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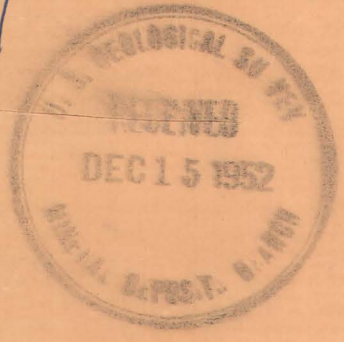
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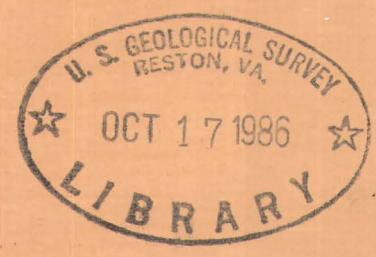
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By
G. K. Brasher

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Trace Elements Investigations Report 163

~~AIC RESEARCH AND DEVELOPMENT REPORT~~
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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Geology - Mineralogy

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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

CARNOTITE RESOURCES OF OUTLAW MESA,
MESA COUNTY, COLORADO*

By

G. K. Brasher

November 1952

Trace Elements Investigations Report 163

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*This report concerns work done on behalf of the Division of Raw Materials of the U. S. Atomic Energy Commission

USGS - TEI Report 163

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Division of Raw Materials, Salt Lake City	19
Division of Raw Materials, Richfield	20
Division of Raw Materials, Butte	21
Division of Raw Materials, Washington	22-24
Dow Chemical Company, Pittsburg	25
Technical Information Service, Oak Ridge	26-31
Tennessee Valley Authority, Wilson Dam	32
U. S. Geological Survey:	
Mineral Deposits Branch, Washington	33-34
Geochemistry and Petrology Branch, Washington	35
Geophysics Branch, Washington	36
Alaskan Geology Branch, Washington	37
Fuels Branch, Washington	38
L. R. Page, Denver	39
R. P. Fischer, Grand Junction	40-41
A. E. Weissenborn, Spokane	42
J. F. Smith, Jr., Denver	43
N. M. Denson, Denver	44
A. H. Koschmann, Denver	45
E. H. Bailey, San Francisco	46
C. E. Dutton, Madison	47
R. A. Laurence, Knoxville	48
R. J. Roberts, Salt Lake City	49
TEPCO, Washington	50-53
(Including master)	

CONTENTS

	Page
Abstract and summary.....	5
Introduction.....	7
Geology.....	12
Ore deposits.....	14
Guides to ore.....	16
Geological Survey exploration.....	17
Reserves.....	19
Indicated and inferred reserves.....	20
Definitions.....	20
Thickness cutoffs.....	21
Grade cutoffs.....	21
Calculation of tonnage.....	23
Calculation of grade.....	23
Reserve blocks.....	24
Potential reserves.....	25
Plans and recommendations.....	26
References.....	27

ILLUSTRATIONS

	Page
Figure 1. Index map of part of the Colorado Plateau showing the location of Outlaw Mesa, Mesa County, Colorado.....	8
2. Map of Outlaw Mesa, Mesa County, Colorado	In envelope
3. Geologic map of Outlaw Mesa, Mesa County, Colorado.....	In envelope
4. Map of northern part of Outlaw Mesa, Mesa County, Colorado.....	In envelope
5. Map of east-central part of Outlaw Mesa, Mesa County, Colorado.....	In envelope
6. Geologic sections of Outlaw Mesa, Mesa County, Colorado.....	In envelope
7. Geologic sections of Outlaw Mesa, Mesa County, Colorado.....	In envelope

TABLES

Table 1. Summary of indicated and inferred reserves 1 foot or more thick.....	6
2. Production of carnotite ore from Outlaw Mesa 1914-48.....	10
3. Production of carnotite ore from Outlaw Mesa 1949-51.....	11
4. Assay data, Outlaw Mesa, Mesa County, Colorado.....	28-117
5. Indicated and inferred reserves on Outlaw Mesa, Mesa County, Colorado.....	In envelope

CARNOTITE RESOURCES OF OUTLAW MESA, MESA COUNTY, COLORADO

By G. K. Brasher

ABSTRACT AND SUMMARY

The U. S. Geological Survey explored Outlaw Mesa for carnotite deposits from 1949 through 1951 with 1,302 diamond-drill holes that totaled 222,150 feet.

Total production from Outlaw Mesa from 1914 through 1951 was about 30,000 short tons of carnotite ore, having an estimated grade of about 0.40 percent U_3O_8 and 1.7 percent V_2O_5 .

The known carnotite deposits are in a number of sandstone lenses in the upper part of the Salt Wash sandstone member of the Jurassic Morrison formation.

The deposits are mainly impregnations of sandstone by carnotite and vanadium-bearing clay minerals. Commonly, the deposits are irregular tabular layers or pod-like or crescentic masses ("rolls") connected by thin layers of mineralized rock. The deposits and rolls have a dominant northeasterly trend.

Useful criteria for recognizing sandstone that might contain mineralized rock are: (1) thick, light-brown sandstone, (2) gray mudstone at the base of and in this sandstone, and (3) abundant carbonaceous material.

The indicated and inferred reserves of carnotite-bearing material, and the pounds of contained U_3O_8 and V_2O_5 are summarized in table 1. Potential reserves, whose existence is based on geologic evidence alone, are estimated to total about 80,000 short tones, averaging about 0.35 percent U_3O_8 and 1.5 percent V_2O_5 .

No further exploration by the Geological Survey is planned; however, additional drilling by private operators is recommended, particularly in ground underlain by mineralized rock.

Table 1.--Summary of indicated and inferred reserves 1 foot or more thick

Reserves	Grade cutoff	Short tons <u>a/</u>	Percent		Pounds <u>b/</u>	
			U_3O_8	V_2O_5	U_3O_8	V_2O_5
Indicated	0.10% U_3O_8 or 1.0% V_2O_5	143,000	0.34	1.41	972,500	4,032,500
	0.05% U_3O_8 or 0.50% V_2O_5	225,700	0.24	1.13	1,083,500	5,101,000
Inferred	0.10% U_3O_8 or 1.0% V_2O_5	125,300	0.32	1.50	802,000	3,759,000
	0.05% U_3O_8 or 0.50% V_2O_5	273,300	0.21	1.13	1,148,000	6,175,500

a/ Figures rounded to nearest 100 tons

b/ Figures rounded to nearest 500 pounds

INTRODUCTION

The U. S. Geological Survey began diamond-drill exploration of Outlaw Mesa on January 20, 1949, and continued until November 4, 1951, drilling 1,302 holes that totaled 222,150 feet. The primary purpose of this drilling was to discover deposits that might be developed into new mines and appraise the carnotite reserves on Outlaw Mesa. Most of the work tested ground away from known deposits, ground that had not been and probably would not be tested by private industry because of the high risk of a poor yield. Preliminary results of this work were reported previously (Stager, February 1950; Brasher and Jobin, February 1951; Brasher, November 1951).

Outlaw Mesa is on the northeast side of the Dolores River and about 10 miles southeast of Gateway, Colo. (fig. 1). The mesa is oval-shaped and covers an area of about 14 square miles. It includes all or parts of secs. 7, 8, 17, 18, 19, 20, 29, 30, and 31, T. 50 N., R. 17 W.; and all or parts of secs. 12, 13, 14, 23, 24, 25, 26, and 36, T. 50 N., R. 18 W., of the New Mexico principal meridian (fig. 2).

Altitudes of the mesa range from about 5,500 feet in the south to more than 7,000 feet in the north. The relief in general is moderate, but steep ravines and rims make access difficult locally. The climate is semiarid and the area is covered with a sparse to thick growth of juniper, piñon, sagebrush and other low scrubby bushes. Water is scarce except after rain storms or during the melt of snow in winter and spring, when the runoff may be excessive.

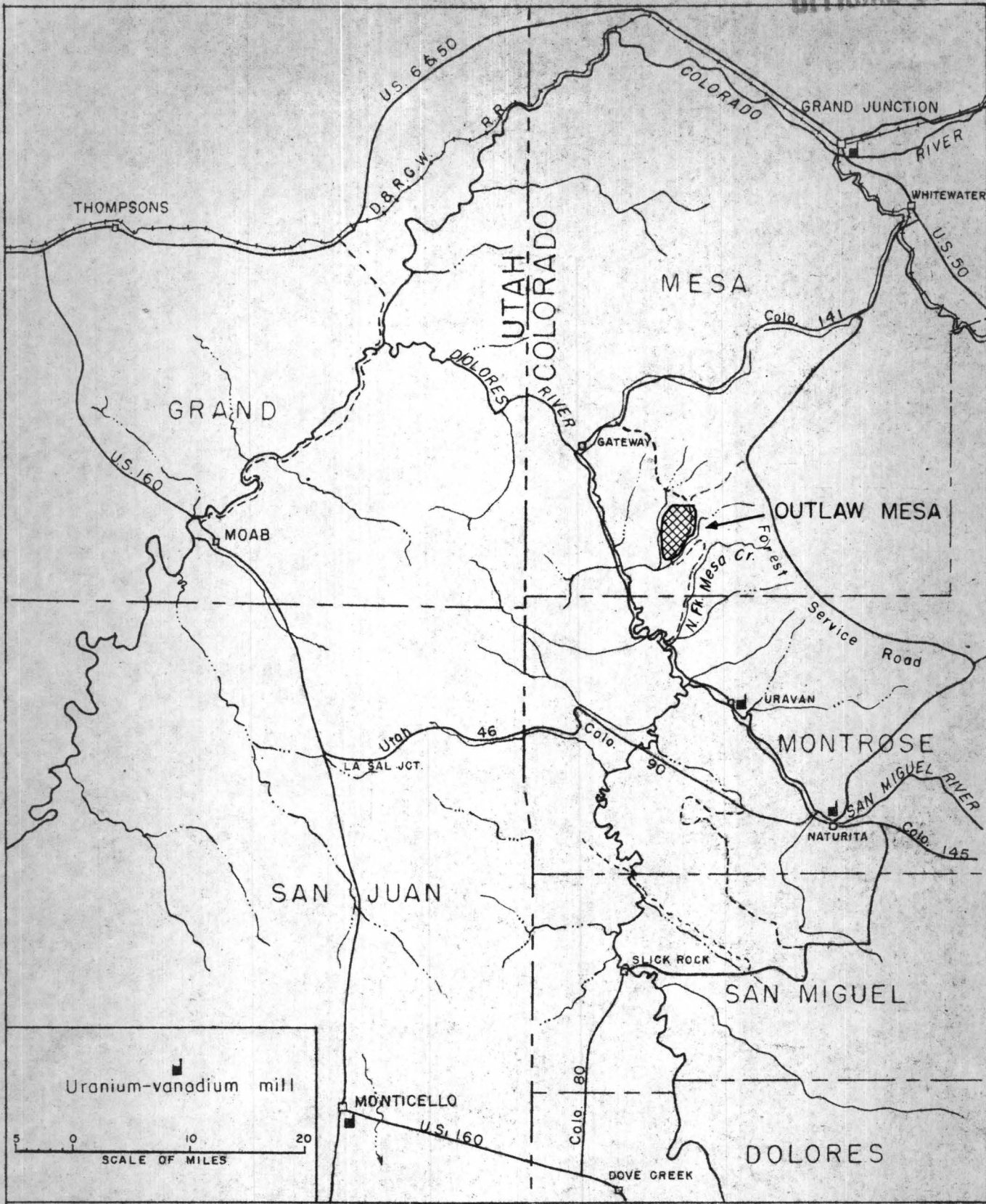


Figure 1.--INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING THE LOCATION OF OUTLAW MESA, MESA COUNTY, COLORADO

The mesa is accessible by three unimproved roads from Colorado Highway 141. One of these roads extends about 25 miles across Blue Mesa and down the North Fork of Mesa Creek to Colorado Highway 141, 11 miles northwest of Uravan, Colo. Another extends about 25 miles, with grades as steep as 24 percent, to Colorado Highway 141 at a point 4 miles northeast of Gateway, Colo. A third road, completed in 1950, extends via Indian Creek to the Forest Service road on the Uncompahgre Plateau, and connects with Colorado Highway 141 at a point 15 miles southwest of Whitewater, Colo. These unimproved roads require frequent filling and grading; haulage in winter and spring is particularly difficult except when the ground is frozen. The mines and most of the claims on Outlaw Mesa are accessible by a network of truck trails that connect with the three unimproved roads.

Total production from Outlaw Mesa is about 30,000 tons of carnotite ore. (Tons in this report are short tons.) Production for the period 1914 to 1948 was about 6,000 tons, having an estimated grade of about 0.50 percent U_3O_8 and 2.5 percent V_2O_5 (table 2). The production from 1949 through 1951 was about 24,000 tons, having a grade of 0.38 percent U_3O_8 and 1.51 percent V_2O_5 (table 3). About 90 percent of this production was from deposits discovered as a result of Geological Survey diamond drilling.

Carnotite was discovered on Outlaw Mesa about 1911 and the first organized mining began in 1914. Only high-grade carnotite ore was mined until 1938, when the increased demand for vanadium caused renewed activity in the district and mining of low-grade ore.

Early prospecting and mining on Outlaw Mesa was confined almost entirely to the outcrops at the rim. No diamond drilling had been done prior to that done by the Geological Survey. A limited amount of exploratory jackhammer drilling was done by the Radium Co. of Colorado and the U. S.

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Table 2.--Production of carnotite ore from
Outlaw Mesa 1914-48 a/

Period	Ore (dry short tons)	Grade in percent	
		<u>U3O8</u>	<u>V2O5</u>
1914-43	4,800	0.50	2.5
1943	420	0.07	2.6
1944	40	0.60 <u>b/</u>	3.2
1945-46	0	---	---
1947	170 <u>b/</u>	0.40 <u>b/</u>	2.0 <u>b/</u>
1948	480	0.43	1.5
Total and averages 5,910		0.50	2.5

a/ Data for 1914-48 from files of U. S. Geological
Survey, Grand Junction, Colo.

b/ Estimated

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Table 3.--Production of carnotite ore from
Outlaw Mesa 1949-51 a/

Claim	Ore (dry short tons)	Percent		Pounds	
		U ₃ O ₈	V ₂ O ₅	U ₃ O ₈	V ₂ O ₅
Ajax	9.59	0.13	0.92	25	176
Blue Bird	423.82	0.24	1.03	2,035	8,729
Fraction	126.00	0.35	2.38	822	5,998
July	123.01	0.77	2.61	1,886	6,418
Jumbo No. 1	63.92	0.27	1.59	343	2,034
Jumbo No. 2	6.18	0.36	2.55	44	315
June	556.25	0.77	2.84	8,560	31,595 ^{b/}
Klondike	47.56	0.23	1.59	215	1,515
Mineral Channel No. 10	185.04	0.29	1.10	1,073	4,061
Mineral Channel No. 12	789.06	0.16	0.79	2,583	12,453
Neglected <u>c/</u>	1,482.28	0.91	2.54	27,118	75,169
Rainbow No. 1	99.10	0.28	1.57	547	3,112
Ronnie No. 1	2,332.00	0.33	1.42	15,397	66,325
Leased public land (Government lease AT-(49-1)-526) Sage Flat or G-1 mine	17,442.00	0.34	1.44	118,606	502,330
Hanson mine	292.82	0.11	1.14	660	6,654
Total and averages	23,978.63	0.38	1.51	179,915	723,330

a/ Data for 1949-51 from the Colorado Raw Materials Office, Atomic Energy Commission, Grand Junction, Colo.

b/ Estimated

c/ Government-owned claim leased to U. S. Vanadium Co.

Vanadium Co. on the Calamity No. 14, Calamity No. 15, and Neglected claims, and by Minerals Engineering Co. near known deposits along the southeast rim. In 1951, diamond drilling was done by the U. S. Vanadium Co. and by Ralph Foster & Sons for assessment work on claims on the mesa. The Climax Uranium Co. also did exploratory and offset drilling on public land within their Government lease AT-(49-1)-526 and on some of their privately owned claims.

This report summarizes the results of the Geological Survey exploration, and contains a brief description of the geology, and ore deposits on Outlaw Mesa. The work was done on behalf of the Division of Raw Materials of the U. S. Atomic Energy Commission.

GEOLOGY

Sedimentary rocks of Mesozoic age are exposed on Outlaw Mesa (fig. 3). The Cretaceous Burro Canyon formation, which consists of sandstone and conglomerate, is the youngest exposed formation and forms the cap of the higher topographic features. The Burro Canyon formation is underlain by the Jurassic Morrison formation.

