48	"	"	"	"
Helen #6	51	49	"	"	"	"
Helen #7	51	50	"	"	"	"
Helen #8	51	51	"	"	"	"
Helen #9	51	52	11/13/54	"	"	"
Helen #10	51	52	"	"	"	"
Ann #1	51	53	"	"	"	"
Ann #2	51	54	"	"	"	"
Ann #3	51	55	"	"	"	"
Ann #4	51	56	"	"	"	"
Ann #5	51	57	"	"	"	"
Ann #6	51	58	"	"	"	"
Ann #7	51	59	"	"	"	"
Ann #8	51	60	"	"	"	"
Ann #9	51	61	"	"	"	"
Ann #10	51	62	"	"	"	"
Nat #1	51	63	"	"	"	"
Nat #2	51	64	"	"	"	"
Nat #3	51	65	"	"	"	"
Nat #4	51	66	"	"	"	"
Nat #5	51	67	"	"	"	"
Nat #6	51	68	"	"	"	"
Nat #7	51	69	11/12/54	"	"	"
Nat #8	51	70	"	"	"	"
Nat #9	51	71	"	"	"	"
Nat #10	51	72	"	"	"	"
Big 4 #1	9-L	376	"	"	"	"
Big 4 #2	9-L	377	"	"	"	"
No Pants #1	51	37	"	"	"	"
No Pants #2	51	38	"	"	"	"
No Pants #3	51	39	"	"	"	"
Smoothbore #1	51	41	"	"	"	"
Smoothbore #2	51	42	"	"	"	"
Smoothbore #3	51	43	"	"	"	"
Calculator #1	51	29	"	"	"	"
Calculator #2	51	30	"	"	"	"
Calculator #3	51	31	"	"	"	"
Calculator #4	51	32	"	"	"	"
Calculator #6	51	33	"	"	"	"
Longle Eagle #1	51	34	"	"	"	"
Longle Eagle #2	51	35	"	"	"	"
Longle Eagle #3	51	36	"	"	"	"

Claim	Book	Page	Date Located	Lessor
Discovery #1	9-L	372	4/5/52	Kenneth Allred
Discovery #1	9-L	373	"	" "
Discovery #2	9-L	374	"	" "
Flatlander	9-L	490	4/27/52	Arrowhead Uranium Company
Big Tree	9-L	367	9/30/51	Kenneth Allred and Omar Secrest
Good Camp	9-L	368	"	" " " " "
Shade Tree #1	9-L	220	8/4/51	Kenneth Allred, Art and Omar Secrest
Big Chance #1	9-L	221	8/3/51	" " " " " "
Bad Trail #1	9-L	222	"	" " " " " "
Bad Trail #2	9-L	223	"	" " " " " "
Bad Trail #3	9-L	224	"	" " " " " "
Bad Trail #4	9-L	225	"	" " " " " "
Bad Trail #5	9-L	226	"	" " " " " "
Bad Trail #6	9-L	227	"	" " " " " "
Last Chance #1	9-L	228	8/4/51	" " " " " "
Last Chance #2	9-L	229	"	" " " " " "
Last Chance #3	9-L	230	"	" " " " " "
Rough Going #1	9-L	240	8/10/51	" " " " " "
Rough Going #2	9-6	241	"	" " " " " "
Rough Going #3	9-6	242	"	" " " " " "
Twin Monument #1	9-K	243	"	" " " " " "
Twin Monument #2	9-K	244	"	" " " " " "
Rainy Day #1	9-K	245	8/22/51	" " " " " "
Rainy Day #2	9-K	246	"	" " " " " "
7 Up	9-K	247	"	" " " " " "

A lease on the Discovery and Flatlander claims is recorded in Book 57, pages 521-2. A lease on the Big Tree and Good Camp claims is recorded in Book 57, pages 513-6. A lease on the Shade Tree No. 1, Big Chance No. 1, Bad Trail Nos. 1 through 6, Last Chance Nos. 1 through 3, Lunch Spot, One Down, No Count, Hot Spot, Arts Joy, Dead Horse No. 1, Dead Horse No. 2, and Little Spring claims are recorded in Book 57, pages 509-512.

A lease on the Rough Going Nos. 1 through 3, Twin Monument Nos. 1 and 2, Rainy Day Nos. 1 and 2, and 7 Up claims are recorded in Book 57, pages 505-508.

