4/13/55 gla

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

224 New Customhouse
Denver 2, Colorado

April 12, 1955

Memorandum

To: Secretary to the Operating Committee, D.M.E.A.

From: D.M.E.A. Field Team, Region III

Subject: Report of Examination, DMEA Docket 3635 (Uranium)
Western Oil Fields, Inc. Clear View Claims
San Miguel County, Colorado

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

Because of the unfavorable nature of the area, we recommend that the application be denied.

W. M. Traver

W. M. Traver

E. N. Harshman

E. N. Harshman

Encs.

DMEA
Date Rec'd
MAR 3 1955
BUREAU OF MINES
Denver, Colorado

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

TRANSMITTED
APR 12 1955

Building 20, Room 137
Denver Federal Center
Denver 2, Colorado

Colorado Territorial
RECEIVED
MAR 3 1955

March 8, 1955

Memorandum

To: W. M. Traver, Executive Officer, DMEA Field Team, Region III

From: John F. Shaw, Project Supervisor

Subject: Engineering Report, Docket No. DMEA 3635 (Uranium), Clear View Group of Claims, Western Oil Fields, Inc., San Miguel County, Colo.

Enclosed is the original and 10 copies of the Summary, Conclusions and Recommendations prepared by D. R. Shawe, geologist, and Carl Belser, Mining Engineer, and the original and 10 copies of an Engineering Report prepared by Carl Belser covering Docket No. DMEA 3635.

Western Oil Fields, Inc. applied for exploration assistance to aid in exploring the Clear View group by 34,410 feet of diamond drilling at a total estimated cost of $152,816.00. Because of the unfavorable nature of the area and the low production from nearby properties, the examining team concluded that there would be very little likelihood of finding a significant amount of uranium by the proposed exploration.

It is recommended that this application be denied.

JOHN F. SHAW

John F. Shaw

Enclosures

cc 10
DMEA 3635
Charon

JFS/mh

UNITED STATES
DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

DEFENSE MINERALS EXPLORATION ADMINISTRATION

REPORT OF EXAMINATION BY FIELD TEAM
REGION XII

DMEA 3633

Clear View group of claims

Western Oil Fields, Inc.

San Miguel County, Colorado

Uranium

D. R. Shawe, Geologist
Geological Survey

Carl Belser, Mining Engineer
Bureau of Mines

February 25, 1955

BMA 3635

CLEAR VIEW GROUP OF CLAIMS
WESTERN OIL FIELDS, INC.
SAN MIGUEL COUNTY, COLO.

Summary, Conclusions, and Recommendations

By D. R. Shawe
Geologist
Geological Survey

Carl Belser
Mining Engineer
Bureau of Mines

DMEA 3635

CLEAR VIEW GROUP OF CLAIMS
WESTERN OIL FIELDS, INC.
SAN MIGUEL COUNTY, COLO.

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

By D. R. Shaw and Carl Belser

Western Oil Fields, Inc., E. M. Barnholt, Sr., President, 1827 Grant Street, Denver, Colo., has applied for Defense Minerals Exploration Administration aid in exploring the Clear View group by 34,410 feet of diamond drilling at a total estimated cost of $192,816.00.

A field investigation was made on February 17, 1955, by an examining team from the Geological Survey and the Bureau of Mines. Lewis B. Anderson, consultant mining engineer, accompanied the team and represented the applicant.

The Clear View group is in sec.'s 5, 6, 7, and 8, T. 42 N., R 17 W., New Mexico principal meridian, Mineral Mountain mining area, San Miguel County, Colo.

The claims are situated on the top and on the northwest side of Mineral Mountain which slopes steeply down to the Dolores River below. Exposed rocks range from the Burro Canyon formation of the lower Cretaceous on the top of the mountain to the bottom of the Chinle formation of the upper triassic near the Dolores River. The exposed rocks on the Clear View claims range from Burro Canyon formation, through the Brushy Basin member of the Morrison formation to the third sandstone rim above the bottom of the Salt Wash member of the Morrison formation.

All known ore in the region occurs in the Salt Wash member. In the vicinity of the Clear View claims the Salt Wash is about 430 feet thick and contains from 8 to 10 rims. Mineralization appears to be confined to the third to sixth rims or sandstone lenses. At the Horseshoe Mine, adjacent to the Clear View claims on the east, the mineralization is in the fourth and fifth rims, which in some places, are distinct sandstone lenses and in other places merge into one thick rim. The Salt Wash member is exposed on surface in the northwestern four-fifths of the Clear View No. 1 claim. The rest of the surface of the claim group consists of Brushy Basin member of the Morrison formation and Burro Canyon formation.

Mine workings consist of two 10-foot adits and a 70-foot adit driven into the fourth sandstone rim. Production amounts to one truck load of rock showing uranium mineralization which was rejected at the mill because it was too low grade. Production from the adjoining Horseshoe workings are 1397 tons running from .12 to .21 percent U_3O_8 and 1.07 to 1.90 percent V_2O_5. The Mucho Grande mine, about one mile northwest produced 693 tons averaging .19 percent U_3O_8 and 2.03 percent V_2O_5. The Uncle Sam mine, east of the Mucho Grande produced 886 tons averaging .24 percent U_3O_8 and 2.08 percent V_2O_5. No other production of note has been made from the Salt Wash sandstones in this area, and the production from these three mines apparently marks an ore trend that passes east of the Clear View property.