The sedimentary beds of the mesa strike about N. 45° W. and dip about 3° SW. away from the Uncompahgre Plateau. The mesa is bounded on the northeast by a discontinuously faulted monocline that trends northwestward. There has been no faulting of the rocks of the mesa except for minor displacements caused by slumping along the rims.

The Morrison formation consists of two members, the Brushy Basin shale member above and the Salt Wash sandstone member below. The

Brushy Basin shale member and the overlying Burro Canyon formation crop out over about 80 percent of the area of Outlaw Mesa. The Brushy Basin member consists mostly of mudstone with some sandstone lenses interbedded with mudstone. The stratigraphy of the Morrison formation is discussed in detail by Craig and others (1951).

Most of the known carnotite deposits are in a number of sandstone lenses in the upper part of the Salt Wash sandstone member. These lenses, called the "main ore-bearing sandstone," range in thickness from a knife-edge to about 90 feet and have an average thickness of about 40 feet in the area drilled by the Geological Survey. The approximate outcrop of the base of the main ore-bearing sandstone is shown on figures 2, 3, and 4.

The ore-bearing sandstone is generally cross-bedded or massive, dominantly medium- to medium-fine grained, and mainly white, gray, or pale to dark reddish brown. The sandstone in the vicinity of ore deposits is mainly light brown, and speckled with small spots (1 to 2 mm in diameter) of limonite stain.

The sandstone contains some mudstone, which occurs as thin lenses and seams, as irregular lenses of mudstone-pebble conglomerate, and as fine-grained interstitial particles. The mudstone that lies above and below the ore-bearing sandstone, as well as the mudstone within the sandstone, is dominantly red. Field relations suggest that this was the original color of the mudstone. Near ore deposits, however, the mudstone within the ore-bearing sandstone and the few inches to few feet of mudstone in contact with the sandstone at its top and base are altered to gray. This alteration is most intense around ore

deposits; therefore, the thickness of the altered mudstone is useful as a guide to sandstone that might contain ore deposits.

Carbonaceous material is fairly common in the ore-bearing sandstone, especially in close association with the ore deposits. This material consists of fragments of fossil tree trunks and branches, reeds, leaves, finely divided particles, and masses of coaly material as much as several inches thick.

A general discussion of the geology and character of the carnotite deposits of southwestern Colorado and Utah is given by Fischer (1942).

Exploration and geological studies in the area between Gateway and Slick Rock, Colo., defined a narrow, elongate area in which the carnotite deposits in the Morrison formation have a closer spacing, larger size, and higher grade than those in adjoining areas. The existence and significance of this area were discussed by Fischer and Hilpert (1952) who applied the name "Uravan mineral belt". The Uravan mineral belt is about 2 miles wide on Outlaw Mesa and trends southeast across the mesa (fig. 3).

ORE DEPOSITS

The ore consists mainly of sandstone impregnated with uranium- and vanadium-bearing minerals. In addition, some of the carbonaceous material and some of the mudstone has been replaced or impregnated with ore minerals.

Carnotite-- $K_2(UO_2)_2(VO_4)_2 \cdot 3H_2O$ --is the principal uranium-bearing mineral. It occurs disseminated in the sandstone or as a replacement or filling of open spaces in carbonaceous material and mudstone.

The principal vanadium-bearing mineral is a clay and is incorrectly referred to as "roscoelite". It occurs as an aggregate of minute flakes

coating the sand grains and filling the interstices between the grains.

This mineral gives the sandstone a gray to dark-greenish-gray color, which darkens where the vanadium content increases.

Carbonaceous material is common in the ore deposits. Some of this material contains considerable amounts of uranium- and vanadium-bearing minerals, either as replacements or as coatings and fillings in open spaces.

The ore deposits occur in irregular tabular or lens-shaped masses. The tabular layers lie nearly parallel to the sandstone bedding, but they do not follow the bedding in detail. The thicker parts of the tabular layers may form podlike or elongate crescent-shaped masses, called, "rolls". These rolls cut across the bedding planes of the sandstone. They range from a few feet to 100 feet or more in length and from a few inches to 30 feet or more in thickness. Some deposits are made up of one or more rolls, which may be connected by thin, irregular tabular layers of mineralized rock. Some of these thin layers connecting the rolls are high grade, but most of them are too thin to be mined at a profit. In places layers of mineralized rock, too thin or too low in grade to be mined, extend outward a few feet to 100 feet or more from ore bodies. These thin or low-grade layers of mineralized rock increase the size of the drilling target and serve as a guide to ore bodies that may be present.

The deposits on Outlaw Mesa are noted for the abundance of fossil trees or "logs". Some of these logs have been richly mineralized. The known logs and rolls in the deposits on the mesa have a roughly uniform northeasterly trend. This trend is generally maintained by the long dimensions of the individual deposits, groups of deposits, and the thicker portions of the ore-bearing sandstone.

The ore deposits range in size from a few tons to over 64,000 tons. The dimensions of the deposits range from a few tens of feet in length and width to deposits about 900 feet long and about 250 feet wide.

The ratio of U_3O_8 to V_2O_5 in most deposits on the Colorado Plateau is about 1 to 9. The average grade of the ore produced from January 1949 through December 1951 from deposits on Outlaw Mesa was 0.38 percent U_3O_8 and 1.5 percent V_2O_5 , a ratio of about 1 to 4.

GUIDES TO ORE

The following geologic features on Outlaw Mesa are listed in the order of their usefulness as guides to ore and to sandstone that might contain ore deposits. These guides are modified slightly from those presented by Weir (1952). Most of these features are subtle and should be evaluated as a group in appraising the ground being prospected. No single feature is well enough defined to be used alone.

1. The upper few feet of mudstone beneath the ore-bearing sandstone and the mudstone pebbles and seams within the ore zone have been altered from red to gray in the vicinity of ore deposits, and the amount of altered mudstone generally decreases outward from the deposits.
2. The sandstone in the vicinity of deposits is dominantly light brown, with little or no reddish cast from the red mudstone in the sandstone.
3. In a single drill hole the thickness of ore-bearing sandstone is a useful guide. Ore deposits seem to be associated, in a general way, with the thicker portions of the sandstone. Geographically the deposits seem to be associated with areas where the thickness of the sandstone

lenses changes fairly rapidly in a few hundred feet. This change cannot be determined by a single drill hole, or even by several widely spaced holes, but is brought out by moderate- to close-spaced drilling.

4. The roughly parallel alinement of the long dimensions of the ore deposits with the long dimensions of the thicker portions of the sandstone is also a useful guide in prospecting.

5. Carbonaceous material is common in the ore-bearing sandstone. Although the carbonaceous material is erratically distributed, most of the ore deposits are in parts of the sandstone that contain fairly abundant carbonaceous material.

Using these criteria as guides, it is possible to evaluate the ground underlain by ore-bearing sandstone with information obtained from wide to moderate-spaced drilling alone.

GEOLOGICAL SURVEY EXPLORATION

The Geological Survey started exploration on Outlaw Mesa on January 20, 1949. Between that date and November 4, 1951, the Geological Survey drilled 1,302 holes, totaling 222,150 feet. This drilling was done during three periods under six separate drilling contracts. About 45 percent of the holes and about 65 percent of the total footage were drilled on public land. The remaining holes were drilled on private claims. These claims are located mostly along the margins of the mesa (fig. 2). They cover most of the area where the ore-bearing sandstone crops out or is close to the surface. The holes on these claims are less than 200 feet deep. The central part of the mesa, where the ore-bearing sandstone is more deeply buried, is mostly public land. The holes in this area average

about 320 feet in depth.

Of the 1,302 holes drilled, 387 cut mineralized rock (material containing 0.020 percent or more U_3O_8 or 0.10 percent or more V_2O_5). Of these 387 holes, 107 cut mineralized rock that is in the highest reserve class used in this report (material containing 0.10 percent or more U_3O_8 or 1.0 percent or more V_2O_5 and 1 foot or more thick).

Early drilling operations on Outlaw Mesa were hampered by deep snow and mud. The first drilling was done mostly in the accessible area back of the northern rim of the mesa, in and close to the area of the then known deposits. Exploration gradually extended into the untested ground on the mesa searching for favorable ground. A line of holes, 500 to 600 feet apart, was drilled along the road to Blue Creek on the east side of the mesa. Later, when weather and ground conditions permitted, lines of holes were drilled across the mesa from northeast to southwest. These lines of holes followed the lower parts of the drainage pattern in order to test the greatest area with a minimum of footage. The holes on these lines were about 600 feet apart. Areas of favorable ground were roughly defined by applying the criteria described on page 16 to ground tested by these lines of drill holes. Further drilling of moderately spaced holes, 200- to 400-foot centers, was confined to the areas of favorable ground. Whenever mineralized rock was cut by a diamond-drill hole, offset holes generally were drilled around the discovery hole at distances ranging from 50 to 100 feet. If mineralized rock was cut in any of the first group of offset holes, more holes were drilled until the deposit was roughly outlined. Offset drilling on private claims was discontinued when sufficient mineralized rock had been indicated to stimulate continued exploration and development by the owners.

RESERVES

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The terms "indicated" and "inferred" reserves are applied to the uranium- and vanadium-bearing material in the deposits that are known from exposures in natural outcrops, mine workings, or drill holes. These reserves are subdivided by thickness and grade cutoffs, and the method used in calculating them is explained below. Figures expressing the calculated tonnage and grade of the indicated and inferred reserves, for each reserve block, and for each grade cutoff, are given in table 5. The ground containing the reserve blocks and several geologic sections showing the position of the mineralized rock in the ground are shown on figures 2, 4, 5, 6, and 7.

In addition to the known deposits, other deposits are probably present which have not yet been found. These deposits are predicted solely on interpretation of geologic evidence, for there is no physical proof of their existence. The term "potential" reserves is applied to the material in these deposits. Potential reserves are described on page 25.

Although reserves are not classified in this report according to their availability for mining, consideration was given to the 1951 mining and milling practices in selecting the higher grade and thickness cutoffs. This was done to obtain figures for a category of reserves that would express as nearly as possible the tonnage and grade of the material that might actually be mined from these deposits under 1951 conditions. A summary of indicated and inferred reserves in this category, and in an additional lower-grade category, is given in table 1.

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Indicated and inferred reserves

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Definitions

Known reserves are classed as indicated and inferred. Owing to the erratic variations in thickness and grade of carnotite ore within short distances, and the general lack of abundant sample data for individual reserve blocks, the amount of reserves that can be calculated within a small limit of error, and thus can be classed as "measured", is so small as to be nearly negligible. Therefore, reserves that might be classed as measured are included with indicated reserves.

Indicated reserves / are those for which the grade is computed

/ The definitions used here for indicated and inferred reserves are abstracted from the definitions adopted by the Bureau of Mines and the Geological Survey in April 1943.

from drill-hole samples, exposures in mine workings and natural outcrops, gamma-ray logs, and production data, and for which the tonnage is computed by projection for a reasonable distance on geologic evidence from points of exposure (drill holes, mine workings, and natural outcrops). Inferred reserves are those for which quantitative estimates are based largely on broad knowledge of the geologic character of the deposits and for which there are few, if any, samples or measurements.

Because of the variations in thickness and grade of ore and the scarcity of sample data, the indicated reserves in any single reserve

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block might actually amount to as much as twice the calculated tonnage or as little as half the calculated tonnage. The limit of error of the total tonnage for several blocks, however, is apt to be considerably lower, perhaps not more than 25 percent of the calculated tonnage. For this reason indicated reserves are not computed for single holes in ore-grade material that have not been offset or cannot be connected with known deposits or mine workings. The limit of error in the tonnage figures for inferred reserves, of course, is apt to be higher than for the indicated reserves. The possible limit of error in the calculated or estimated grade for both indicated and inferred reserves probably is somewhat smaller than the possible limit of error in the tonnage figures.

Thickness cutoffs

Although mining practices vary from place to place in the region as well as with individual operators, under 1951 mining conditions most ore bodies of average grade are being mined to where they pinch to a layer about 1 foot thick. Layers of material less than 1 foot thick are mined in places if the grade is high. The tonnage of minable material less than 1 foot thick is small with respect to the total reserves and for that reason reserves less than 1 foot thick are not calculated.

Grade cutoffs

The deposits contain two metals of economic importance, uranium and vanadium. The oxides of these metals, U_3O_8 and V_2O_5 , occur in an

average ratio of about 1:4 as estimated from the assays of the Geological Survey drill core from Outlaw Mesa. Within the deposits, however, the two metals are so erratically distributed that a single sample, such as obtained from a drill hole, is not necessarily representative of the oxide ratio or the grade of the material near the point sampled. Knowing this by experience, the miner will drive toward a drill hole that shows a good value in vanadium, even though the uranium content of the sample might be negligible. Thus the material in the vicinity of this sample must be classed as a reserve, even though the sample shows a value for only one metal. Furthermore, with the 1951 price schedules --

-- Domestic uranium program Circular 5 revised, Part 60--Domestic Uranium Program, Atomic Energy Commission, Washington, D. C., February 26, 1951.

for ore, the vanadium content of the average grade of ore produced from Outlaw Mesa from January 1949 through December 1951--0.38 percent U_3O_8 and 1.5 percent V_2O_5 --constitutes about one-fifth of the total market value of the ore. Thus both metals must be considered in reserve appraisals and in selecting grade cutoffs.

Reserves 1 foot or more thick are classified by two grade cutoffs. The higher cutoff used--0.10 percent U_3O_8 or 1.0 percent V_2O_5 --corresponds to the Atomic Energy Commission purchase cutoff for uranium and the commonly used mill cutoff for vanadium. Reserves also are figured on a lower cutoff--0.05 percent U_3O_8 or 0.50 percent V_2O_5 --on the possibility that conditions in the future might demand or

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permit the mills to accept lower grade ore.

Calculation of tonnage

The method used for calculating the volume, and hence the tonnage, of a reserve unit 1 foot or more thick is based upon the premise that the reserve unit is a tabular mass. The average thickness of the drill hole samples that can be combined within the specified grade class is assumed to be the average thickness of the reserve unit.

By definition, the tonnage of indicated reserves "--is computed by projection for a reasonable distance on geologic evidence." In most places on Outlaw Mesa, indicated reserves are projected between drill holes and other sample points that are not more than 150 feet apart. In reserve block 19 (fig. 4) indicated reserves have been projected between holes over 200 feet apart because of geologic evidence and additional information from mining development. Indicated reserves are not projected more than 25 feet beyond sample points where the edge of the deposit has not been located or where correlation of data between sample points is lacking. Reserves are classed as inferred rather than indicated if the projection exceeds these lengths. Inferred reserves are projected to the assumed limits of the deposit, as determined by geologic evidence and interpretation.

A constant of 14 cubic feet per ton is used to calculate tonnage.

Calculation of grade

The average grade of the indicated reserves is calculated by weighting the assay values of all samples that qualify as reserves within the grade and thickness limits. As strict grade cutoffs are

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used, it is generally expected that the average grade assigned to the reserve blocks will be somewhat higher than the average grade of the ore that will eventually be mined from them, owing to the unavoidable dilution of the ore with waste and low-grade material during mining. On the other hand, the tonnage assigned to these blocks should be somewhat lower than the tonnage mined from them, owing to the increment of waste and low-grade material.

The grade assigned to the inferred reserves is nearly the same as that calculated for the indicated reserves in the same block, or nearby blocks.

Wherever a discrepancy was found between a uranium assay for a sampled interval and the percent of equivalent uranium, as shown on the gamma-ray log, an attempt was made to adjust this difference by using the average grade of the deposit, as based on other drill-core assays or production figures.

Reserve blocks

Masses or units of mineralized rock that constitute an indicated or inferred reserve, as defined by the thickness and grade cutoffs, are called reserve blocks. The geometric limits of reserve blocks are determined by the rules used in calculating reserves. (See above.) The exact positions of the blocks are not shown on figures 2, 4, and 5 though the carnotite-bearing ground that contains the blocks is designated by block numbers. Where mineralized layers overlap, even though they contain two or more masses of reserves, a single block number is assigned, and the total tonnage of these masses, as well as

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25

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their weighted average grade, is shown on table 5.