A lease was granted on all 95 claims by Trace Elements Corporation in February, 1955 to Morrow Mines, a joint venture of Morgan Mines Corporation, Mohab Silver-Lead Company, and the Bismark Mining Company. The lease was for 10 years with the option of extension for two successive

10-year periods. It will be noted that, although 34 of the claims were located by Arrowhead Uranium Company, their is no record of their transfer to Trace Elements Corporation.

PRESENT STATUS

Exploration and Development

The property has been partly explored by 21,633 feet of drilling and 175 feet of crosscutting and drifting.

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment on the property. Other facilities consist of a frame building near the tunnel portal and a number of access roads. The 315 c.f.m. Gardner-Denver compressor, cars, track, etc. were removed about August 1, and were sold to various operators by August 15, 1956.

DESCRIPTION OF MINERAL DEPOSITS

(taken in part from a memorandum by William R. Gaskin, geologist, U.S.G.S.)

The claims are in the inter-river area between the Green and Colorado Rivers. Exposed rocks are Permian, Triassic, and Jurassic beds. The potential ore-bearing stratum is in the basal part of the Triassic Chinle formation which is underlain unconformably by the Triassic Moenkopi formation and overlain by the Jurassic Wingate sandstone.

The Chinle formation underlying the area is about 200 feet thick, and consists of siltstones, shale, and sandstone with lesser amounts of predominantly limestone conglomerate beds. Silicified and carbonized logs are scattered through the lower part of the formation. Some woody material is richly replaced by uranium minerals.

The one explored deposit is localized in medium- to coarse-grained sandstone and conglomerate that fills a channel about 10 feet deep and 40 feet wide in the top of the Moenkopi formation. Small amounts of secondary copper minerals are associated with the uranium minerals. The uranium mineralization, where exposed in the channel, is erratic, thin, and low-grade.

ORE RESERVES

There are no known ore reserves on the property. A channel 800 feet long by 40 feet wide and 30 inches thick was indicated by drilling to contain 4,000 tons of ore. Subsequent work in the tunnel indicates that the results from the measure drilling were high and, although the channel contains uranium mineralization, it is not of ore grade.

PROPOSED EXPLORATION AND COSTS

The applicant has submitted the following estimated costs:

Independent Contractors

Bulldozing 250 hours at $12.00/hr.	$3,000.00	
9,450 feet measure drilling at $2.00/ft.	18,900.00	
900 feet core drilling at $4.00/ft.	3,600.00	
Total Independent Contractors		$25,500.00

Labor and Supervision

Labor for 3,000 feet of crosscutting	$20,640.00	
Shift boss for 3,000 feet of crosscutting	6,250.00	
Geologist-engineer	9,375.00	
Total Labor and Supervision		$36,265.00

Operating Materials and Supplies

Explosives	$6,000.00
Fuel, oil, and gas	3,000.00
Drill steel	3,000.00

Track (used)	$1,500.00	
Vent pipe	2,000.00	
Miscellaneous	2,500.00	
Total Operating Materials and Supplies		$18,000.00

Operating Equipment

Compressor unit (use allowance)	$3,600.00	
Drills " "	1,200.00	
Slusher " "	600.00	
Trammer (new purchase)	2,000.00	
Fans " "	800.00	
Generator unit (new purchase)	1,000.00	
Lab. crusher " "	475.00	
Total Operating Equipment		$9,675.00

Rehabilitation and Repairs

None

New Buildings, Improvements, Installations

None

Miscellaneous

Maintenance	$1,000.00	
Analytical work	100.00	
Accounting	2,400.00	
Cook	3,600.00	
Boarding house supplies	5,000.00	
Workmen's compensation	1,200.00	
Insurance	1,950.00	
Taxes	800.00	
Total Miscellaneous		$16,050.00

Contingencies	$2,500.00
Total Estimated Cost of Project	$107,990.00

Time for completion -- 13 months

Several of the items listed are somewhat out of line with normal costs.

CONCLUSIONS AND RECOMMENDATIONS

The few known uranium deposits in the area are small and scattered. The Atomic Energy Commission conducted a geologic reconnaissance in the inter-river area and concluded that the district was not worthy of further investigations for uranium deposits. The chances of finding a significant uranium deposit are considered poor, and the examining team recommended that the application be denied.