The applicants proposal called for 13,710 feet (30 holes) of Stage I diamond drilling and 20,700 feet (45 holes) of Stage II diamond drilling at a total estimated cost of $152,815.00.

Because of the unfavorable nature of the area and the low production from nearby properties the examining team recommends that the application be denied.

MRA 3635

CLEAR VIEW GROUP OF CLAIMS
WESTERN OIL FIELDS, INC.
SAN MIGUEL COUNTY, COLO.

Engineering Report

By Carl Belzer
Mining Engineer
Bureau of Mines

DMEA 3635

CLEAR VIEW GROUP OF CLAIMS
WESTERN OIL FIELDS, INC.
SAN MIGUEL COUNTY, COLO.

CONTENTS

Engineering Report — Page

Introduction 1
Acknowledgments 1
Location, topography, and climate 2
History and production 3
Ownership and extent 3
Description of deposits 4
Minable ore reserves 5
Present status 5
Exploration and development 5
Mining and milling equipment and other facilities 5
Proposed exploration 5
Estimated cost of project 6
Estimated cost of diamond drilling 7
Summary cost of project 7
Conclusions 8
Recommendations 8

ILLUSTRATIONS

Figure		Follows Page
1.	Location map, Clear View group of claims, Western Oil Fields, Inc., San Miguel County, Colo., DMEA 3635	2
2.	Claim map, showing proposed Stage I drilling, Clear View group of claims, Western Oil Fields, Inc., San Miguel County, Colo., DMEA 3635	2

DMEA 3635

CLEAR VIEW GROUP OF CLAIMS
WESTERN OIL FIELDS, INC.
SAN MIGUEL COUNTY, COLO.

ENGINEERING REPORT

By Carl Balser

INTRODUCTION

Western Oil Fields, Inc., 1887 Grant Street, Denver, Colo., on December 31, 1954, submitted an application for Defense Minerals Exploration Administration assistance on the Clear View group of claims in San Miguel County, Colorado. The DMEA application requested aid in completing 34,410 feet (73 holes) of diamond drilling at an estimated total cost of $152,816.00 - Government participation 75 percent, or $114,612.00. The proposed exploration was to test the upper 230 feet of 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 February 17, 1955. The examining team as a result of their investigations, recommended that the application be denied.

ACKNOWLEDGMENTS

Lewis B. Anderson, consulting mining engineer, accompanied the examining team and represented the applicant.

W. P. Williams, geologist, Colorado Plateau District, Geology Survey, Grand Junction, Colo., assigned D. R. Shawe, geologist, to make the examination as the Geological Survey member of the team. Shawe was accompanied by O. T. Marsh and W. P. Williams, geologists, Geological Survey.

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

LOCATION, TOPOGRAPHY, AND CLIMATE

The Clear View group consists of 4 unpatented claims in a solid block about 3,000 feet long and 1,250 feet wide in sec.'s 5, 6, 7, and 8, T. 42 N., R 17 W., New Mexico principal meridian, San Miguel County, Colo., (figs. 1 and 2).

The claims are high up on the east rim of the Dolores River, about three-fifths of the area being along the steep slope below the rim. Altitudes range from 6,600 feet to 7,300 feet.

A fair 5 mile access road connects the Clear View No. 1 claim with a dirt road in Disappointment Valley from whence State Highway 80 is 5 miles distant, Naturita is 41 miles north, the Vanadium Corporation mill is 56.1 miles north, and Uravan is 66.7 miles north. Norwood is 50.1 miles east and Ridgeway is 91.5 miles east. Grand Junction is 157 miles northeast.

Labor, supplies, and light equipment can be obtained at Naturita, Norwood, and Uravan. Heavy equipment can be obtained in Grand Junction. The nearest railroad is the Denver and Rio Grande Western at Ridgeway. Ore depots are located near Naturita and in Uravan.

Pinion, suitable for some mine uses, grows on the property. Large native timbers and dimension lumber can be purchased in the local towns.

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 purposes can be obtained from local reservoirs about 3 miles distant or from Disappointment Valley. Water for domestic use can be trucked from Naturita or Slick Rock.