Some of the reserve blocks on Outlaw Mesa were previously designated by a letter symbol. The old and new designations for these reserve blocks are shown in the following table:

<u>Present block No.</u>	<u>Former block No.</u>	<u>Report</u>
13	B	Brasher and Jobin, March 1951
14	C	Brasher and Jobin, April 1951
19	D	Brasher and Jobin, April 1951
21	E and G	Brasher and Jobin, April 1951
22	F	Brasher, November 1951b
27	A, H, and L	Brasher, November 1951b and Trace, October 1950
29	I	Brasher, November 1951b
30	J, and part of I	Brasher, November 1951b
31	M	Brasher, November 1951b
32	K	Brasher, November 1951b
35	N	Brasher, November 1951b

Potential reserves

Potential reserves include the material in deposits that have not yet been found, but which are predicted solely on geologic evidence. For Outlaw Mesa about 80,000 tons of potential reserves, in material 1 foot or more thick and containing 0.10 percent or more U_3O_8 or 1.0 percent or more V_2O_5 are predicted. These reserves have an estimated average grade of about 0.35 percent U_3O_8 and 1.5 percent V_2O_5 . About 25,000 tons of these reserves are predicted to be in the part of favorable ground in the northern part of section 18 between drill holes 310 and 520 (figs. 2, 3, and 5). The east-central part

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of the area of favorable ground lying between block 37 and blocks 27 and 35 (fig. 5) was not tested because of the rough terrain. On the basis of the projection of the favorable ground through this untested area, it is predicted that it contains 30,000 tons of reserves. The remaining 25,000 tons of reserves are predicted to be equally divided between the other untested parts of ground within the four northern favorable areas.

PLANS AND RECOMMENDATIONS

No additional diamond drilling by the Geological Survey is planned on Outlaw Mesa.

Prospecting by additional drilling around some of the Geological Survey drill holes that cut weakly mineralized rock may discover new deposits. Close-spaced drilling by claim operators or lessees of public land is recommended around the margins of the deposits found by Geological Survey drilling in the northern part of the mesa. This drilling should find possible extensions of these deposits and aid in mining development. Further drilling to aid mining development should be done in and around the margins of deposits partly outlined by Geological Survey drilling on public land in sec. 18, T. 50 N., R. 17 W. Further drilling is recommended in the favorable area between holes 310 and 520, particularly around hole 625 (fig. 5), which is within the boundary of Government lease No. AT-(49-1)-526. Some of the ground along the margins of the mesa where the ore-bearing sandstone is close to the surface can be tested more economically by use of jackhammers or wagon drills.

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Geological Survey exploration 1949-51. Assays by the Geological Survey 1949-51, except as noted. Samples in sandstone unless otherwise noted.

Rock units containing less than 0.020% U_3O_8 , less than 0.020% equivalent U_3O_8 , and less than 0.10% V_2O_5 , as determined by assay of drill core, are considered to be barren. Barren holes and rock units are omitted from this table.

Assay data listed under "block" (i.e. Block 1) are within the blocks of calculated reserves.

Assay data listed under "other holes" are within the areas from which no reserves are calculated because the samples recovered are too thin or too weakly mineralized to qualify for the selected grade and thickness cutoffs.

Gamma-ray data obtained by probing drill holes with radiometric logging unit. Radioactivity expressed as percent equivalent U_3O_8 and as gamma-ray intensity. Values less than 0.020% eU_3O_8 are omitted from this table. Abbreviations used for gamma-ray intensity are listed below.

W Weak; concentrations of radioactive material in which the equivalent U_3O_8 content ranges from 0.020% to 0.099%.

S Strong; concentrations of radioactive material in which the equivalent U_3O_8 content ranges from 0.10% to 0.99%.

VS Very strong; concentrations of radioactive material in which the equivalent U_3O_8 content is 1.0% or more.

Most collar elevations obtained by transit and stadia survey; others by less accurate methods, shown with asterisk (*).

<Less than

>Greater than

e Equivalent

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29
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 1, Snowshoe claim										
174 (6,875)	71.10	73.42	2.32	0.032	0.12	5.0	Not probed			
545 (6,882)	60.68	63.00	2.32	<0.020	0.13	1.9				
	63.00	65.40	2.40	<0.020	0.13	0.6				
	65.90	66.40	0.50	<0.020	0.13	3.3				
	66.65	67.15	0.50	<0.020	0.14	1.4				
779 (6,876)	63.05	64.05	1.00	<0.020	1.91	1.7	W	72.0	73.7	1.7
	77.66	78.41	0.75	0.037	0.26	5.1				
Block 2, Mineral Channel No. 1 claim										
175 (6,871)	82.17	82.66	0.49	<0.037	0.18	7.2	Not probed			
	82.66	83.38	0.72	<0.14	0.43	9.4				
	83.38	83.88	0.50	<0.022	0.15	16.7				
544 (6,863)	69.35	70.95	1.60	<0.020	0.18	7.4				
547 (6,864)	91.45	92.95	1.50	<0.020	0.10	3.9	0.023	86.2	87.8	1.6
	92.95	94.45	1.50	<0.020	0.17	5.1	0.052	87.8	89.0	1.2

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 2, Mineral Channel No. 1 claim--Continued										
547--Continued (6,864)	94.45	95.95	1.50	0.051	0.18	7.8				
	95.95	96.28	0.33	0.11	0.65	4.5	0.036	90.3	91.5	1.2
	96.28	98.08	1.80	0.036	0.22	11.7	0.037	91.5	94.0	2.5
							0.14	94.0	95.5	1.5
							0.094	95.5	96.4	0.9
Block 3, Mineral Channel No. 9 and Mineral Channel No. 11 claims										
791 (6,922)	68.20	69.20	1.00	0.24	2.57	0.3	VS	67.4	68.2	0.8
	69.20	69.70	0.50	< 0.020	0.45	0.3				
794 (6,926)	68.30	68.50	0.20	< 0.020e	1.04	0.3				
	69.00	69.20	0.20	< 0.020e	1.85	0.4				
Block 4, Snowshoe claim										
27 (6,853)	32.20	32.50	0.30	< 0.020	0.10	3.0	0.16	30.7	31.5	0.8
	32.50	33.50	1.00	< 0.020	0.26	0.2	0.024	31.5	33.0	1.5
58 (6,848)	a/									
62 (6,859)	41.70	44.83	3.13	< 0.020	0.25	0.1	0.071	39.8	41.7	1.9
	44.83	46.17	1.34	0.038	0.19	0.1	0.63	41.7	43.0	1.3

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU ₃ O ₈	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 4, Snowshoe claim--Continued										
62--Continued (6,859)	46.17	46.80	0.63 ^{b/}	0.13	0.47	0.1	0.55	43.0	43.9	0.9
	46.80	47.51	0.71 ^{b/}	0.068	<0.10	3.1	0.80	43.9	45.2	1.3
							0.026	45.2	63.0	17.8
737 (6,860)	47.60	48.10	0.50	0.028	0.28	6.9	S	45.3	46.4	1.1
							W	46.4	47.2	0.8
741 (6,868)	49.10	51.00	1.90 ^{c/}	0.026	<0.10	0.8	W	46.3	47.3	1.0
	51.00	52.80	1.80	0.094	0.25	1.6	S	47.3	48.0	0.7
	52.80	53.50	0.70	0.074	0.25	3.7	W	48.0	49.7	1.7
							S	49.7	55.5	5.8
	55.69	56.30	0.61	0.025	0.11	3.3				
	56.30	57.20	0.90	0.13	0.55	0.2				
	57.20	57.80	0.60	0.17	1.26	0.1				
	57.80	59.50	1.70	0.19	0.70	0.1				
	59.50	60.00	0.50	0.034	0.51	0.1				
765 (6,866)	46.40	47.20	0.80	0.053	0.15	1.8	S	45.9	48.1	2.2
	47.20	48.20	1.00	<0.020	0.10	1.7				
	50.00	51.15	1.15	<0.020	0.14	1.7				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{c/} Sample in mudstone.

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 4, Snowshoe claim--Continued										
780 (6,872)	60.50	61.05	0.55	0.070	0.22	5.3	W	56.8	57.6	0.8
	61.05	62.05	1.00	0.13	0.30	2.4	S	57.6	61.0	3.4
	62.05	63.80	1.75	0.077	0.22	5.2				
781 (6,871)	62.00	62.25	0.25	<0.020e	0.14	Undet.	S	59.2	60.0	0.8
	62.70	63.30	0.60	0.19	2.05	0.2				
	63.30	63.55	0.25	0.044	0.25	5.8				
789 (6,871)	58.47	60.00	1.53 _a /	0.020	0.11	8.8	W	55.2	56.4	1.2
	67.50	67.80	0.30	0.14	0.83	5.9	S	64.4	65.3	0.9
	67.80	68.05	0.25	0.058	0.39	3.0				
790 (6,857)	50.00	50.80	0.80 _a /	<0.020	0.12	2.8	S	50.5	51.1	0.6
Block 5, Snowshoe claim										
29 (6,819)	40.00	40.10	0.10	<0.020	1.22	0.2				
	40.45	40.80	0.35	0.032	<0.10	0.1				
65 (6,817)*	_a /						0.020	39.4	40.7	1.3

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 5, Snowshoe claim--Continued										
66 (6,814)	39.20	39.80	0.60	0.020	0.56	0.1				
115 (6,810)	39.30	39.65	0.35	<0.020	0.31	0.4	1.7	40.0	41.2	1.2
	39.65	39.95	0.30	<0.020	1.06	0.4				
	39.95	40.75	0.80	0.71	3.32	0.2				
	40.75	41.33	0.58	0.045	1.02	0.9				
	41.33	41.70	0.37	<0.020	1.53	0.6				
Block 6, Snowshoe and Mineral Channel No. 3 claims										
30 (6,804)	50.93	51.29	0.36	<0.020	0.12	3.3	0.035	49.4	50.3	0.9
	51.29	53.90	2.61	0.033	<0.10	6.5				
	53.90	54.90	1.00 ^{b/}	0.079	0.15	12.8				
	54.90	55.33	0.43	<0.020	0.12	11.8				
67 (6,810)	42.50	42.80	0.30 ^{b/}	0.53	<0.10	0.1	6.3	39.7	40.5	0.8
	42.80	43.20	0.40	0.068	0.39	<0.1				
	43.20	43.80	0.60 ^{b/}	0.17	0.19	0.3				
	43.80	44.10	0.30	<0.020	0.11	1.3				
	44.10	44.45	0.35 ^{b/}	0.25	0.16	1.1				
69 (6,802)	42.50	43.60	1.10 ^{b/}	0.30	0.86	0.2	0.023	32.7	41.1	8.4
	43.60	44.50	0.90 ^{b/}	0.86	1.97	0.1				
	44.50	46.00	1.50	0.049	0.16	1.7				
							0.094	41.1	42.4	1.3
							0.28	42.4	43.6	1.2

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 6, Snowshoe and Mineral Channel No. 3 claims--Continued										
726 (6,797)	38.73	39.50	0.77	<0.020e	0.11	Undet.	VS	47.0	47.9	0.9
	39.50	40.50	1.00	0.18	1.06	7.0				
	40.50	41.50	1.00	0.023	<0.10	10.8				
728 (6,797)	39.00	40.80	1.80	<0.020e	0.35	0.2				
Block 7, July and Mineral Channel No. 5 claims										
766 (6,770)	36.00	36.30	0.30	0.038	5.47	0.3	S	34.9	35.7	0.8
	36.30	37.30	1.00	<0.020e	0.42	0.1				
	37.30	37.60	0.30	0.094	6.13	0.3				
Block 8, July, Mineral Channel No. 3, and Mineral Channel No. 5 claims										
32 (6,773)	44.98	45.80	0.82	0.11	0.60	0.6	0.078	43.2	44.0	0.8
549 (6,776)	46.00	46.40	0.40	<0.020	0.68	0.2	0.046	44.1	45.1	1.0
552 (6,768)	40.62	41.20	0.58	<0.020	0.42	0.5	6.5	40.6	41.5	0.9
	41.20	41.50	0.30	1.10	3.95	0.4	0.065	41.5	43.0	1.5
	41.50	41.80	0.30	1.70	3.66	0.3	0.23	43.0	44.3	1.3
	41.80	42.10	0.30	0.10	0.71	0.2	0.065	44.3	46.8	2.5
	45.15	46.70	1.55	<0.020	0.26	2.5				
	46.70	47.25	0.55	0.11	0.16	0.5				
	47.25	47.80	0.55	0.038	0.13	8.1				
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35

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 8, July, Mineral Channel No. 3, and Mineral Channel No. 5 claims--Continued										
556 (6,776)	51.40	52.30	0.90	<0.020	1.02	0.1	0.025	50.6	51.6	1.0
	52.30	52.80	0.50	<0.020	0.93	0.1				
590 (6,777)	44.60	45.95	1.35	0.042	0.75	0.2	0.30	43.0	44.1	1.1
	45.95	46.20	0.25	0.16	0.81	0.2	0.053	44.1	44.4	0.3
	46.20	46.70	0.50	0.032	0.24	0.1	0.45	44.4	45.1	0.6
	46.70	46.95	0.25	0.11	0.41	0.1	0.15	45.1	46.3	1.2
	46.95	47.20	0.25	0.088	0.29	0.1				
	47.20	47.70	0.50	<0.020	0.16	2.5				
591 (6,787)	64.20	64.40	0.20	0.069	1.44	2.5				
594 (6,764)	44.24	45.04	0.80	0.047	0.68	1.4	0.26	43.9	44.8	0.9
	45.04	45.29	0.25	0.083	0.45	2.5				
	45.29	45.94	0.65	0.11	0.71	1.6				
597 (6,761)	39.50	39.70	0.20	<0.020	1.40	0.2	0.049	42.2	43.4	1.2
	44.20	44.70	0.50	0.12	1.73	0.3				
598 (6,770)	50.00	50.25	0.25	0.046	1.39	0.1	0.026	44.4	46.6	2.2
	50.25	50.56	0.31	0.37	2.43	0.1	0.71	46.6	47.4	0.8
	50.56	50.70	0.14	0.15	0.48	0.1	0.028	49.0	50.2	1.2
732 (6,781)	42.10	42.30	0.20	<0.020e	1.18	0.1				

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 9, July and Wedge claims										
35 (6,728)	40.70	41.80	1.10	Core taken by AEC for gas sample						
	41.80	43.50	1.70 ^{b/}	0.34	0.51	9.8	0.56	41.1	42.5	1.4
	53.90	54.40	0.50 ^{b/}	0.16	4.11	3.6	0.59	54.5	55.2	0.7
	54.40	54.90	0.50 ^{b/}	0.020	<0.10	1.4				
60 (6,732)	55.40	55.70	0.30	<0.020	0.58	8.8				
Block 10, June claim										
556 (6,740)	100.30	100.60	0.30	<0.020	1.26	8.9	0.022	99.7	100.8	1.1
	100.60	103.78	3.18 ^{c/}	<0.020	0.50	3.3				
607 (6,742)	99.50	101.00	1.50	<0.020	1.44	1.8				
608 (6,737)	100.00	101.50	1.50	<0.020	1.60	3.3	0.028	102.7	104.0	1.3
1295 (6,730)*	^{a/}						0.027	91.9	93.1	1.2

^{a/} No mineralized samples, or sample deficient, probably because of incomplete core recovery.

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{c/} Sample in mudstone.