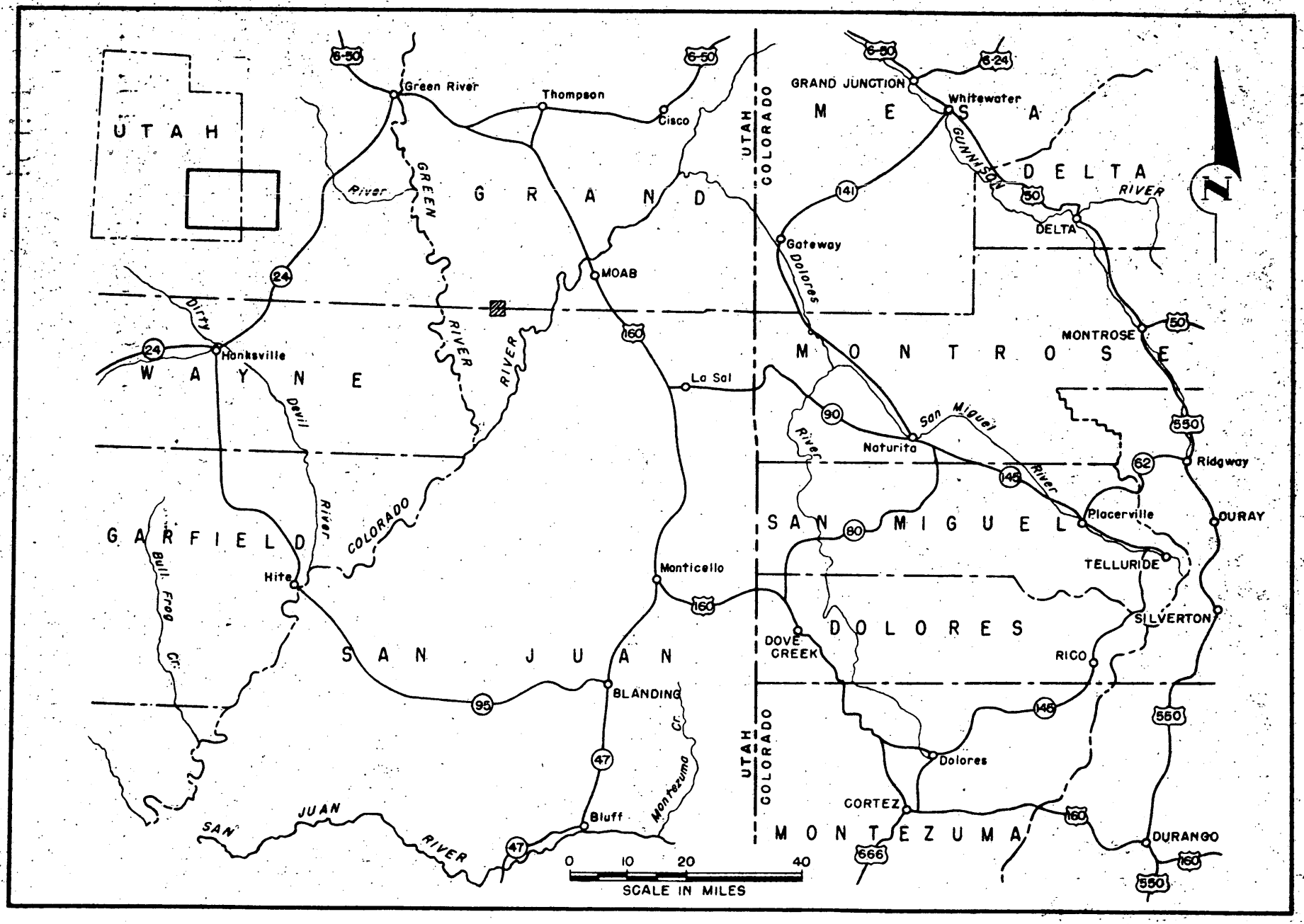
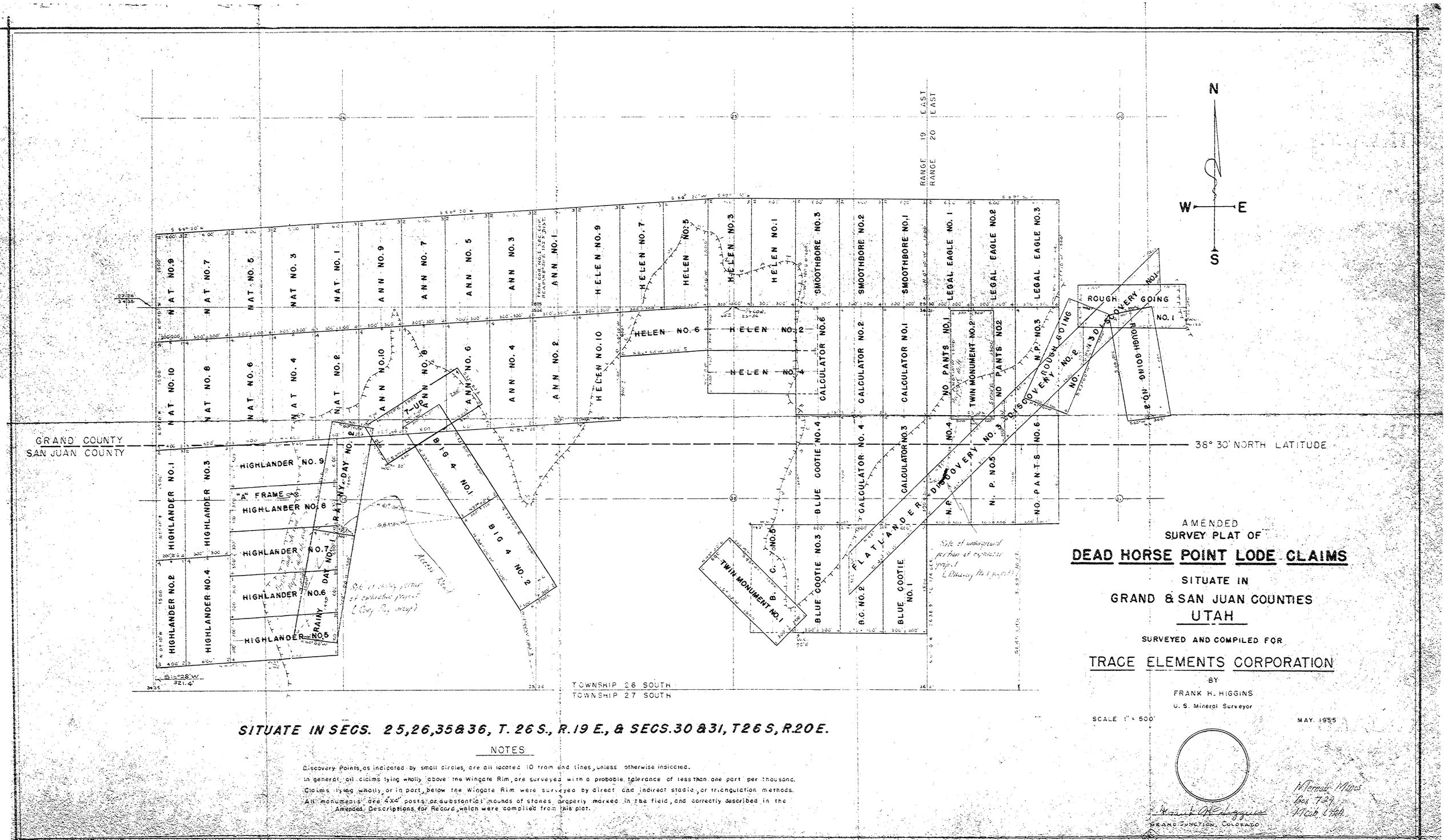