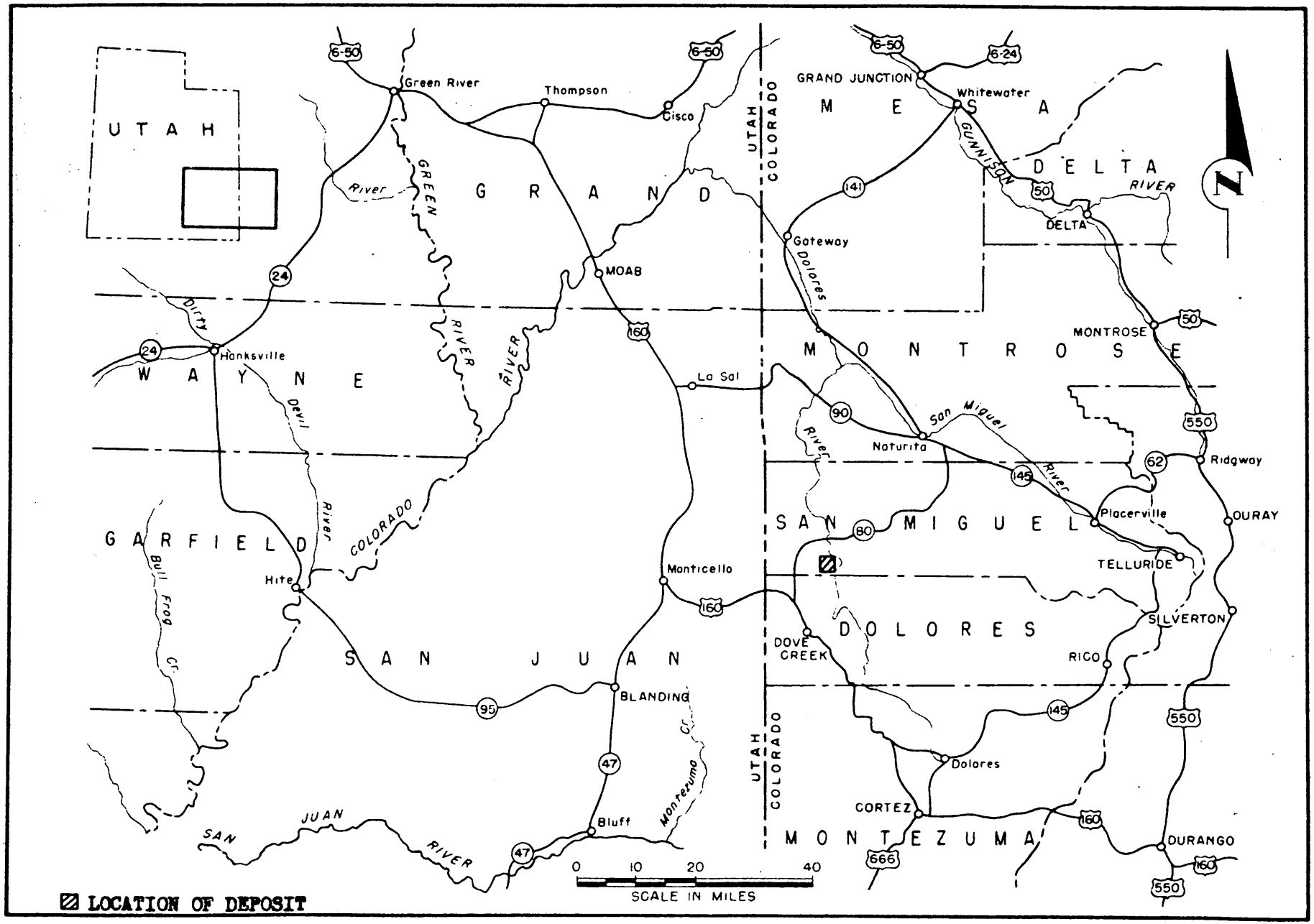


FIGURE 1 - LOCATION MAP, CLEAR VIEW GROUP OF CLAIMS, WESTERN OIL FIELDS, INC., SAN MIGUEL COUNTY, COLO.
DMRA 3635

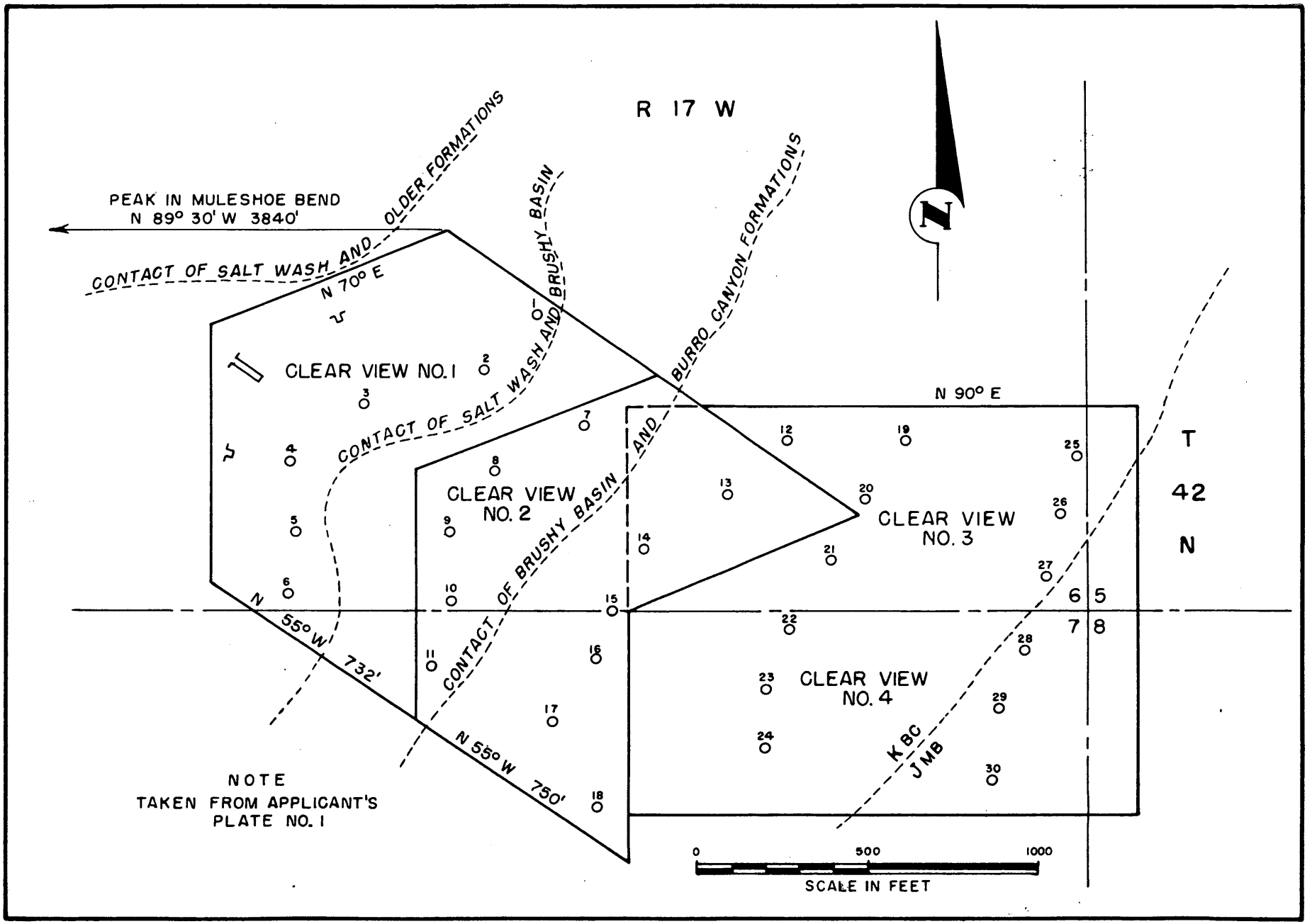


FIGURE 2 - CLAIM MAP, SHOWING PROPOSED STAGE I DRILLING, CLEAR VIEW GROUP OF CLAIMS, WESTERN OIL FIELDS, INC., SAN MIGUEL COUNTY, COLO. (DMEA 3635)

HISTORY AND PRODUCTION

The Clear View claims were located by W. E. Lynn in 1943 for vanadium but it was not until the Government buying schedules were introduced in 1948 that the area became of interest. Three adits, aggregating 90 feet in length, were driven into the fourth and fifth rims on the Clear View No. 1 claim and one truck load of uranium ore was shipped but the ore was rejected at the mill because it was too low in grade. Adjoining the Clear View group on the east are the Horseshoe mines Nos. 1, 3, 5, and 7. About 5,000 feet northwest and across a steep canyon is the Nacho Grande mine and 8700 feet east of the Nacho Grande is the Uncle Sam mine. The production from these properties follows:

Mine	Dry Tons	% U_3O_8	% V_2O_5
Horseshoe No. 1	294.86	.20	1.90
Horseshoe No. 3	28.30	.12	1.84
Horseshoe No. 5	885.61	.21	1.90
Horseshoe No. 7	148.35	.16	1.09
Uncle Sam	[illegible]	.24	2.08
Nacho Grande	6[illegible].51	.19	2.03

Two men are employed on the Horseshoe properties at this time.

OWNERSHIP AND EXTENT

The property consists of 4 unpatented claims containing approximately 77.3 acres in sec.'s 5, 6, 7, and 8, T. 42 N., R 17 W., New Mexico principal meridian, San Miguel County, Colo. The claims are recorded in the office of the County Clerk and Recorder of San Miguel County, Colo. as follows:

Claim	Original Book	Original Page	Original Date Discovered	Original Date Recorded	Amended Book	Amended Page	Amended Date Amended	Amended Date Recorded
Clear View No. 1	174	272	6/1/43	6/21/43	231	397	3/5/54	3/12/54