CONFIDENTIAL
SECURITY INFORMATION

37

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 11, June claim										
562 (6,710)	40.45	40.70	0.25	<0.020	0.16	0.2	0.70	39.3	40.0	0.7
	40.70	41.00	0.30	0.72	1.78	0.4	0.026	40.0	43.0	3.0
	41.00	41.30	0.30	<0.020	0.16	4.3	0.089	43.0	44.1	1.1
	43.25	44.60	1.35	0.026	0.25	1.1				
	44.60	44.90	0.30	0.080	2.33	0.1				
	44.90	45.95	1.05	0.026	0.21	2.6				
600 (6,716)	48.20	48.95	0.75	<0.020	0.45	0.5	Not probed			
	48.95	49.20	0.25	0.061	0.52	0.6				
	49.20	49.70	0.50	0.70	4.45	0.2				
	49.70	50.45	0.75	1.25	3.01	0.4				
	50.45	50.95	0.50	1.83	4.39	0.6				
	50.95	51.20	0.25	1.31	2.90	0.4				
	51.20	51.70	0.50	1.17	1.26	0.4				
	51.70	51.95	0.25	1.13	0.92	0.3				
	51.95	52.20	0.25	0.13	1.20	0.3				
	52.20	52.30	0.10	0.047	0.56	1.3				
	53.05	53.30	0.25	<0.020	0.37	0.8				
	77.90	79.65	1.75 ^{c/}	<0.020	0.11	10.7				

^{c/} Sample in mudstone

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SECURITY INFORMATION

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38
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 12, June claim										
567 (6,749)	57.10	58.65	1.55	< 0.020	0.20	0.3	0.45	57.7	58.5	0.8
	58.65	58.90	0.25	< 0.020	0.65	0.3				
	58.90	59.20	0.30	0.31	2.05	0.2				
615 (6,742)	55.00	55.25	0.25	0.20	1.31	1.6	4.7	45.6	46.4	0.8
	55.25	55.50	0.25	0.67	2.51	0.1				
	55.50	55.80	0.30	0.48	1.19	0.2				
	57.35	57.60	0.25	0.14	0.26	2.5				
	57.60	58.35	0.75	< 0.020	0.16	4.6				
Block 13, Mineral Channel No. 10 and Mineral Channel No. 12 claims										
807 (6,793)	64.73	64.98	0.25	0.022	0.15	1.3	VS	65.0	65.7	0.7
	64.98	65.20	0.22	0.067	0.20	3.6				
	65.20	65.95	0.75	0.13	0.78	0.8				
	65.95	66.40	0.45	< 0.020	1.18	0.7				
823 (6,797)	70.00	71.00	1.00	< 0.020	0.18	5.0				
826 (6,794)	59.00	60.00	1.00	0.12	0.33	0.3	S	57.5	60.2	2.7
	60.00	61.20	1.20	0.075	0.50	0.2				
		65.91	67.01	1.10	< 0.020e	0.61	26.1	W	64.8	65.4

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39
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 13, Mineral Channel No. 10 and Mineral Channel No. 12 claims--Continued										
827 (6,790)	66.16	66.50	0.34	<0.020e	0.28	1.0	W	65.5	67.3	1.8
	66.50	67.80	1.30	<0.020	0.34	4.7				
	68.05	68.65	0.60	<0.020e	0.39	17.8				
831 (6,794)	62.70	64.70	2.00	<0.020	0.70	0.2	S	61.8	62.8	1.0
							W	62.8	63.7	0.9
832 (6,796)	58.00	59.05	1.05	0.043	0.18	2.4	W	57.7	59.8	2.1
	59.05	60.00	0.95	0.14	0.36	1.0	S	59.8	60.6	0.8
	60.00	63.30	3.30	0.31	1.55	0.6				
	63.30	64.55	1.25 ^{c/}	0.043	0.54	12.9	S	61.2	61.7	0.5
	64.55	66.01	1.46	<0.020	0.15	20.0				
839 (6,796)	54.14	54.90	0.76	0.036	0.22	0.4	W	51.8	52.8	1.0
	54.90	55.80	0.90	0.088	0.30	<0.1	S	52.8	55.5	2.7
	55.80	57.10	1.30	0.068	0.28	0.1	VS	55.5	56.2	0.7
	57.10	58.50	1.40	0.19	1.10	0.2				
	58.50	60.00	1.50	<0.020	0.28	0.1				
841 (6,789)	56.00	56.40	0.40	<0.020	0.60	0.3	W	54.3	55.6	1.3

^{c/} Sample in mudstone.

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40

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU ₃ O ₈	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 13, Mineral Channel No. 10 and Mineral Channel No. 12 claims--Continued										
842 (6,794)	59.30	63.43	4.13	0.020	0.39	6.6	S	58.9	59.7	0.8
	63.93	64.50	0.57	<0.020	0.45	14.8	S	62.9	63.7	0.8
	64.50	65.10	0.60	0.048	1.91	4.9				
843 (6,802)	60.68	63.40	2.72	<0.020	0.39	0.1	S	59.2	60.1	0.9
	63.40	65.50	2.10	0.22	0.56	0.3	W	60.1	64.3	4.2
	65.50	68.50	3.00	<0.020	0.17	<0.1	S	64.3	65.2	0.9
	68.50	69.00	0.50	<0.020e	0.14	Undet.				
849 (6,792)	51.00	51.25	0.25	<0.020	0.20	2.9	W	52.7	54.2	1.5
							S	54.2	55.2	1.0
							VS	57.2	57.7	0.5
							W	57.7	58.6	0.9
							S	58.6	59.1	0.5
Block 14, Mineral Channel No. 12 claim										
822 (6,778)	60.50	61.00	0.50	<0.020e	0.42	0.2	VS	61.7	62.5	0.8
	61.00	62.00	1.00	0.87	2.15	0.7				
851 (6,779)	57.85	58.35	0.50	0.030	0.82	0.2	S	58.5	59.7	1.2
	58.47	59.10	0.63	0.023	0.44	1.5				

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41
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 14, Mineral Channel No. 12 claim--Continued										
851--Continued (6,779)	59.10	60.00	0.90 ^{c/}	0.17	1.38	0.1				
	60.00	60.80	0.80	0.24	1.83	<0.1				
852 (6,779)	59.10	60.00	0.90	0.022	<0.10	2.8	S	59.2	60.1	0.9
	60.00	61.10	1.10	0.098	0.31	0.5	W	60.1	60.6	0.5
	61.10	62.20	1.10	0.12	0.56	<0.1	S	60.6	61.8	1.2
	62.20	62.70	0.50	0.095	0.62	<0.1				
853 (6,782)	59.85	60.98	1.13	0.031	0.36	0.2	S	59.3	60.1	0.8
	61.23	62.48	1.25	0.025	0.21	2.0	W	60.1	61.7	1.6
	88.10	88.80	0.70	0.15	1.25	0.2				
	88.80	89.05	0.25	0.062	0.20	0.1				
	89.05	89.80	0.75	0.020	0.26	0.6				
854 (6,773)	58.20	58.60	0.40	0.28	2.82	<0.1	S	56.9	57.7	0.6
	58.60	59.40	0.80	0.042	0.13	0.4	W	60.2	62.1	1.9
	62.90	64.00	1.10	0.036	<0.10	4.6				
869 (6,778)	56.20	56.90	0.70	0.068	1.06	0.2	S	55.2	55.8	0.6
	89.50	90.80	1.30	0.22	1.92	6.2	S	88.2	89.3	1.1

^{c/} Sample in mudstone.

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42
Table 4.—Assay data, Outlaw Mesa, Mesa County, Colorado

Assay data							Gamma-ray data			
Hole No. and collar elev. (feet)	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 14, Mineral Channel No. 12 claim--Continued										
870 (6,785)	55.30	57.20	1.90	<0.020	0.39	<0.1	VS	58.5	59.0	0.5
	57.20	58.80	1.60	0.45	0.90	<0.1	S	59.0	60.1	1.1
	58.80	60.40	1.60	0.12	0.94	<0.1	W	60.1	61.6	1.5
	60.40	60.90	0.50	0.31	0.56	<0.1	VS	61.6	62.1	0.5
	60.90	62.20	1.30	0.22	0.40	<0.1	W	62.1	63.4	1.3
	62.20	65.00	2.80	0.31	0.90	3.9	VS	63.4	64.6	1.2
	65.00	66.60	1.60	0.21	0.90	0.6	W	64.6	66.2	1.6
	66.60	68.10	1.50	0.19	0.65	0.8	S	66.2	66.7	0.5
877 (6,790)	65.33	65.58	0.25	<0.020	0.26	<0.1				
	65.83	66.08	0.25	<0.020e	0.16	Undet.				
880 (6,781)	65.30	66.30	1.00	<0.020e	0.22	<0.1	S	66.9	67.5	0.6
	66.30	67.30	1.00	<0.020	0.12	<0.1				
	67.30	68.40	1.10	0.059	0.97	<0.1				
	68.40	69.20	0.80	0.12	0.72	0.1				
	69.20	70.30	1.10	<0.020	0.32	<0.1				
	70.30	70.70	0.40	<0.020e	1.52	<0.1				
	70.70	72.70	2.00	<0.020	0.18	0.4				
Block 15, Mesa No. 5 claim										
1187 (6,783)	99.00	99.40	0.40	0.042	0.14	6.3	>0.10d/	98.6	99.6	1.0
	99.40	100.90	1.50	0.45	1.54	0.3				
	100.90	101.80	0.90	0.14	0.50	<0.1				
	101.80	102.80	1.00	0.039	0.21	<0.1				

d/ Hole caved, reading incomplete.

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43

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 15, Mesa No. 5 claim--Continued										
1244 (6,793)	107.40	107.80	0.40	0.026e	0.11	Undet.	0.18	107.1	108.2	1.1
	107.80	108.50	0.70	0.086	0.58	<0.1				
	108.50	108.80	0.30	0.024e	<0.10	Undet.				
1247 (6,749)	90.30	90.60	0.30	0.062	1.77	<0.1	0.027	88.3	89.2	0.9
Block 16, Mesa No. 5 claim										
1149 (6,756)	76.70	77.00	0.30	0.047	0.43	Undet.	0.23	75.9	78.1	2.2
	77.00	78.50	1.50	0.16	0.50	0.1				
	78.50	78.90	0.40	0.24	0.86	0.3				
	78.90	79.10	0.20	0.023e	0.28	Undet.				
1190 (6,748)	70.80	71.30	0.50	<0.020e	2.25	6.2	Not probed			
	71.30	72.10	0.80	0.038	0.18	1.7				
	72.10	73.60	1.50	0.048	0.18	1.0				
1262 (6,755)	78.80	79.30	0.50	0.027e	0.16	Undet.	0.023	74.8	78.1	3.3
	79.30	80.05	0.75	0.041	0.17	2.4	0.059	78.1	79.5	1.4
	80.05	80.60	0.55	0.032e	0.33	Undet.	0.12	79.5	82.1	2.6
	80.70	81.60	0.90	0.057	0.27	0.7	0.21	82.6	83.2	0.6
	81.60	83.10	1.50	0.072	0.57	<0.1	0.46	83.2	84.5	1.3
	83.10	83.90	0.80	0.051	0.48	0.1	0.33	84.5	85.4	0.9
	83.90	84.70	0.80	0.17	0.53	<0.1	0.51	85.4	86.5	1.1

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44

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 16, Mesa No. 5 claim--Continued										
1262--Continued (6,755)	84.70	84.95	0.25	0.58	1.02	0.4	0.12	86.5	87.0	0.5
	84.95	85.50	0.55	0.081	1.16	<0.1	0.60	87.0	87.8	0.8
	85.50	86.60	1.10	0.11	0.42	0.1	0.077	87.8	89.8	2.0
	86.60	87.70	1.10	0.19	1.39	0.9	0.19	89.8	91.3	1.5
	87.70	88.50	0.80	0.11	0.85	0.1	0.32	91.3	93.0	1.7
	88.50	88.75	0.25	0.027e	0.71	6.2	0.13	93.0	94.1	1.1
	88.75	89.25	0.50	<0.020e	1.01	6.7				
	89.25	89.90	0.65	0.035	0.88	2.8				
	89.90	90.50	0.60	0.028e	0.22	Undet.				
	90.50	92.50	2.00	0.082	1.87	<0.1				
	92.50	92.75	0.25	0.30	1.01	0.1				
	92.75	93.75	1.00	0.14	1.16	<0.1				
	93.75	94.80	1.05	0.052	0.35	<0.1				
	94.80	95.15	0.35	0.040	0.33	<0.1				
1266 (6,744)	67.80	68.00	0.20	0.067	0.46	0.2	0.065	65.4	66.4	1.0
	68.00	68.75	0.75	0.032	0.36	7.3	0.032	66.4	67.0	0.6
							0.24	67.0	67.8	0.8
	73.70	74.70	1.00	<0.020e	0.21	Undet.				
	74.70	76.45	1.75	0.12	0.87	0.5	0.079	74.4	75.9	1.5
	76.45	77.35	0.90	0.027	0.53	3.3	0.042	75.9	76.5	0.6
	77.35	78.25	0.90	0.067	0.33	0.3	0.25	76.5	77.6	1.1
	78.25	79.20	0.95	0.024e	0.25	Undet.				
	79.20	79.70	0.50	<0.020e	0.23	Undet.				
	79.70	80.60	0.90	<0.020e	0.62	1.0				
	80.60	80.85	0.25	<0.020e	0.46	Undet.				
	80.85	82.30	1.45	<0.020e	0.29	Undet.				

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45
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 17, Mesa No. 5 claim										
1130 (6,720)	92.80	93.30	0.50	0.028e	0.29	Undet.	0.50	93.0	93.8	0.8
	93.30	94.10	0.80	0.15	1.09	0.1	0.27	93.8	95.0	1.2
	94.10	94.50	0.40	0.031e	0.33	Undet.	0.14	95.0	96.8	1.8
	94.50	95.25	0.75	0.11	0.88	0.1	0.15	96.8	97.4	0.6
	95.25	95.60	0.35	0.035	0.34	Undet.				
	95.60	96.35	0.75	0.054	0.21	4.8				
	96.35	97.10	0.75	0.17	0.29	5.4				
	97.10	97.35	0.25	0.065	0.20	7.8				
	97.35	97.90	0.55	0.032e	0.28	Undet.				
1174 (6,722)	99.00	99.30	0.30	<0.020e	0.50	3.9	0.30	98.7	99.5	0.8
	99.30	100.10	0.80 ^{c/}	0.094	1.09	0.2				
1179 (6,722)	89.40	89.65	0.25	0.13	0.57	<0.1	1.0	89.1	89.8	0.7
	89.65	89.90	0.25	1.11	2.32	1.5				
	89.90	90.10	0.20	0.037	0.38	<0.1				
1181 (6,721)	94.30	96.70	2.40	<0.020	0.22	5.0	0.035	95.6	96.6	1.0
1182 (6,725)	89.30	90.55	1.25	<0.020e	0.31	Undet.	0.40	90.7	91.4	0.7
	90.55	91.70	1.15	0.19	0.57	<0.1	0.50	91.4	92.4	1.0
	91.70	93.00	1.30	0.25	1.55	<0.1	0.44	92.4	93.4	1.0
	93.00	95.70	2.70	0.022e	0.33	Undet.	0.069	93.4	95.5	2.1

^{c/} Sample in mudstone.

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46
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 17, Mesa No. 5 claim--Continued										
1203 (6,724)	92.40	93.10	0.70	0.049	0.68	0.4	0.25	92.4	93.2	0.8
							0.022	93.2	95.0	1.8
	94.50	95.00	0.50	0.11	0.85	4.2	1.1	95.0	96.4	1.4
	95.00	95.25	0.25	0.78	3.81	<0.1				
	95.25	96.40	1.15	0.27	1.54	3.9	0.021	101.7	102.4	0.7
	96.40	97.10	0.70	0.026e	0.26	Undet.				
1273 (6,724)	95.90	96.10	0.20	<0.020e	2.55	<0.1	0.30	96.1	96.9	0.8
	96.10	96.60	0.50	0.29	0.19	<0.1	0.13	96.9	98.1	1.2
	96.60	96.90	0.30	0.03	0.34	<0.1	0.020	98.1	99.3	1.2
	96.90	97.50	0.60	0.05	0.53	<0.1				
	97.50	97.75	0.25	0.054	0.15	<0.1				
	97.75	98.05	0.30	<0.020e	0.25	0.1				
		98.40	98.65	0.25	0.027e	Undet.	Undet.			
Block 18, Mesa No. 5 claim										
1210 (6,706)	95.30	97.00	1.70	0.075	0.31	<0.1	0.12	95.1	96.2	1.1
	97.00	97.10	0.10	0.041	<0.10	<0.1	0.21	96.2	97.2	1.0
							0.023	97.2	98.5	1.3
	98.15	98.40	0.25	0.025e	<0.10	Undet.	0.027	98.5	99.9	1.4
1275 (6,704)	100.05	100.30	0.25	<0.020e	0.19	Undet.	0.65	100.3	101.1	0.8
	100.30	100.80	0.50	0.15	0.46	<0.1	0.17	101.1	101.5	0.4
	100.80	102.05	1.25	0.27	1.02	<0.1	0.71	101.5	102.2	0.7
	102.05	102.20	0.15	<0.020e	0.24	Undet.				