FIGURE 1 - LOCATION MAP, DEAD HORSE POINT PROJECT, MERNAB MINES, GRAND AND SAN JUAN, COUNTIES, UTAH
DMEA 4394



AMENDED
SURVEY PLAT OF
DEAD HORSE POINT LODE CLAIMS
SITUATE IN
GRAND & SAN JUAN COUNTIES
UTAH
SURVEYED AND COMPILED FOR
TRACE ELEMENTS CORPORATION
BY
FRANK H. HIGGINS
U. S. Mineral Surveyor

SCALE 1" = 500'

MAY. 1955

Frank H. Higgins
GRAND JUNCTION, COLORADO

Hermosa Mines
Box 729
Moab Utah

SITUATE IN SECS. 25,26,35&36, T. 26 S., R. 19 E., & SECS. 30 & 31, T 26 S, R. 20 E.

NOTES

Discovery Points, as indicated by small circles, are all located 10' from end lines, unless otherwise indicated.

In general, all claims lying wholly above the Wingate Rim, are surveyed with a probable tolerance of less than one part per thousand.

Claims lying wholly, or in part, below the Wingate Rim were surveyed by direct and indirect stadia, or triangulation methods.

All monuments are 4x4" posts or substantial mounds of stones, properly marked in the field, and correctly described in the Amended Descriptions for Record, which were compiled from this plat.

FIGURE 2 - CLAM MAP, DEAD HORSE POINT PROJECT, GRAND AND SAN JUAN COUNTIES, COLO. DMEA 4394