Clear View No. 2	174	273	6/20/43	6/21/43	231	398	3/5/54	3/12/54
Clear View No. 3	174	273	6/19/43	6/21/43	231	399	3/5/54	3/12/54
Clear View No. 4	174	274	6/21/43	6/21/43	231	400	3/5/54	3/12/54

The claims were originally located by W. E. Lyon and amended by Joe Delaney, Johnson and Peiffer, and Hugo W. Johnson. Affidavits of labor were filed as follows:

Date	Signer
September 25, 1945	Warren Lyon
November 2, 1946	Warren Lyon
April 25, 1947	W. E. Lyon
July 1, 1948	W. E. Lyon
1949	None
June 28, 1950	W. E. Lyon
June 30, 1951	C. J. Moynihan
July 3, 1952	C. J. Moynihan
June 30, 1953	H. V. Cochran
June 17, 1954	Joe Delaney

A sheriff's certificate (purchase under lease) to Charles J. Moynihan dated April 30, 1951 is recorded in Book 216, Page 32.

A mining deed from Charles J. Moynihan to Joe Delaney, et al, made on January 22, 1954, is recorded in Book 216, Page 555.

A five year lease with renewal provisions was granted by Joe Delaney, and Johnson and Peiffer (a partnership) to Western Oil Fields, Inc., on June 15, 1954.

DESCRIPTION OF DEPOSITS

All known ore deposits in the Morrison formation in the area occur in the upper 230 feet of the Salt Wash formation. In the immediate vicinity of the Clear View claims the ore occurs in the fourth and fifth sandstone lenses or rims.

A small lense of ore was opened by a 70-foot adit on the Clear View No. 1 claim. This lense appears to have been about 20 feet long by 10 feet wide. An 18-inch sample taken by Lewis D. Anderson from the lense is reported to have assayed 0.13 percent U_3O_8 and 3.00 percent V_2O_5. However, the truck load of ore that was rejected at the mill, was taken from this lense. The ore, where mined in the Horseshoe mine to the east, appeared to be about 24-inches thick. The sandstone lense ranges from 10 to 30 feet thick and is light in color. The mudstone is green but becomes brownish-red towards the southwest corner of the Clear View No. 1 claim.