CONFIDENTIAL
SECURITY INFORMATION

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SECURITY INFORMATION

47

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/}										
145 (6,758)	92.00	95.63	3.63	0.037	0.26	0.8	Not probed			
	95.63	97.63	2.00	0.048	0.22	3.5				
	97.63	100.63	3.00g/	<0.020	0.10	4.6				
	100.63	103.07	2.44b/	0.23	0.60	1.2				
	103.07	103.84	0.77	<0.020	0.15	0.4				
	105.36	105.63	0.27	<0.020	0.15	0.1				
	105.63	105.88	0.25	0.022	0.36	0.2				
	105.88	106.42	0.54b/	0.11	0.75	1.0				
	106.42	107.57	1.15	0.026	0.43	0.1				
	107.57	108.03	0.46b/	0.10	0.31	1.1				
	108.03	108.89	0.86	0.021	0.17	0.1				
	108.89	109.64	0.75	0.039	0.23	0.5				
149 (6,730)	80.95	83.80	2.85	0.021	0.15	0.3	0.032	79.8	80.7	0.9
	83.80	84.70	0.90	0.072	<0.10	0.2				
	84.70	85.33	0.63	0.074	0.22	0.1	0.12	82.8	86.0	3.2
	85.33	86.81	1.48b/	0.08	0.22	1.2	0.092	86.0	87.9	1.9
	86.81	87.53	0.72	0.037	0.27	0.1	0.76	87.9	88.9	1.0
	87.53	89.70	2.17	0.10	0.26	1.4	0.27	88.9	89.7	0.8
	89.70	90.55	0.85b/	0.21	0.38	1.2	1.5	89.7	91.5	1.8
	90.55	90.91	0.36b/	0.62	0.24	2.0				
	90.91	91.22	0.31b/	0.27	0.16	2.2	0.033	102.5	104.8	2.3

b/ Assayed by American Smelting and Refining Co., Grand Junction, Colo.

f/ Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

g/ Sludge sample.

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} --Continued										
149--Continued (6,730)	91.22	92.20	0.98	0.049	0.20	3.7				
	92.20	92.71	0.51 ^{b/}	0.16	0.14	5.1				
	92.71	93.05	0.34 ^{b/}	0.33	0.25	7.0				
	93.05	93.50	0.45 ^{b/}	0.10	0.12	4.6				
	93.50	94.05	0.55	0.020	0.65	0.3				
	101.00	101.35	0.35 ^{b/}	0.020	<0.10	Undet.				
	107.10	107.70	0.60	<0.020	0.22	2.6				
154 (6,716)	129.80	130.37	0.57	0.028	0.49	0.1	Not probed			
	130.37	131.80	1.43 ^{b/}	0.55	1.46	Undet.				
	131.80	132.98	1.18	<0.020	0.19	0.1				
	132.98	133.23	0.25 ^{b/}	0.030	0.21	Undet.				
	133.23	133.53	0.30 ^{b/}	0.37	1.75	Undet.				
	133.53	133.98	0.45 ^{b/}	2.28	3.57	Undet.				
	133.98	134.48	0.50 ^{b/}	0.67	2.19	Undet.				
	134.48	135.83	1.35	0.17	0.45	Undet.				
157 (6,732)	80.37	81.68	1.31	<0.020	0.14	0.6	Not probed			
	83.35	84.30	0.95	<0.020	0.14	0.9				
	84.30	84.55	0.25	0.044	0.78	0.2				
	84.55	85.40	0.85 ^{b/}	0.30	1.44	Undet.				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} ---Continued										
157--Continued (6,732)	85.40	85.67	0.27 ^{b/}	0.75	1.60	Undet.				
	85.67	86.80	1.13 ^{b/}	0.20	0.47	Undet.				
	86.80	88.07	1.27 ^{b/}	1.05	1.98	Undet.				
	88.07	89.40	1.33 ^{b/}	0.14	2.08	Undet.				
	89.40	91.15	1.75	0.020	1.11	0.1				
	91.15	92.20	1.05 ^{b/}	0.27	3.10	Undet.				
	92.20	93.75	1.55 ^{b/}	1.13	3.39	Undet.				
	93.75	94.42	0.67 ^{b/}	1.48	2.90	Undet.				
	94.42	95.58	1.16 ^{b/}	0.74	2.42	Undet.				
	95.58	96.73	1.15 ^{b/}	0.53	1.81	Undet.				
	96.73	97.28	0.55 ^{b/}	1.04	2.75	Undet.				
	97.28	97.80	0.52 ^{b/}	2.47	2.42	Undet.				
	97.80	98.40	0.60 ^{b/}	0.82	2.07	Undet.				
	98.40	100.34	1.94 ^{b/}	0.20	0.81	Undet.				
	100.34	101.60	1.26 ^{b/}	0.89	1.68	Undet.				
	101.60	103.37	1.77 ^{b/}	0.22	0.53	Undet.				
	103.37	105.10	1.73 ^{b/}	0.18	0.51	Undet.				
	105.10	106.70	1.60	< 0.020	0.31	1.1				
	116.05	116.30	0.25	< 0.020	0.18	0.5				
180 (6,727)	80.12	81.83	1.71	0.053	0.41	0.1	Not probed			
	89.68	90.01	0.33	< 0.020	0.17	1.7				
	90.01	90.66	0.65 ^{b/}	0.16	1.08	0.2				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} —Continued										
180—Continued (6,727)	90.66	90.90	0.24	<0.020	0.23	0.7				
	91.15	91.50	0.35	<0.020	0.24	3.3				
	98.45	98.93	0.48 ^{b/}	0.045	0.16	2.8				
182 (6,720)	137.16	137.96	0.80	0.12	0.68	0.1	0.77	116.7	117.3	0.6
	137.96	138.20	0.24	0.020	0.59	0.1				
184 (6,721)	89.13	89.83	0.70	<0.020	0.16	3.8	Not probed			
	89.83	90.30	0.47	0.035	0.23	0.8				
	90.30	91.55	1.25 ^{b/}	0.17	1.03	2.7				
	91.55	94.58	3.03	<0.020	0.66	0.5				
	95.50	95.80	0.30 ^{b/}	0.11	0.78	0.2				
	95.80	96.10	0.30 ^{b/}	<0.020	0.32	1.5				
	111.76	112.06	0.30	<0.020	0.49	0.2				
	112.06	112.31	0.25	0.069	1.22	0.1				
	112.31	114.33	2.02 ^{b/}	0.60	1.82	0.2				
	114.33	117.78	3.45 ^{b/}	0.18	0.94	0.2				
	117.78	118.08	0.30 ^{b/}	0.52	1.04	0.2				
	118.08	120.90	2.82 ^{b/}	0.17	0.90	0.4				
	120.90	121.18	0.28	0.021	0.56	1.2				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

51

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)	
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To		
Block 19, Mesa No. 5 claim and public land ^{f/} --Continued											
188 (6,744)	85.40	86.83	1.43	0.038	0.40	1.7	Not probed				
	86.83	87.31	0.48	0.19	0.20	0.1					
	87.31	88.99	1.68	0.74	0.58	0.3					
	95.38	95.62	0.24	<0.020	0.42	3.6					
	95.62	96.07	0.45	0.027	3.70	0.1					
	96.07	96.57	0.50	0.041	0.67	0.1					
	96.57	101.50	4.93	<0.020	0.17	0.5					
	101.50	102.09	0.59	<0.020	0.75	0.1					
	102.09	104.40	2.31	0.031	0.38	0.1					
	94.56	95.06	0.50	<0.020	0.10	4.9		Not probed			
	95.13	97.23	2.10	<0.020	0.16	0.1					
	97.23	98.10	0.87	0.079	1.36	0.1					
	98.10	100.84	2.74 ^{b/}	0.11	0.43	0.1					
100.84	103.64	2.80	0.087	0.58	1.9						
103.64	106.90	3.26	0.073	0.46	0.1						
106.90	107.40	0.50 ^{b/}	0.088	1.35	0.1						
107.40	107.64	0.24 ^{b/}	0.27	1.31	<0.1						
107.64	109.64	2.00	0.034	1.61	<0.1						
109.64	110.13	0.49	<0.020	0.55	1.5						
110.37	110.60	0.23	<0.020	0.61	2.3						

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

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CONFIDENTIAL
SECURITY INFORMATION

52

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} —Continued										
192—Continued (6,759)	110.83	111.16	0.33	<0.020	0.25	3.4				
	111.34	111.58	0.24	<0.020	0.22	4.2				
	112.07	113.77	1.70	<0.020	0.24	2.5				
193 (6,736)	123.35	123.91	0.56	<0.020	0.47	1.2	Not probed			
194 (6,714)	130.10	130.40	0.30	0.031	2.40	0.1	Not probed			
	130.40	131.60	1.20 ^{b/}	0.12	0.25	3.3				
	131.60	135.13	3.53	0.023	0.41	9.1				
197 (6,763)	104.20	104.84	0.64	0.048	0.18	0.1	Not probed			
	104.84	106.30	1.46	0.031	0.39	0.1				
	106.30	109.20	2.90	<0.020	0.15	0.8				
199 (6,772)	91.91	92.39	0.48	<0.020	0.13	0.3	Not probed			
	93.85	94.83	0.98	<0.020	0.30	0.3				
	95.10	96.60	1.50	<0.020	0.18	0.4				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

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SECURITY INFORMATION

CONFIDENTIAL
SECURITY INFORMATION

53

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	CaCO_3		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} —Continued										
203 (6,745)	101.97	104.93	2.96	0.11	0.49	0.1	Not probed			
	104.93	105.42	0.49 ^{b/}	0.17	0.73	0.1				
	105.42	105.91	0.49 ^{b/}	0.67	2.12	0.1				
	105.91	108.41	2.50 ^{b/}	0.11	0.74	0.7				
	108.41	109.15	0.74	0.027	0.17	5.1				
205 (6,734)	100.20	100.40	0.20	<0.020	0.38	0.1	Not probed			
	100.40	100.66	0.26	0.045	3.03	0.1				
	100.66	102.37	1.71 ^{b/}	0.34	2.52	0.7				
	102.37	105.20	2.83 ^{b/}	0.24	0.80	1.8				
	105.20	108.19	2.99 ^{b/}	0.17	0.34	0.3				
	108.19	110.20	2.01	0.027	0.25	0.7				
	110.20	112.15	1.95	0.028	0.28	4.0				
	115.67	116.24	0.57	<0.020	0.20	0.7				
206 (6,763)	119.80	121.80	2.00	<0.020	0.17	1.9	0.10	117.3	118.2	0.9
	121.80	122.50	0.70	<0.020	0.12	4.7	0.22	120.5	121.6	1.1

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

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SECURITY INFORMATION

54

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} ---Continued										
207 (6,720)	85.13	85.43	0.30	<0.020	0.13	4.4	Not probed			
	86.22	87.72	1.50	0.037	0.24	2.3				
	111.78	112.40	0.62	0.084	1.08	0.1				
	112.40	113.60	1.20	<0.020	0.45	0.1				
	113.60	114.20	0.60	0.16	0.42	0.2				
	114.20	114.80	0.60	0.42	1.55	0.2				
	114.80	115.70	0.90	1.00	2.31	0.3				
	115.70	115.95	0.25	1.53	2.41	0.4				
	115.95	116.44	0.49	0.98	1.48	0.3				
	116.44	118.24	1.80	1.24	1.45	0.3				
	118.24	118.75	0.51	0.076	0.52	0.3				
	118.75	119.75	1.00	0.026	0.19	3.6				
	120.60	121.25	0.65	<0.020	0.12	2.7				
	209 (6,743)	84.02	84.70	0.68	<0.020	0.20		0.7	Not probed	
84.70		85.61	0.91	0.13	0.32	0.8				
85.61		86.52	0.91	0.071	0.29	0.1				
86.52		87.93	1.41	0.15	0.64	0.1				
87.93		88.50	0.57	0.088	0.27	0.1				
88.50		89.40	0.90	0.10	0.34	0.1				
89.40		90.82	1.42	0.050	0.24	0.1				
90.82		91.40	0.58	<0.020	0.32	0.1				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

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SECURITY INFORMATION

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SECURITY INFORMATION

55

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data					
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)		
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To			
Block 19, Mesa No. 5 claim and public land ^{f/} --Continued												
212 (6,713)	102.08	104.80	2.72	0.032	0.19	0.1	Not probed					
	128.47	129.00	0.53	0.05	1.31	0.5						
	129.00	129.28	0.28	0.11	0.86	0.3						
	129.28	129.80	0.52	1.16	3.52	0.3						
	129.80	130.05	0.25	<0.020	0.30	0.1						
	130.05	132.40	2.35	<0.020	0.20	0.1						
	132.40	133.38	0.98	<0.020	0.21	0.1						
	134.53	134.90	0.37	<0.020	0.39	2.5						
	134.90	136.71	1.81	0.59	1.70	2.2						
	136.71	139.30	2.59	0.11	0.99	3.2						
	139.30	140.30	1.00	<0.020	0.42	3.9						
	215 (6,723)	95.20	95.70	0.50	0.047	0.27		1.3	Not probed			
		95.70	96.85	1.15	0.27	1.88		0.2				
96.85		97.20	0.35	0.83	1.79	0.2						
97.20		97.55	0.35	1.54	3.86	0.2						
97.55		98.60	1.05	0.28	2.71	0.1						
98.60		100.20	1.60	<0.020	0.24	0.1						
119.35		120.20	0.85	0.12	2.43	0.1						
120.20		121.05	0.85	0.19	1.80	0.1						
121.05		121.35	0.30	0.42	0.19	0.1						
121.35		122.75	1.40	0.12	0.69	0.1						
122.75		124.00	1.25	0.71	1.06	0.1						
124.00		124.30	0.30	0.023	0.37	0.1						

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

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SECURITY INFORMATION

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SECURITY INFORMATION

56

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} --Continued										
442 (6,735)	79.40	80.40	1.00	0.041	0.20	0.3	Not probed			
	81.90	83.10	1.20	<0.020	0.45	0.1				
447 (6,706)	90.20	90.90	0.70	<0.020	1.62	0.2	Not probed			
1152 (6,772)	83.20	83.60	0.40	<0.020e	0.12	Undet.				
1154 (6,751)	89.20	89.70	0.50	0.023e	0.26	Undet.	0.34	88.5	89.6	1.1
	89.70	94.50	4.80	0.12	0.44	0.2	0.17	89.6	89.9	0.3
	94.50	100.00	5.50	<0.020e	0.15	Undet.	0.25	89.9	91.3	1.4
							0.048	91.3	92.2	0.9
							0.12	92.2	93.9	1.7
							0.047	93.9	96.2	2.3
							0.17	96.2	96.8	0.6
							0.15	99.6	100.5	0.9
							0.12	100.5	101.5	1.0
							0.066	101.5	102.3	0.8

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

OFFICIAL USE ONLY

CONFIDENTIAL
SECURITY INFORMATION

57

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} —Continued										
1156 (6,749)	85.30	85.55	0.25	0.034e	0.33	Undet.	Not probed			
	85.55	86.30	0.75	0.22	1.03	<0.1				
	86.30	86.60	0.30	0.46	1.78	<0.1				
	86.60	87.90	1.30	1.02	0.37	<0.1				
	87.90	88.60	0.70	0.43	1.02	<0.1				
	88.60	89.10	0.50	0.083	0.95	<0.1				
	89.10	89.35	0.25	0.30	1.22	<0.1				
	89.35	89.50	0.15	0.031e	1.28	<0.1				
	91.20	92.40	1.20	0.20	1.23	<0.1				
	92.40	94.30	1.90	0.26	1.02	<0.1				
	94.30	94.95	0.65	0.18	0.40	<0.1				
	94.95	96.30	1.35	0.13	0.78	<0.1				
	96.30	96.60	0.30	0.054	1.09	<0.1				
	96.60	97.20	0.60	0.027e	0.26	Undet.				
	97.20	99.45	2.25	<0.020e	0.14	Undet.				
	99.45	100.65	1.20	<0.020e	0.13	Undet.				
	100.65	101.65	1.00	<0.020e	0.19	Undet.				
	101.65	102.60	0.95	<0.020e	0.18	Undet.				
1163 (6,735)	75.60	75.85	0.25	<0.020e	0.40	Undet.	2.7	74.8	75.5	0.7
	75.85	76.40	0.55	0.43	1.73	0.2				
	76.40	76.60	0.20	0.027e	0.24	Undet.	0.39	93.5	94.5	1.0

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

OFFICIAL USE ONLY

CONFIDENTIAL
SECURITY INFORMATION

58

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} --Continued										
1163--Continued (6,735)	92.70	93.50	0.80	<0.020e	0.19	Undet.				
	94.10	95.10	1.00	0.11	0.82	0.5				
	154.60	155.10	0.50	0.087	<0.10	1.7				
	155.10	155.80	0.70	0.033e	<0.10	Undet.				
	155.80	156.40	0.60	0.35	0.33	4.3				
	156.40	158.60	2.20	0.032e	0.21	Undet.				
	158.60	159.85	1.25	0.030e	Undet.	Undet.				
	159.85	160.10	0.25	0.025e	Undet.	Undet.				
1165 (6,726)	134.50	135.25	0.75	0.037	0.19	8.7	Not probed			
	146.25	146.50	0.25	0.071	0.18	0.3				
1170 (6,734)	87.90	88.30	0.40	0.073	0.38	0.3	0.061	86.9	87.4	0.5
							1.1	87.4	88.2	0.8
	152.80	154.05	1.25	0.047	0.16	4.3				
	154.05	157.30	3.25	0.028e	0.12	Undet.	0.049	150.2	152.2	2.0
							0.071	152.2	154.2	2.0
							0.034	154.2	157.4	3.2
						0.027	157.4	158.1	0.7	

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

OFFICIAL USE ONLY

CONFIDENTIAL
SECURITY INFORMATION

59

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 19, Mesa No. 5 claim and public land ^{f/} --Continued										
1184 (6,755)	50.70	51.70	1.00	0.038	0.11	9.4	Not probed			
	51.95	52.20	0.25	0.020e	0.14	Undet.				
	98.60	99.40	0.80	0.13	0.80	<0.1				
1198 (6,751)	94.30	96.20	1.90	<0.020e	0.17	Undet.	0.31	94.3	95.1	0.8
	96.20	98.50	2.30	<0.020e	0.12	Undet.				
							0.095 0.047	102.1 103.1 103.8	103.1 103.8	1.0 0.7
1255 (6,747)	101.90	102.20	0.30	<0.020e	0.14	Undet.				
1257 (6,756)	98.10	99.35	1.25	<0.020e	0.49	Undet.	0.33	100.3	101.0	0.7
	99.35	100.60	1.25	<0.020e	0.23	Undet.				
	100.60	101.00	0.40	0.14	0.70	0.4	0.069	103.0	104.2	1.2
	102.20	102.95	0.75	<0.020e	0.31	Undet.	0.10	105.6	106.5	0.9
	102.95	103.45	0.50	0.032e	0.32	Undet.				
	103.45	103.60	0.15	<0.020e	0.25	Undet.				
	103.60	104.60	1.00	0.034	0.26	5.4				
	104.60	104.85	0.25	0.023e	0.23	Undet.				
	104.85	105.60	0.75	<0.020e	0.24	Undet.				
	105.60	106.30	0.70	0.048	0.32	0.1				
	106.30	107.05	0.75	0.031e	0.32	Undet.				
	107.05	107.20	0.15	0.020e	0.27	Undet.				

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^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 20, Ronnie No. 2 claim and public land ^{f/}										
269 (6,700)	125.35	125.60	0.25	<0.020	0.22	0.3	Not probed			
	125.60	125.85	0.25	0.030	0.56	0.1				
	125.85	126.30	0.45	0.090	0.32	0.1				
	129.05	129.35	0.30	<0.020	0.28	0.1				
	129.35	130.42	1.07	<0.020	0.27	0.2				
287 (6,700)	127.47	128.20	0.73	<0.020	0.10	0.1	Not probed			
	128.50	129.70	1.20	<0.020	0.15	0.1				
	129.70	129.90	0.20	0.048	0.11	0.1				
	129.90	130.90	1.00	0.065	0.35	2.9				
500 (6,704)	129.80	132.05	2.25	<0.020	0.11	1.5	Not probed			
	132.05	133.30	1.25	0.047	0.31	1.7				
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/}										
141 (6,693)	84.90	85.80	0.90 ^{c/}	<0.020	0.16	0.4				
148 (6,715)	133.50	134.10	0.60	0.033	0.59	0.1	Not probed			

^{c/} Sample in mudstone.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} —Continued										
156 (6,696)	142.15	142.98	0.83	<0.020	0.46	0.1	0.038	141.0	141.8	0.8
	142.98	143.26	0.28 ^{b/}	0.21	0.31	Undet.	0.090	141.8	142.6	0.8
	143.26	143.77	0.51	<0.020	0.22	0.1				
159 (6,678)	143.09	144.11	1.02 ^{b/}	<0.020	0.23	3.4	Not probed			
	146.69	147.93	1.24	0.049	0.47	1.7				
195 (6,719)	124.40	126.50	2.10	0.028	0.34	0.4	Not probed			
	126.50	127.00	0.50 ^{b/}	0.25	0.90	0.4				
	127.00	127.20	0.20	0.083	0.57	0.2				
	127.20	127.90	0.70	0.021	0.34	1.7				
196 (6,714)	114.70	115.75	1.05	0.056	0.48	0.1	Not probed			
	115.75	116.72	0.97 ^{b/}	0.22	1.54	0.1				
	116.72	117.20	0.48	<0.020	0.75	0.1				
	121.86	122.59	0.73	0.051	0.66	0.1				
	122.59	123.26	0.67 ^{b/}	0.12	0.93	0.1				
	123.26	124.00	0.74	<0.020	0.24	2.5				
200 (6,711)	118.15	119.50	1.35	0.033	0.18	0.4	Not probed			
	119.50	120.50	1.00	0.08	1.04	0.4				
	120.50	120.75	0.25	<0.020	0.15	0.1				
	126.20	127.55	1.35	0.036	0.29	3.2				

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^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

62

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public landf/--Continued										
200--Continued (6,711)	128.70	130.20	1.50	<0.020	0.55	1.0				
	133.30	133.60	0.30	<0.020	0.20	6.4				
202 (6,694)	139.70	141.20	1.50	<0.020	1.63	0.1	Not probed			
216 (6,704)	105.75	106.00	0.25	<0.020	0.20	0.2	Not probed			
	106.00	106.50	0.50	0.11	1.18	0.2				
	123.10	124.50	1.40	0.022	0.67	0.1				
	126.00	126.60	0.60	<0.020	0.89	0.1				
	126.60	127.20	0.60	0.049	0.24	0.1				
	127.20	129.27	2.07	0.14	0.40	0.1				
	129.27	129.60	0.33	<0.020	0.22	0.4				
	129.60	130.70	1.10	<0.020	0.19	0.2				
	130.70	132.15	1.45	<0.020	0.52	2.3				
	132.15	132.69	0.54	0.14	0.57	0.1				
	132.69	133.20	0.51	<0.020	0.86	0.1				
	133.20	134.45	1.25	0.23	0.47	0.1				
	134.45	135.00	0.55	<0.020	0.56	0.2				
217 (6,718)	120.75	121.08	0.33	<0.020	0.13	2.6				
218 (6,692)	133.50	134.70	1.20	<0.020	0.61	0.2	0.035	133.5	134.4	0.9

f/ Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

63

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} —Continued										
220 (6,713)	105.70	106.30	0.60	<0.020	0.25	0.7	Not probed			
	106.30	106.80	0.50	0.084	1.04	0.1				
	106.80	107.80	1.00	0.047	0.29	0.2				
	108.10	108.35	0.25	<0.020	0.13	3.1				
	110.85	112.80	1.95	<0.020	0.17	1.5				
	112.80	115.30	2.50	0.033	0.29	3.5				
	115.30	115.80	0.50	0.066	0.44	0.5				
	115.80	116.30	0.50	0.11	0.69	0.1				
	116.30	116.80	0.50	0.088	0.71	0.1				
	116.80	119.12	2.32	0.18	1.30	0.1				
	119.12	119.52	0.40	0.75	3.60	0.2				
	119.52	119.70	0.18	0.16	0.22	0.1				
	119.70	120.30	0.60	0.11	0.94	0.1				
	120.30	121.30	1.00	0.082	0.98	0.1				
	121.30	123.00	1.70	0.17	1.45	0.1				
	123.00	124.00	1.00	0.19	0.42	0.1				
	124.00	125.50	1.50	0.040	0.27	0.7				
	125.50	126.00	0.50	0.34	0.19	1.3				
	126.00	127.90	1.90	0.17	1.31	0.1				
	127.90	129.80	1.90	0.27	0.88	0.1				
	129.80	130.80	1.00	0.053	0.19	0.1				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

64
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
222 (6,694)	132.00	132.25	0.25	0.66	0.96	0.3	Not probed			
	132.25	133.20	0.95	0.050	0.34	0.2				
223 (6,709)	104.50	106.85	2.35	0.023	0.32	6.4	Not probed			
	129.96	131.21	1.25	0.032	0.35	0.2				
226 (6,686)	129.80	130.05	0.25	0.070	0.96	0.4	3.0	128.4	129.1	0.7
	130.05	130.30	0.25	0.47	1.57	0.5				
	130.30	130.80	0.50	0.082	0.34	0.4				
	130.80	132.47	0.67	<0.020	0.15	0.7				
227 (6,682)	121.90	122.35	0.45	<0.020	0.51	0.1	Not probed			
	122.35	122.60	0.25	0.30	1.75	0.2				
228 (6,710)	95.30	95.60	0.30	0.020	0.13	1.9	Not probed			
	99.20	99.45	0.25	<0.020	0.13	3.1				
	99.70	100.20	0.50	0.028	0.17	1.7				
	101.15	102.20	1.05	0.030	0.19	0.6				
	102.20	102.60	0.40	0.092	0.71	0.9				
	102.60	103.45	0.85	0.31	0.88	0.8				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
228--Continued (6,710)	103.45	105.00	1.55	0.20	0.71	0.6	Not probed			
	105.00	105.30	0.30	0.076	0.20	1.4				
	106.10	107.85	1.75	0.023	0.13	5.4				
	108.37	110.70	2.33	<0.020	0.19	2.4				
231 (6,705)	110.00	111.00	1.00	<0.020	0.15	5.3				
	111.00	112.55	1.55	0.025	0.27	0.1				
	112.55	114.11	1.56	<0.020	0.42	0.1				
	114.11	114.65	0.54	<0.020	0.17	0.2				
	114.65	116.21	1.56	<0.020	0.17	0.1				
	116.21	117.94	1.73	<0.020	0.12	0.1				
	117.94	119.60	1.66	<0.020	0.34	0.9				
	129.30	129.80	0.50	0.10	0.93	0.2				
	129.80	130.35	0.55	0.40	0.87	0.1				
	130.35	130.95	0.60	0.078	1.40	0.1				
	130.95	132.60	1.65	<0.020	0.47	0.1				
232 (6,697)	137.30	138.20	0.90	0.043	2.56	0.2	Not probed			
	112.85	113.75	0.90	0.024	0.47	0.1				
	131.40	132.90	1.50	0.030	0.34	0.3				
	132.90	133.65	0.75	0.14	1.16	0.1				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
232--Continued (6,697)	133.65	134.40	0.75	<0.020	0.54	0.9				
234 (6,699)	165.45	165.70	0.25	<0.020	0.11	26.9	Not probed			
236 (6,701)	90.10	90.80	0.70 ^{c/}	<0.020	0.17	0.2	Not probed			
	90.80	91.10	0.30 ^{c/}	0.32	0.94	0.1				
	91.10	91.35	0.25	0.66	2.04	0.3				
	91.35	92.10	0.75	0.22	1.89	0.1				
	92.10	93.10	1.00	0.083	1.45	0.1				
237 (6,688)	101.50	101.75	0.25	0.020	0.35	0.5				
241 (6,693)	95.50	97.50	2.00	<0.020	0.13	0.3	Not probed			
	98.25	98.80	0.55	0.045	0.29	0.1				
	98.80	99.10	0.30	0.14	0.20	0.1				
	99.10	100.50	1.40	0.041	0.64	0.1				
	100.50	100.80	0.30	0.034	0.15	0.2				
	123.80	124.10	0.30	<0.020	0.34	0.5				
	124.40	125.50	1.10	0.16	0.64	0.2				
	125.50	126.35	0.85	0.18	0.77	0.2				

^{c/} Sample in mudstone.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
241--Continued (6,693)	126.35	126.50	0.15	< 0.020	0.51	0.1				
	126.50	127.40	0.90	0.022	0.24	0.1				
	127.40	127.70	0.30	0.027	0.10	4.3				
250 (6,687)	116.00	116.30	0.30	< 0.020	0.81	0.2				
	116.85	117.10	0.25	0.031	0.20	0.2				
275 (6,701)	119.75	120.00	0.25	< 0.020	1.43	0.3				
458 (6,685)	142.50	144.50	2.00	0.031	0.22	1.6	0.89	143.6	144.6	1.0
	144.50	145.25	0.75	0.66	2.35	0.1				
	145.25	145.50	0.25	0.026	1.08	0.1				
	145.50	146.35	0.85	< 0.020	0.18	9.5				
459 (6,674)	134.00	134.50	0.50	< 0.020	0.10	5.9	0.041	135.2	136.7	1.5
	135.80	137.07	1.27	< 0.020	0.25	1.4				
460 (6,685)	164.00	164.70	0.70	< 0.020	0.77	2.7	Not probed			
463 (6,676)	142.30	143.70	1.40	0.076	1.46	0.2	Not probed			
	156.00	156.40	0.40	< 0.020	0.51	0.2				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

68

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
466 (6,695)	174.10	174.50	0.40	<0.020	1.04	0.1	Not probed			
	176.40	176.90	0.50	<0.020	0.59	8.0				
470 (6,683)	168.70	169.30	0.60	<0.020	0.10	3.8	Not probed			
	194.60	195.60	1.00	<0.020	0.34	3.7				
	197.30	199.30	2.00	<0.020	0.56	2.2				
	199.30	200.30	1.00	0.095	0.60	7.2				
	200.30	201.05	0.75	0.22	0.75	12.5				
	201.05	201.30	0.25	0.095	0.39	13.9				
473 (6,680)	183.30	184.30	1.00	<0.020	0.82	1.5	Not probed			
478 (6,676)	184.00	186.42	2.42	<0.020	0.81	2.4	Not probed			
	186.42	186.90	0.48	0.34	0.62	4.0				
480 (6,682)	185.00	186.75	1.75	<0.020	0.13	3.5	Not probed			

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
481 (6,721)	127.00	127.50	0.50	0.028	0.51	0.1	0.94	126.6	127.4	0.8
	127.50	128.25	0.75	0.35	1.59	0.1				
	128.25	129.00	0.75	< 0.020	0.80	0.1				
	129.00	131.00	2.00	< 0.020	0.37	0.2				
505 (6,682)	123.19	124.50	1.31	0.022	0.68	0.1	Not probed			
	127.71	127.93	0.22	0.020	0.15	10.0				
506 (6,683)	126.40	127.15	0.75	0.037	1.69	0.1	Not probed			
	127.15	128.20	1.05	0.12	0.80	0.4				
	133.30	134.30	1.00	< 0.020	0.23	0.5				
507 (6,679)	130.10	133.60	3.50 ^{c/}	< 0.020	0.55	0.1	Not probed			
	133.60	134.10	0.50	1.00	8.20	0.4				
	134.10	134.35	0.25	3.50	7.16	0.5				
	134.35	134.60	0.25	0.40	1.08	0.1				
	134.60	135.60	1.00	< 0.020	0.33	0.1				
509 (6,677)	132.20	134.20	2.00	< 0.020	0.11	4.8				
526 (6,688)	184.65	186.60	1.95	< 0.020	0.10	3.6	Not probed			

c/ Sample in mudstone.

f/ Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

70

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^f /—Continued										
532 (6,697)	119.63	119.90	0.27	<0.020	0.16	17.7	0.049	15.0	16.2	1.2
536 (6,694)	179.09	179.70	0.61	<0.020	0.81	0.4	Not probed			
	179.70	180.10	0.40	0.034	1.80	0.3				
	180.10	182.54	2.44 ^c	0.024	0.65	0.3				
	182.54	184.46	1.92	0.020	0.10	1.8				
537 (6,700)	188.70	189.00	0.30	0.32	3.73	3.0	Not probed			
	189.00	189.30	0.30	<0.020	2.17	0.2				
	170.40	170.70	0.30	0.28	2.35	3.5				
	179.75	181.85	2.10	<0.020	0.52	9.5				
546 (6,679)	140.20	141.00	0.80	<0.020	0.60	0.1				
	141.00	141.80	0.80	<0.020	0.78	0.1				
554 (6,694)	145.00	145.40	0.40	<0.020	1.36	0.4	Not probed			
	147.90	148.30	0.40	<0.020	2.14	0.2				
565 (6,687)	93.80	94.40	0.60	<0.020	0.16	3.2	Not probed			
	94.40	95.10	0.70	0.065	0.25	0.2				