MINABLE ORE RESERVES

There are no known minable ore reserves on the property.

PRESENT STATUS

Exploration and Development

Development consists of a 70-foot and two 10-foot adits.

Mining and Milling Equipment and Other Facilities

There is no mining or milling equipment on the property and the only facility consists of an access road which traverses the lower part of the Clear View No. 1 claim.

PROPOSED EXPLORATION

The applicant proposes to explore the claims by 75 diamond drill holes to be drilled in two stages. Stage I consisted of 13,710 feet (30 holes) of drilling to be drilled through the upper 230 feet of the Salt Wash member of the Morrison formation. Stage II consisted of 20,700 feet (45 holes) of drilling to delineate possible ore found in Stage I drilling.

ESTIMATED COST OF PROJECT

The application, as submitted, included all estimated costs.

Estimated Cost of Drilling

The applicant expects to subcontract all bulldozing, blasting, and drilling to independent contractors. Non-core drilling has been estimated at $2.00 a foot, and core drilling at $2.25 to $4.25 a foot, depending on depth. The applicants estimated costs, which have not been broken down into stages, follows:

Independent Contracts

Stage I non-core drilling 8,370 feet at $2.00/ft.	$16,740.00
Stage I core drilling (0-200 ft.) 870 feet at $2.25/ft	1,957.50
Stage I core drilling (200-300 ft.) 450 feet at $2.50/ft	1,125.00
Stage I core drilling (300-400 ft.) 650 feet at $2.75/ft	1,787.50
Stage I core drilling (400-500 ft.) 1,310 feet at $3.25/ft	4,257.50
Stage I core drilling (500-600 ft.) 1,450 feet at $3.75/ft	5,437.50
Stage I core drilling (600-700 ft.) 590 feet at $4.25/ft	2,507.50
Stage II non-core drilling 12,627 feet at $2.00/ft	25,254.00
Stage II core drilling (0-200 ft.) 1,242 feet at $2.25/ft	2,794.50
Stage II core drilling (200-300 ft.) 621 feet at $2.50/ft	1,552.50
Stage II core drilling (300-400 ft.) 1,035 feet at $2.75/ft	2,846.25
Stage II core drilling (400-500 ft.) 2,070 feet at $3.25/ft	6,727.50
Stage II core drilling (500-600 ft.) 2,277 feet at $3.75/ft	8,538.75
Stage II core drilling (600-700 ft.) 828 feet at $4.25/ft	3,519.00
Reaming for casing 8400 feet at $1.50/ft	12,600.00
Bulldozing roads and drill sites 66 days at $100.00/day	6,600.00
Blasting (compressor, labor, explosives) 50 days at $50.00/day	2,500.00
Total independent contractors	$106,785.00

Labor and Supervision

Labor

Draftsman 50 hrs./mo. 600 hrs. at $3.00/hr.	1,800.00
Typist 25 hrs./mo 300 hrs. at $2.25/hr.	675.00
Sampler and field assistant 300 days at $15.00/day	4,500.00

Supervision

Geo-Engineering 12 months at $900.00/mo.	10,800.00
Total labor and supervision	$17,775.00

Operating materials and supplies

Office supplies, map and drill log reproductions and other correspondence with [illegible] at $150.00 a month for 12 months	$ 1,800.00
Survey stakes and other field supplies	100.00
Total operating materials and supplies	$ 1,900.00

Operating equipment

None

Initial rehabilitation and repairs

None

New buildings, installations, etc.

3 trailer houses for project personnel at $100.00 per month rental - 12 months	1,800.00
Total new buildings, installations, etc.	$ 1,800.00

Miscellaneous

Accounting expenses 12 months at $100.00/mo.	1,200.00
Payroll taxes 10 percent of $581.25 for 12 months	700.00
Total miscellaneous	$ 1,900.00

Contingencies

Independent contractors - 15 percent, or	16,017.75
Labor and supervision - 15 percent, or	2,666.25
Operating materials and supplies - 20 percent, or	380.00
New buildings, installations, etc. - 20 percent, or	360.00
Miscellaneous - 50 percent, or	950.00
Total contingencies	$20,374.00

Total estimated cost of diamond drilling	$150,534.00
Average cost per foot for 34,410 feet of drilling	$4.38

SUMMARY COST OF PROJECT

Diamond drilling 34,410 feet at $4.38 a foot	$150,716.00
350 assays at $6.00 each	2,100.00
Total estimated cost of project	$152,816.00
Government participation - 75 percent, or	$114,612.00

Labor, supervision, and contingency estimates are high and would be

cost about $12,000.00 by an engineer's estimate of costs.

CONCLUSIONS

The claims appear to be just west of the main ore trend and the A.E.C. production records for the nearby mines in the area is only 6.8 percent of the amount stated in the application.

RECOMMENDATIONS

In view of the unfavorable nature of the area as determined by the field examination, it is recommended that the application be denied.