^c/ Sample in mudstone

^f/ Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} —Continued										
565--Continued (6,687)	95.10	95.35	0.25	0.59	0.99	0.3				
	95.35	95.85	0.50	0.44	2.85	0.1				
	95.85	96.20	0.35	0.28	2.43	0.1				
568 (6,708)	91.65	92.20	0.55	<0.020	0.68	0.1				
	98.70	99.00	0.30	<0.020	3.35	0.2				
569 (6,703)	118.42	119.72	1.30 ^{c/}	<0.020	0.10	0.2				
	121.02	122.32	1.30	<0.020	0.12	0.4				
575 (6,704)	166.30	166.90	0.60	0.15	1.46	0.7	Not probed			
	169.50	170.00	0.50	<0.020	0.29	1.0				
	170.00	171.75	1.75	0.030	0.72	0.1				
	171.75	173.50	1.75	0.048	0.31	0.4				
	173.50	173.75	0.25	0.26	1.44	0.2				
	173.75	174.00	0.25	0.19	0.18	0.3				
	174.00	174.20	0.20	0.030	0.26	0.4				
	174.20	177.00	2.80	0.032	0.13	1.5				
	177.00	178.00	1.00	0.026	0.16	0.8				
	178.00	178.40	0.40	0.030	0.10	0.7				
	178.40	178.65	0.25	0.021	0.13	0.7				

^{c/} Sample in mudstone.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data						
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)			
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To				
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued													
575--Continued (6,704)	181.60	181.85	0.25	0.15	0.67	0.3							
	181.85	182.00	0.15	0.11	0.50	0.3							
	182.00	182.50	0.50	<0.020	0.27	0.4							
	182.75	184.15	1.40	0.026	0.42	0.3							
579 (6,716)	173.17	173.42	0.25	<0.020	0.24	0.3	Not probed						
	173.67	174.92	1.25	<0.020	0.14	1.5							
	175.10	175.35	0.25	<0.020	0.52	0.8							
	175.35	175.60	0.25	0.51	5.34	0.3							
	175.60	175.70	0.10	0.072	0.79	1.0							
592 (6,716)	189.65	190.00	0.35	0.022	0.24	0.7							
	190.00	190.80	0.80	0.114	1.07	2.6							
	190.80	191.50	0.70	<0.020	0.45	0.3							
606 (6,673)	133.85	134.10	0.25	<0.020	0.21	3.2	0.66	133.3	134.3	1.0			
	134.10	134.35	0.25	0.047	1.49	0.2							
	134.35	134.60	0.25	0.65	1.06	0.2							
	134.60	135.10	0.50	0.12	0.52	0.1							
	135.10	135.60	0.50	<0.020	0.24	0.1							
	141.42	141.67	0.25	<0.020	0.17	0.1							
	141.67	141.92	0.25	0.080	0.37	0.1							

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

CONFIDENTIAL
SECURITY INFORMATION

73

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
606--Continued (6,673)	141.92	142.40	0.48	0.062	0.50	0.1				
	142.40	142.60	0.20	<0.020	1.07	0.1				
	144.20	144.60	0.40	<0.020	0.16	0.1				
1183 (6,725)	87.70	88.10	0.40	<0.020e	2.32	<0.1				
1211 (6,724)	109.20	110.00	0.80	<0.020e	0.26	Undet.	0.028	110.1	111.9	1.8
	114.10	114.40	0.30	<0.020e	0.26	Undet.	0.062	114.3	114.8	0.5
1214 (6,728)	88.00	88.50	0.50	<0.020e	0.19	Undet.				
1215 (6,725)	91.00	91.70	0.70	<0.020e	0.14	Undet.				
	102.20	103.10	0.90	<0.020e	1.30	1.1				
1219 (6,714)	84.90	85.40	0.50	<0.020e	0.78	<0.1	0.026	84.6	85.6	1.0
	96.80	97.55	0.75	0.032e	0.87	<0.1	5.6	91.7	92.5	0.8
	97.55	98.10	0.55	0.059	0.61	<0.1	0.21	92.5	94.2	1.7
	98.10	100.20	2.10	0.21	0.45	<0.1	0.17	94.2	95.2	1.0
	100.20	101.00	0.80	0.59	1.93	<0.1	0.080	95.2	97.3	2.1

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

OFFICIAL USE ONLY

74
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} —Continued										
1219--Continued (6,714)	101.00	101.55	0.55	0.25	1.04	<0.1	0.11	97.3	98.8	1.5
	101.55	101.80	0.25	<0.020e	0.26	Undet.	0.22	98.8	100.8	2.0
							1.6	100.8	102.1	1.3
	105.90	106.60	0.70	0.029e	0.27	Undet.	0.11	102.1	105.3	3.2
	106.60	109.80	3.20	0.17	0.83	<0.1	0.23	105.3	108.0	2.7
	109.80	110.45	0.65	0.060	0.50	<0.1	0.46	108.0	109.9	1.9
	110.45	111.30	0.85	0.025e	0.35	Undet.	0.065	109.9	111.7	1.8
1223 (6,721)	94.80	100.90	6.10	<0.020e	0.26	Undet.	0.84	101.1	102.0	0.9
	100.90	101.85	0.95	0.34	1.57	<0.1	0.099	102.0	102.9	0.9
	101.85	103.55	1.70	0.032e	1.51	<0.1	0.20	102.9	105.0	2.1
	103.55	105.05	1.50	0.12	0.71	<0.1				
	105.05	106.15	1.10	0.043	0.73	<0.1				
	106.15	107.10	0.95	<0.020e	0.98	<0.1				
	109.60	109.90	0.30	0.098	0.67	<0.1				
1228 (6,714)	84.80	85.10	0.30	<0.020e	0.12	Undet.	0.042	66.5	67.7	1.2
	86.80	87.70	0.90	<0.020e	0.28	Undet.	1.4	89.1	90.6	1.5
	87.70	88.90	1.20	<0.020e	0.40	Undet.	0.059	90.6	93.6	3.0
	88.90	89.25	0.35	<0.020e	0.73	<0.1	2.1	93.6	94.9	1.3
	89.25	89.85	0.60	0.15	1.18	<0.1	0.52	94.9	97.4	2.5
	89.85	90.45	0.60	0.41	0.91	<0.1	0.19	97.4	99.8	2.4
	90.45	91.55	1.10	0.66	1.60	<0.1	0.99	99.8	101.6	1.8

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} —Continued										
1228--Continued (6,714)	91.55	92.40	0.85	0.022e	1.63	<0.1	0.63	101.6	102.9	1.3
	92.40	93.85	1.45	<0.020e	0.50	<0.1	5.2	102.9	104.7	1.8
	93.85	94.35	0.50	<0.020	0.68	<0.1	0.52	104.7	106.5	1.8
	94.35	95.70	1.35	0.41	0.74	<0.1	0.3	106.5	108.1	1.6
	95.70	97.75	2.05	0.23	1.39	<0.1	1.0	108.1	110.1	2.0
	97.75	98.95	1.20	0.068	2.38	0.2	1.8	110.1	110.6	0.5
	98.95	100.60	1.65	0.092	2.03	0.3	1.1	110.6	111.8	1.2
	100.60	102.35	1.75	0.41	1.70	0.1	0.39	111.8	114.7	2.9
	102.35	103.60	1.25	0.22	1.32	<0.1	0.53	114.7	116.8	2.1
	103.60	105.10	1.50	1.02	1.89	0.1	0.26	116.8	117.7	0.9
	105.10	106.60	1.50	0.21	1.79	<0.1	0.31	117.7	119.6	1.9
	106.60	108.60	2.00	0.15	1.74	<0.1				
	108.60	111.10	2.50	0.23	1.06	0.2				
	111.10	112.35	1.25	0.54	1.67	<0.1				
	112.35	112.70	0.35	0.25	1.66	<0.1				
	112.70	114.10	1.40	0.16	0.42	0.8				
	114.10	115.10	1.00	0.30	1.53	<0.1				
	115.10	115.35	0.25	0.76	1.70	<0.1				
	115.35	116.50	1.15	0.25	1.59	<0.1				
	116.50	116.90	0.40	0.60	0.71	0.1				
	116.90	117.75	0.85	0.16	0.55	<0.1				
	117.75	119.05	1.30	0.065	0.72	<0.1				
	119.05	119.70	0.65	0.19	0.88	<0.1				
	119.70	120.45	0.75	0.16	0.25	0.1				
	120.45	120.95	0.50	0.051	0.12	0.1				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
1229 (6,720)	82.10	83.40	1.30	<0.020e	0.57	5.6				
1231 (6,717)	82.70	84.20	1.50 ^{b/}	<0.020e	0.14	Undet.	0.022	75.6	76.2	0.6
	112.30	113.50	1.20	<0.020e	0.19	Undet.	0.027	77.3	78.0	0.7
	114.90	116.20	1.30	<0.020e	0.37	Undet.				
1232 (6,714)	100.80	101.05	0.25	<0.020e	0.14	Undet.	0.12	101.3	102.4	1.1
	101.05	102.50	1.45	0.05	0.32	0.1	0.028	102.4	103.9	1.5
	102.50	103.50	1.00	0.023e	0.39	Undet.				
	103.50	104.30	0.80	0.033e	0.35	Undet.	0.039	117.6	118.8	1.2
	104.30	105.30	1.00	<0.020e	0.21	Undet.				
	105.30	106.20	0.90	<0.020e	0.19	Undet.				
	115.40	117.20	1.80	<0.020e	0.27	Undet.				
	117.20	119.40	2.20	<0.020e	0.80	0.1				
	119.40	120.90	1.50	<0.020e	0.39	Undet.				
1233 (6,723)	119.20	120.20	1.00	0.36	4.81	0.1	1.7	139.5	140.8	1.3
	120.20	121.00	0.80	0.37	1.51	0.1				
	121.00	122.00	1.00	<0.020e	0.38	Undet.				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

CONFIDENTIAL
SECURITY INFORMATION

77

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU ₃ O ₈	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} —Continued										
1236 (6,730)*	99.40	99.65	0.25	0.073	0.95	0.4	0.038	54.8	55.5	0.7
	99.65	100.00	0.35	<0.020e	0.42	Undet.	0.026	55.5	55.9	0.4
	100.00	100.75	0.75	<0.020e	0.35	Undet.				
	100.75	101.25	0.50	0.041	0.92	Undet.	0.085	99.4	100.2	0.8
	101.25	102.50	1.25	<0.020e	0.48	Undet.	0.033	100.2	101.8	1.6
	102.50	103.90	1.40	<0.020e	0.57	0.4				
							0.035	104.3	104.8	0.5
1238 (6,722)	92.10	92.50	0.40	<0.020e	2.49	<0.1	0.026	89.8	90.4	0.6
	105.20	106.30	1.10	0.33	2.60	<0.1	0.56	105.3	107.4	2.1
	106.30	106.80	0.50	0.53	2.12	<0.1	0.16	107.4	110.6	3.2
	106.80	108.10	1.30	0.14	0.79	<0.1				
	108.10	109.15	1.05	0.39	<0.10	Undet.	0.033	113.5	114.9	1.4
	109.15	109.70	0.55	0.032e	0.63	<0.1				
	109.70	110.20	0.50	0.055	0.41	<0.1				
	113.90	114.15	0.25	0.025e	Undet.	Undet.				
	114.15	114.85	0.70	0.029e	<0.10	Undet.				
1239 (6,710)	72.20	72.70	0.50	<0.020e	0.14	Undet.	0.020	59.3	60.2	0.9
	76.50	76.90	0.40	0.023e	0.48	Undet.	0.026	64.9	65.8	0.9
							0.022	69.9	71.0	1.1
							0.038	71.0	72.1	1.1
							0.026	72.1	72.8	0.7

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU_3O_8	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} —Continued										
1240 (6,704)	98.60	99.10	0.50	0.28	1.69	0.1	0.020	66.7	67.6	0.9
							0.33	98.1	98.8	0.7
							0.026 0.052	133.5 134.0	134.0 134.8	0.5 0.8
1241 (6,722)	90.00	91.10	1.10	<0.020 ^e	0.80	<0.1	0.025	90.0	90.8	0.8
	98.20	98.50	0.30	<0.020	1.78	<0.1	0.13 0.027	98.0 99.0	99.0 100.7	1.0 1.7
1300 (6,708)	93.90	94.15	0.25 ^{b/}	0.054	<0.10	0.2	Not probed			
	105.50	106.65	1.15	0.023 ^e	0.32	Undet.				
	106.65	107.90	1.25	0.058	0.49	0.2				
	118.20	118.80	0.60	0.085	0.87	0.5				
	120.40	120.90	0.50	0.025 ^e	Undet.	Undet.				
	120.90	121.30	0.40	0.058	0.36	0.4				
	121.30	121.55	0.25	0.028 ^e	0.52	0.7				
	121.55	122.30	0.75	0.86	3.04	0.2				
	122.30	122.40	0.10	0.22	2.09	<0.1				
	122.40	123.00	0.60	0.37	0.28	<0.1				
	123.00	123.40	0.40	0.25	3.14	<0.1				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 21, Ronnie No. 1 and Mesa No. 5 claims, and public land ^{f/} --Continued										
1300--Continued (6,708)	123.65	123.90	0.25	0.023e	Undet.	Undet.				
	126.10	126.85	0.75	0.029e	Undet.	Undet.				
	129.10	129.35	0.25	<0.020e	0.38	Undet.				
	129.35	131.00	1.65	0.12	0.81	0.2				
	131.00	131.75	0.75	0.11	0.72	0.1				
	131.75	132.00	0.25	1.13	3.94	0.1				
	132.00	132.30	0.30	0.24	0.79	0.1				
	132.55	132.80	0.25	0.058	0.22	3.0				
	132.80	133.05	0.25	0.022e	Undet.	Undet.				
Block 22, Ronnie No. 1 and Ronnie No. 2 claims										
257 (6,660)	149.35	149.75	0.40	<0.020	0.45	0.2				
	149.75	150.65	0.90	0.23	2.16	9.6				
	150.65	152.15	0.50	<0.020	0.13	6.2				
292 (6,664)	140.50	140.90	0.40	0.10	1.50	0.2	Not probed			
	140.90	142.40	1.50	<0.020	0.10	4.1				
303 (6,658)	151.00	152.00	1.00	0.11	0.80	7.3	Not probed			
	152.00	152.30	0.30	0.058	0.22	9.9				
	152.30	152.65	0.35	0.58	0.77	19.3				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 22, Ronnie No. 1 and Ronnie No. 2 claims--Continued										
303--Continued (6,658)	152.65	153.30	0.65	0.31	0.52	19.8				
	153.30	154.83	1.53	0.037	<0.10	1.7				
305 (6,662)	147.20	148.00	0.80	<0.020	0.27	0.2	Not probed			
	151.85	153.10	1.25	0.036	<0.10	4.4				
	161.25	162.25	1.00	<0.020	0.10	3.0				
489 (6,666)	139.00	139.50	0.50	<0.020	0.55	0.1	Not probed			
	139.50	140.80	1.30	<0.020	0.62	0.1				
	146.70	148.50	1.80	<0.020	0.18	2.6				
	148.50	149.20	0.70	0.29	1.10	1.4				
	149.20	149.50	0.30	<0.020	0.49	0.1				
	149.50	150.00	0.50	<0.020	0.39	2.1				
	150.00	150.60	0.60	0.10	1.18	0.7				
	150.60	151.00	0.40	0.068	0.40	2.0				
	151.00	151.25	0.25	0.041	1.06	2.2				
	151.25	151.50	0.25	0.28	1.48	0.5				
	151.50	151.75	0.25	0.26	0.62	0.7				

Block 23, Public land^{f/}

520 (6,846)	292.20	294.90	2.70	0.030	0.64	0.3	Not probed
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^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

81

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 23, Public land ^{f/}										
555 (6,843)	287.60	289.30	1.70	< 0.020	0.42	0.3	Not probed			
574 (6,864)	294.10	294.30	0.20	< 0.020	0.50	0.4	Not probed			
581 (6,840)	298.40	298.60	0.20	0.069	0.39	3.7	Not probed			
	298.60	298.80	0.20	0.080	0.13	2.8				
	298.80	299.00	0.20	1.39	1.88	0.3				
Block 24, Public land ^{f/}										
625 (6,866)	286.35	287.74	1.39	< 0.020	0.60	0.1	Not probed			
	287.74	289.50	1.76 ^{c/}	< 0.020	0.65	0.4				
	289.50	289.75	0.25	0.98	0.96	0.2				
	289.75	290.00	0.25	2.10	1.60	0.3				
	290.00	290.25	0.25	0.45	0.94	0.3				
	290.25	291.50	1.25	0.095	0.68	1.8				
	291.50	293.72	2.22 ^{c/}	0.026	0.26	7.8				
	293.72	295.97	2.25 ^{c/}	< 0.020	0.13	10.0				
	295.97	297.08	1.11 ^{c/}	0.41	0.60	2.6				