IN REPLY REFER TO:

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

TRANSMITTED
APR 12 1955

April 8, 1955

DMEA
Date Rec'd.
APR 11 1955
BUREAU OF MINES
Denver, Colorado

Memorandum

To: Field Team, Region III

From: E. N. Harshman

Subject: DMEA Docket 3635 (Uranium), Western Oil Fields, Inc., Clear View claims, San Miguel County, Colorado

Enclosed are 10 copies of a geologic report by D. R. Shawe, U. S. Geological Survey, covering his examination of the above subject property.

Shawe concludes that the sandstone lenses on the Clear View claims are not thick enough to be favorable for uranium ore deposits, that the known ore deposits north of the claims are small and scattered, and that the program is not designed to test known mineralized or favorable trends. He, therefore, recommends denial of the application for exploration assistance.

I concur with this recommendation.

E. N. Harshman

E. N. Harshman
Member, Field Team

Enclosures (10)

EHHarshman:arh

MINERAL DEPOSITS
DMEA
RECEIVED
APR 6 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

March 28, 1955

Memorandum

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

From: W. P. Williams

Subject: DMEA 3635, Western Oil Fields, Inc., Clear View claims, San Miguel County, Colorado

Transmitted herewith are 11 copies of a geologic report and accompanying maps by D. R. Shawe covering the subject application, and the brochure.

Shawe recommends that DMEA assistance be denied as: 1) the sandstone lenses in the ore-bearing zone are too thin to be favorable for large ore bodies, 2) the known ore deposits in the area are small and scattered, and 3) the applicant proposes a drilling program which would not test for a known mineralized or favorable trend.

I concur with Shawe's recommendation that DMEA assistance be denied.

The Exploration Division of the Atomic Energy Commission, Grand Junction Operations Office, was asked for its aid and advice in evaluating the property.

T. E. Mullens
For W. P. Williams
Geologist

TEM/mlr

Enclosures

Bureau of Mines
Colorado Minerals Survey
RECEIVED
APR 15 1955

UNITED STATES DEPARTMENT OF THE INTERIOR
DOUGLAS McKAY, SECRETARY

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

DMEA 3635, Western Oil Fields, Inc., Clear View claims
San Miguel County, Colorado

Uranium

Geologic Report

by

Daniel R. Shawe
U. S. Geological Survey

March 25, 1955

INTRODUCTION AND SUMMARY

Western Oil Fields, Inc., 1927 Grant Street, Denver, Colorado, has submitted an application, prepared by Geo-Engineering, 304 Main St., Grand Junction, Colorado, to the Defense Minerals Exploration Administration. The application, Docket No. 3735, requests DMEA assistance in exploring for uranium ore on the Clear View group of claims, Horseshoe area, secs. 5, 6, 7, and 8, T. 42 N., R. 17 W., Slick Rock mining district, San Miguel County, Colorado (fig. 1).

The claims were examined on February 17, 1955, in company with Carl Belser, U. S. Bureau of Mines representative, W. P. Williams and O. T. Marsh of the U. S. Geological Survey, and Lewis D. Anderson, engineer for Geo-Engineering and representative for the applicant.

After field examination of the Clear View group of claims, it is recommended that DMEA assistance to explore the claims be denied for these reasons: 1) the sandstone lenses in the ore-bearing zone are too thin to be favorable for large ore bodies, 2) the known ore deposits in the general area of the claims are small and scattered, and 3) the applicant proposes a wildcat drilling program which is not testing for a known mineralized or favorable trend.

GEOLOGY AND ORE DEPOSITS

The Clear View group is on the northeast flank of the Dolores anticline, about 2 miles from the axis of the anticline. The claims are underlain by the Lower Cretaceous Burro Canyon formation and Upper Jurassic Brushy Basin and Salt Wash members of the Morrison formation (fig.2).

The top of the Burro Canyon formation on the Clear View claims has been removed by erosion and the remaining thickness of the formation is probably no more than 150 feet; the formation consists of thick conglomeratic sandstones and interbedded mudstones. The Brushy Basin member of the Morrison formation, which is exposed on the steep slope near the west edge of the group and on a gentler slope at the east edge of the group, comprises about 300 to 350 feet of reddish and greenish mudstones with minor siltstones, sandstones, and conglomerates concentrated near the base of the member. Underlying the Brushy Basin member and exposed only on the steep slope at the west edge of the Clear View group is the 350- to 400-foot thick Salt Wash member of the Morrison formation which consists of reddish and greenish gray sandstones and mudstones. The middle Salt Wash sandstone lenses form the only known mineralized zone in this part of the Slick Rock district.

A 70-foot adit driven on the Clear View No. 1 claim exposes thin mineralized rock, but no production has come from this working (fig. 2). At the adit the ore-bearing sandstone is about 12 feet thick and rests on one-half to 1 foot of greenish gray mudstone above reddish brown mudstone. Above the sandstone 8 feet of reddish brown and greenish gray mudstone underlies a higher sandstone about 12 feet thick. About 800 feet northeast of the Clear View No. 1 adit on the Horseshoe No. 7 claim the lower sandstone exposed at the Clear View is about 20 feet thick and lies on 3 to 4 feet of greenish gray mudstone. Greenish gray mudstone with sparse reddish brown mudstone 2 to 5 feet thick lies

above this sandstone and below a sandstone 30 feet thick which contains the Horseshoe No. 7 ore body (fig. 2). The sandstones at the Horseshoe No. 7 mine merge and pinch out to the north; a sandstone lens of about 35 feet maximum thickness at the same stratigraphic horizon 2,000 feet north of the Clear View No. 1 claim and on the far wall of the canyon re-entrant (fig. 3) contains workings of the Horseshoe Nos. 1, 3, and 5 claims.

The Mucho Grande and Uncle Sam Mines 1 mile northwest and north of the Clear View group are in a sandstone layer stratigraphically near the middle of the Salt Wash member; this layer is probably at the same horizon as the Horseshoe claims.

Study of the ore-bearing zone indicates the favorableness of the ore-bearing sandstone decreases progressively to the south from the vicinity of the Horseshoe claims, and the sandstone is unfavorable for ore at the Clear View group.

Production from the Horseshoe area has been small, and ore deposits are small and scattered. From 1948 through December, 1954, production from the area has been as follows:

Claim	Tons	$\%U_3O_8$	$\%V_2O_5$
Horseshoe No. 1	294.86	.20	1.50
No. 3	28.30	.12	1.24
No. 5	885.61	.21	1.90
No. 7	148.35	.16	1.09
Uncle Sam	226.28	.24	2.08
Mucho Grande	692.51	.19	2.03

PROPOSED EXPLORATION

A $152,816.00 drilling project is proposed. A total of about 75 holes would be drilled. The first 30 holes would be in fences about 500 feet apart, with holes at intervals of about 200 feet on the fences. The remaining holes would be used to offset the holes deemed most favorable by the applicant.

CONCLUSIONS AND RECOMMENDATIONS

It is recommended that this application be denied for the following reasons: 1) all Salt Wash sandstone units exposed on the property have unfavorable thicknesses; 2) known ore deposits in the area are small and scattered; 3) the applicant proposes a wildcat drilling program which is not testing for a known mineralized or favorable trend.

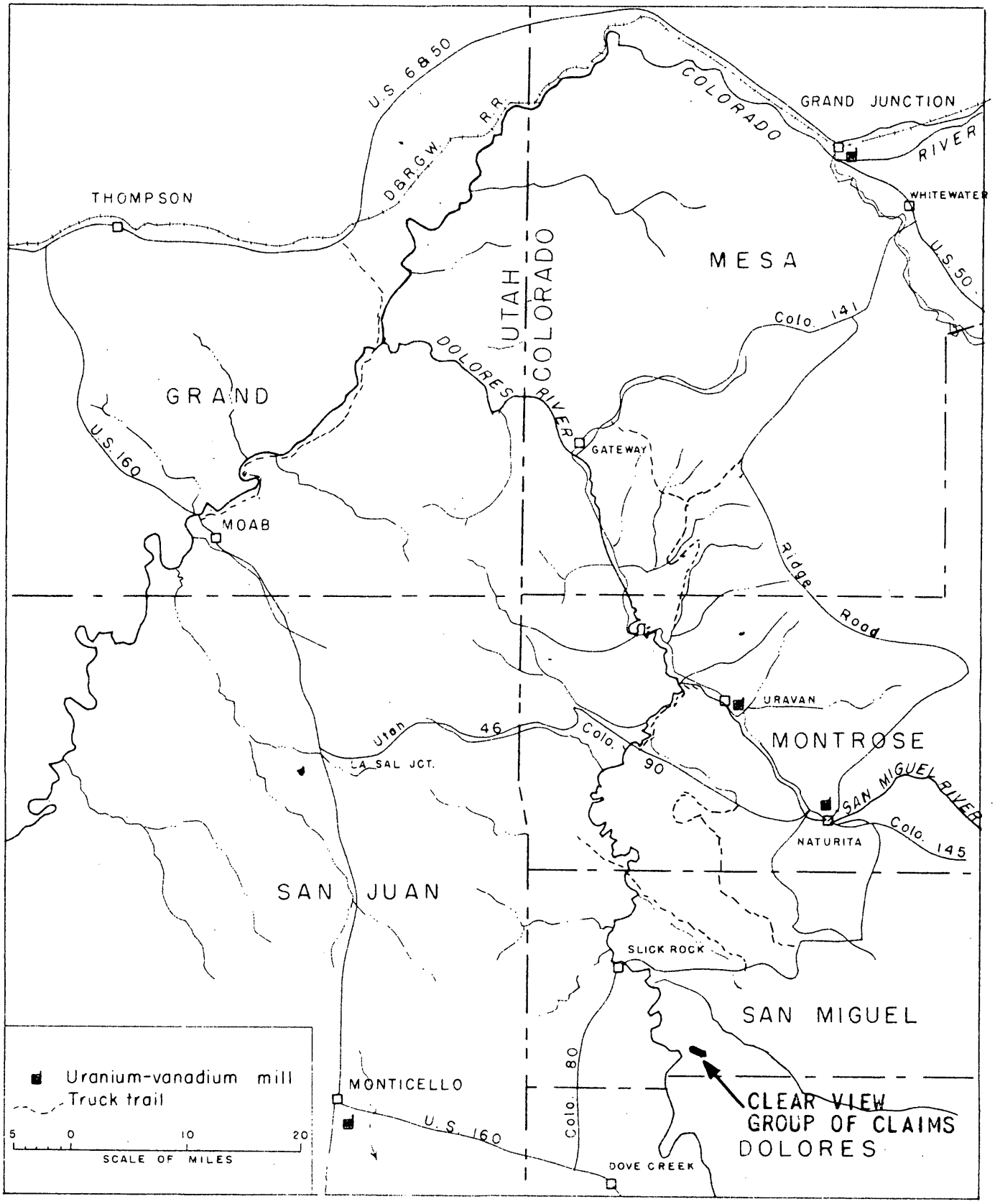
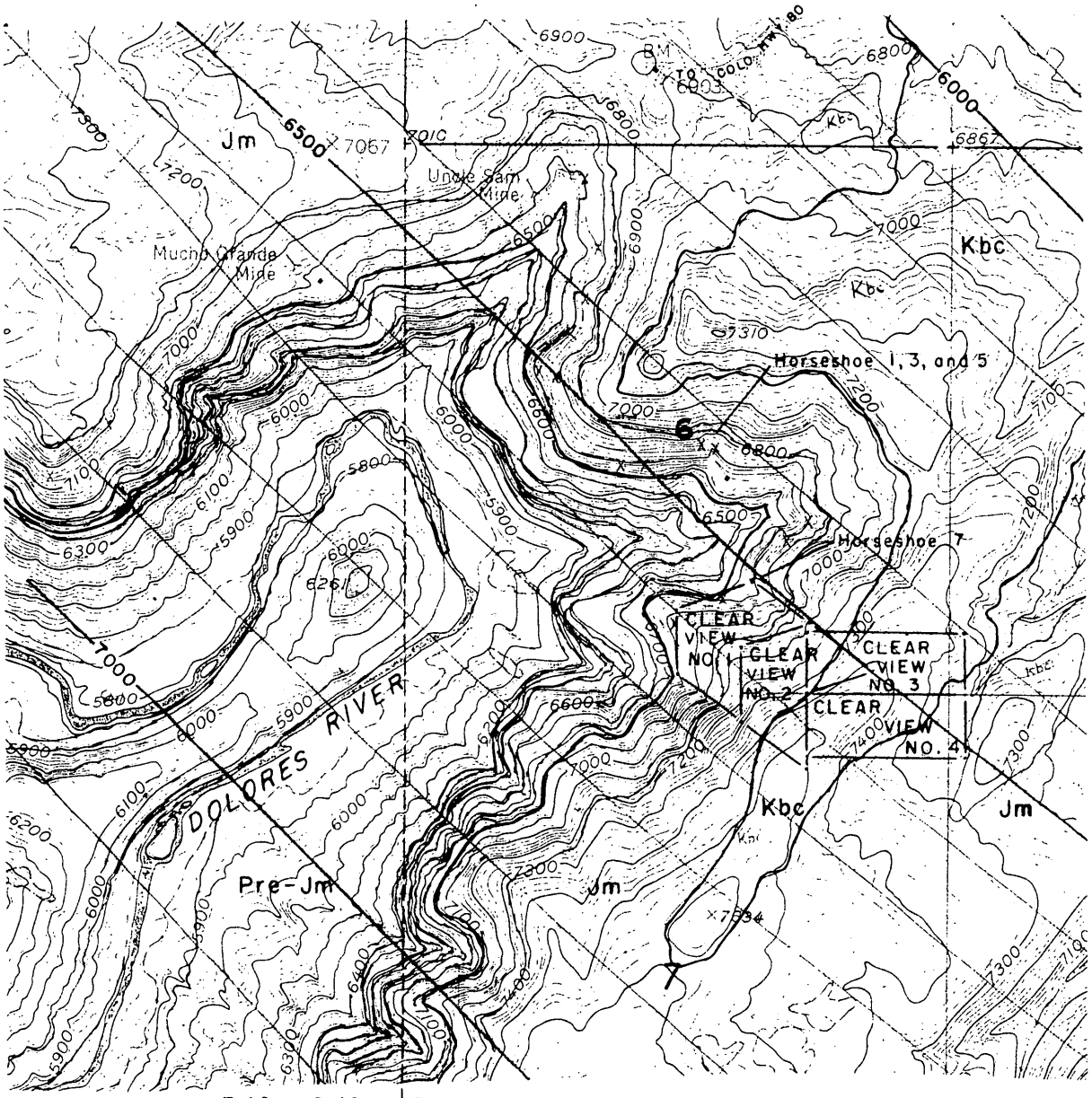


Figure 1. INDEX MAP OF PART OF COLORADO PLATEAU SHOWING LOCATION OF THE CLEAR VEIW GROUP OF CLAIMS, WESTERN OIL FIELD, INC., SAN MIGUEL COUNTY, COLORADO



EXPLANATION

CRETACEOUS	Kbc	BURRO CANYON FORMATION
JURASSIC	Jm	MORRISON FORMATION, UNDIVIDED
	Pre-Jm	PRE-MORRISON FORMATIONS, UNDIFFERENTIATED
	~	FORMATION CONTACT
	—7000—	STRUCTURE CONTOUR ON BASE OF ENTRADA
	X	MINES OR PROSPECTS

1000 0 3000 FEET

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

N

NOTE: TOPOGRAPHY AND LAND LINES FROM U.S. GEOLOGIC SURVEY QUADRANGLE MAP JOE DAVIS HILL. CLAIM BOUNDARIES FROM APPLICANTS MAP

Figure 2. MAP SHOWING LOCATION OF THE CLEAR VIEW GROUP OF CLAIMS, WESTERN OIL FIELD, INC., SAN MIGUEL COUNTY, COLORADO