^{c/} Sample in mudstone.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 25, Public land										
1259 (6,820)*	276.35	276.85	0.50	0.026e	<0.10	Undet.				
1283 (6,820)*							0.020	255.5	256.3	0.8
Block 26, Public land ^{f/}										
310 (7,001)	339.50	339.75	0.25	0.025	<0.10	1.6	Not probed			
445 (6,989)	328.60	330.75	2.15	0.020	<0.10	1.9	Not probed			
	346.70	347.70	1.00	<0.020	0.13	5.1				
Block 27, Public land										
585 (6,898)	328.90	329.10	0.20	0.045	0.31	0.2	Not probed			
	334.52	334.82	0.30	0.023	0.10	2.8				
668 (6,745)	299.50	299.75	0.25	0.060	0.46	0.1	Not probed			
	299.75	300.00	0.25	2.56	9.15	1.2				
	300.00	300.30	0.30	1.79	9.77	0.7				
	301.10	301.30	0.20	0.48	3.82	0.9				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land--Continued										
805 (6,760)	313.50	314.25	0.75	<0.020	0.14	2.4				
814 (6,737)	288.75	289.50	0.75	0.023	0.45	3.1	VS	290.8	291.7	0.9
	289.50	290.00	0.50	0.19	0.87	0.5	W	291.8	300.5	8.7
	290.00	291.00	1.00	1.20	3.45	0.2				
	291.00	291.25	0.25	<0.020	0.49	0.1				
863 (6,805)	327.09	327.59	0.50 ^{b/}	0.066	0.31	1.1	W	197.8	198.3	0.5
	329.80	330.60	0.80	0.020	0.49	1.1	S	356.6	357.3	0.7
	357.00	357.75	0.75	<0.020 ^e	0.52	1.4	W	357.3	357.9	0.6
	357.75	358.86	1.11	0.18	0.87	5.0				
	358.86	360.30	1.44	0.048	0.37	6.9				
	360.30	360.85	0.55	0.022	0.14	8.0				
879 (6,891)	325.50	326.70	1.20	0.069	<0.10	1.2	S	325.0	327.0	2.0
884 (6,898)	356.53	356.90	0.37	<0.020	0.11	0.1	Not probed			
	356.90	357.30	0.40	0.12	0.72	0.2				
	357.30	357.80	0.50	0.020	0.28	0.6				
	364.00	365.50	1.50 ^{b/}	0.022	0.50	5.6				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 27, Public land--Continued:										
895 (6,808)	330.70	331.00	0.30	0.059	0.46	<0.1	Not probed			
	331.00	332.30	1.30	1.04	4.01	0.1				
	332.30	332.70	0.40	0.069	1.02	<0.1				
901 (6,812)	320.60	321.85	1.25	<0.020	0.34	3.4	0.22	337.3	338.3	1.0
	334.59	335.84	1.25 ^{c/}	<0.020	0.18	0.2	0.16	365.0	366.0	1.0
	335.84	336.40	0.56	0.13	0.36	0.9				
	336.40	337.30	0.90	0.062	0.56	0.4				
	338.30	338.40	0.10	<0.020 ^e	0.79	<0.1				
	363.30	364.10	0.80	0.12	0.81	2.1				
911 (6,803)	329.60	332.10	2.50	0.047	0.23	2.2	0.18	332.2	333.2	1.0
	332.10	333.70	1.60	0.13	1.39	0.2	0.40	333.2	333.9	0.7
	333.70	334.20	0.50	0.039	1.43	0.4				
	336.90	337.30	0.40	0.060	0.61	0.1	2.4	337.3	338.2	0.9
	337.30	338.70	1.40	0.44	3.30	0.2				
	338.70	339.40	0.70	<0.020	0.60	0.1				
920 (6,793)	301.77	302.02	0.25	<0.020 ^e	0.28	0.5	0.025	314.7	316.4	1.7
	313.10	314.60	1.50	0.031	0.32	0.4	0.029	320.7	321.6	0.9

^{c/} Sample in mudstone.

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 27, Public land--Continued										
920--Continued (6,793)	314.60	315.00	0.40	0.036	0.28	4.9				
	315.00	315.50	0.50	0.033	0.31	8.9				
	319.42	320.72	1.30	< 0.020	0.24	3.0				
	321.72	322.02	0.30	< 0.020	0.25	2.4				
921 (6,808)	350.00	350.50	0.50	< 0.020e	0.28	11.8				
926 (6,825)	370.00	372.00	2.00	1.07	3.18	0.3	2.7	365.5	367.9	2.4
	372.00	372.95	0.95	0.24	2.36	0.1	1.6	367.9	369.2	1.3
	372.95	373.50	0.55	0.031	1.90	< 0.1	0.70	369.2	371.0	1.8
928 (6,824)	333.40	334.12	0.72	< 0.020e	0.23	11.8	1.3	359.8	360.5	0.7
	344.60	345.89	1.29	< 0.020e	0.15	Undet.				
	345.89	347.10	1.21	0.068	0.16	0.1				
	347.10	348.10	1.00	0.26	1.59	0.2				
938 (6,830)	365.87	366.60	0.73	0.038	0.56	6.0	0.095	366.4	367.5	1.1
	366.60	367.40	0.80	0.058	1.19	1.7	0.34	367.5	368.4	0.9
	367.40	367.80	0.40	0.12	0.67	3.4	0.061	368.4	369.2	0.8
	368.05	368.65	0.60 ^{c/}	< 0.020	0.46	19.8	< 0.030 ^{d/}	369.2	369.9	0.7

c/ Sample in mudstone.

d/ Hole caved, reading incomplete.

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land--Continued										
940 (6,820)	374.84	375.60	0.76	0.032	0.49	6.3	5.3	376.1	376.7	0.6
	375.60	375.90	0.30	0.22	2.13	1.1				
	375.90	376.40	0.50	2.31	1.77	0.9				
	376.40	377.10	0.70 ^{c/}	< 0.020	0.19	2.4				
941 (6,837)	352.50	353.30	0.80 ^{c/}	0.044	0.43	0.2	0.025	337.7	338.5	0.8
	353.30	353.80	0.50	0.039	0.23	4.5	1.0	353.4	354.1	0.7
942 (6,820)	372.60	373.10	0.50	0.091	4.08	0.1	0.35	371.7	372.2	0.5
	373.10	373.60	0.50	< 0.020 ^e	0.62	< 0.1				
947 (6,780)	304.70	308.90	4.20	0.029	0.16	1.5	0.020	305.6	306.5	0.9
	308.90	309.40	0.50	0.099	0.38	1.2	0.024	306.5	308.4	1.9
	309.40	310.00	0.60	0.14	0.54	3.0	0.029	308.4	309.8	1.4
	310.00	314.25	4.25	0.061	0.20	3.4	0.12	309.8	311.4	1.6
	314.25	315.05	0.80	< 0.020 ^e	0.22	2.6	0.027	311.4	312.7	1.3
	315.05	316.30	1.25	0.079	0.46	4.5	0.057	312.7	314.5	1.8
949 (6,782)							0.13	315.8	316.9	1.1
							0.022	318.9	320.2	1.3
	326.20	328.20	2.00	< 0.020	0.27	0.1	0.032	327.4	328.4	1.0

^{c/} Sample in mudstone.

OFFICIAL USE ONLY

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land--Continued										
956 (6,832)	330.00	330.75	0.75 ^{c/}	0.030	<0.10	0.5	0.022	376.8	377.9	1.1
							0.14	377.9	378.7	0.8
	376.60	377.35	0.75	0.022	0.22	3.5				
	377.60	378.20	0.60	<0.020	0.34	6.2				
	378.45	379.25	0.80	0.040	0.36	5.4				
957 (6,849)	358.20	360.00	1.80	<0.020 ^e	0.16	1.8	0.12	360.2	361.6	1.4
	360.00	360.70	0.70	0.078	2.87	<0.1				
	360.70	363.20	2.50	<0.020	0.74	<0.1	0.57	364.4	365.3	0.9
	363.20	363.50	0.30	0.32	5.41	<0.1				
	363.50	364.00	0.50	0.13	1.41	<0.1				
	364.00	364.30	0.30	0.27	5.48	0.2				
	364.30	364.90	0.60	0.023	0.75	<0.1				
959 (6,824)	362.50	364.40	1.90	0.026	0.16	0.8	4.4	352.7	353.3	0.6
	367.80	368.80	1.00	0.041	0.36	11.7	0.032 2.4	357.7 358.2	358.2 359.0	0.5 0.8
962 (6,837)	339.80	340.70	0.9	0.024	0.40	7.2	0.053	326.6	327.3	0.7
	341.95	342.45	0.5 ^{c/}	<0.020	0.24	1.4	0.032	369.4	370.4	1.0

^{c/} Sample in mudstone.

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 27, Public land--Continued										
962--Continued (6,837)	364.40	366.40	2.00	< 0.020e	0.45	0.1				
	369.60	370.60	1.00c/	0.031	< 0.10	5.6				
968 (6,816)	a/						0.021	375.2	375.9	0.7
976 (6,774)	314.55	315.05	0.50	0.021	0.16	3.2	5.1	316.8	317.6	0.8
	315.20	315.50	0.30	0.038	0.76	0.1				
	315.50	316.80	1.30	0.66	3.01	< 0.1				
	316.80	317.55	0.75	0.026	0.42	< 0.1				
979 (6,782)	313.90	314.80	0.90	0.17	0.61	2.0	3.0	316.4	317.1	0.7
982 (6,881)	341.60	342.60	1.00	0.20	0.34	6.2	0.53	342.4	343.3	0.9
986 (6,861)	a/						0.033	323.4	324.3	0.9
							0.031	362.0	362.8	0.8
991 (6,825)	361.00	361.50	0.50	< 0.020	0.47	5.9	4.4	362.5	363.6	1.1
	361.50	362.80	1.30	1.07	3.11	1.5	0.30	363.6	364.6	1.0
	362.80	363.55	0.75	0.061	0.32	5.9	0.15	364.6	365.1	0.5

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land--Continued										
992 (6,817)	360.00	361.30	1.30	<0.020e	0.26	0.1				
	361.30	362.30	1.00	<0.020e	0.34	<0.1				
997 (6,882)	339.50	340.00	0.50	0.022	<0.10	6.0	0.022	325.9	326.9	1.0
							0.080	326.9	327.5	0.6
							0.020	335.8	336.6	0.8
							0.092	342.3	342.9	0.6
1003 (6,830)	363.50	364.00	0.50	0.043	<0.10	3.9	0.058	363.6	364.4	0.8
1004 (6,837)	326.70	328.00	1.30	<0.020e	0.10	Undet.	0.028	310.9	312.1	1.2
	328.00	328.70	0.70c/	0.12	0.71	0.1				
	328.70	329.90	1.20	0.055	0.27	4.1	0.29	327.8	328.9	1.1
	329.90	330.60	0.70	0.047	0.41	0.1	0.075	328.9	329.7	0.8
	330.60	332.80	2.20	0.41	2.34	0.1	0.14	329.7	331.6	1.9
	332.80	333.55	0.75	<0.020	0.13	1.3	2.8	331.6	332.6	1.0
1006 (6,847)	351.40	352.40	1.00	0.21	0.76	1.9	0.060	345.7	346.7	1.0
	352.40	353.20	0.80	<0.020	0.28	2.9				
	353.20	353.90	0.70	0.041	0.85	<0.1	0.33	352.0	352.8	0.8
	353.90	355.10	1.20	0.026	0.24	3.7	0.040	352.8	353.8	1.0
							0.13	353.8	354.4	0.6

^{c/} Sample in mudstone.

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land--Continued										
1010 (6,882)	365.70	366.20	0.50	<0.020	0.37	0.1				
	382.00	382.80	0.80	<0.020e	0.26	2.5				
1011 (6,850)	324.85	325.85	1.00	0.37	0.97	1.4	1.9	326.0	326.7	0.7
	345.00	346.50	1.50	0.022	<0.10	1.4	0.049	345.7	346.7	1.0
	346.50	347.50	1.00	0.23	0.25	0.7	0.26	346.7	347.2	0.5
	347.50	349.10	1.60	0.035	<0.10	3.9	0.54	347.2	348.0	0.8
							0.030	348.0	349.3	1.3
							0.058	350.8	351.7	0.9
1015 (6,869)	319.55	319.80	0.25	<0.020	0.11	8.5	1.2	342.1	342.7	0.6
	341.40	343.40	2.00	1.27	0.55	2.0	0.040	344.6	346.5	1.9
1023 (6,860)	326.80	327.80	1.00	<0.020	0.10	4.8	>0.10d/	327.9	331.3	3.4
	327.80	330.00	2.20	0.17	0.62	0.1				
	330.00	331.75	1.75	0.062	0.46	0.4				
	331.75	334.35	2.60	<0.020	0.46	1.2				
1025 (6,899)	324.50	325.30	0.80c/	<0.020e	0.13	Undet.	0.021	339.0	342.2	3.2
	338.20	340.00	1.80	<0.020	0.24	3.6				

c/ Sample in mudstone.

d/ Hole caved, reading incomplete.

91

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land--Continued										
1062 (6,840)	313.30	313.80	0.50	<0.020	0.26	1.5	0.15	320.7	321.5	0.8
	313.80	314.10	0.30	0.054	0.26	2.8				
	314.10	314.60	0.50	0.033	0.97	<0.1				
	314.60	315.10	0.50	<0.020	0.18	1.0				
1092 (6,909)	338.60	339.10	0.50	0.030	0.21	2.9				
1104 (6,888)	321.10	321.40	0.30	<0.020e	0.15	Undet.	0.039	334.8	335.3	0.5
							0.052	335.3	336.1	0.8
	334.80	335.90	1.10	<0.020e	0.23	Undet.				
1108 (6,887)	a/						0.046	357.8	358.7	0.9
1111 (6,886)	a/						0.030	348.1	349.4	1.3
1112 (6,888)	a/						< 0.030 ^{d/}	338.4	338.8	0.4
1114 (6,888)	318.20	318.60	0.40 ^{c/}	0.026	0.14	0.2	0.034	318.4	319.3	0.9
							0.028	329.9	330.4	0.5
							0.025	331.0	332.0	1.0

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

d/ Hole caved, reading incomplete

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land--Continued										
1115 (6,893)	a/						0.045	334.2	335.0	0.8
							0.032	338.3	339.2	0.9
1117 (6,899)	a/						0.052	315.5	316.2	0.7
							0.15	325.6	326.4	0.8
							0.031	326.4	326.8	0.4
1118 (6,816)	321.00	321.75	0.75	0.11	1.42	0.4	4.1	321.7	322.4	0.7
	321.75	322.20	0.45	1.25	5.17	0.3				
	322.20	323.00	0.80	< 0.020e	0.28	Undet.				
1119 (6,810)	339.00	340.90	1.90	< 0.020e	0.37	Undet.	0.052	341.0	341.8	0.8
1121 (6,874)	344.05	344.60	0.55	0.028e	< 0.10	Undet.	0.20	339.6	340.6	1.0
							0.065	340.6	341.9	1.3
							0.28	341.9	342.9	1.0
1122 (6,874)	334.40	334.90	0.50	0.060	< 0.10	0.1	0.20	335.0	335.8	0.8
	334.90	335.30	0.40c/	0.11	< 0.10	0.2	0.083	335.8	338.5	2.7
	336.05	336.80	0.75	0.042	< 0.10	Undet.	0.040	341.0	342.2	1.2
	340.80	341.20	0.40c/	0.025	0.58	0.4				
	341.20	341.70	0.50c/	0.029e	0.12	Undet.				

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

93

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land---Continued										
1125 (6,864)	325.50	326.30	0.80	0.11	0.25	2.3	0.26	326.3	328.0	1.7
	326.30	328.70	2.40	0.19	0.56	0.7				
	328.70	330.20	1.50	7.16	5.74	0.6	7.3	328.5	329.9	1.4
	330.20	331.20	1.00	0.16	0.72	0.1	1.1	329.9	330.5	0.6
	331.20	332.00	0.80	7.64	15.98	0.2	9.0	330.5	331.6	1.1
	332.00	333.34	1.34	0.078	0.44	0.1	0.030	331.6	336.1	4.5
	333.34	335.80	2.46	0.029e	0.29	Undet.				
1127 (6,860)	328.10	328.80	0.70	0.057	0.38	0.1	0.045	328.2	329.2	1.0
	345.50	345.80	0.30	<0.020e	0.24	Undet.				
1133 (6,832)	340.10	340.50	0.40 ^{c/}	0.052	<0.10	0.6	0.059 0.045	349.8 350.5	350.5 350.9	0.7 0.4
	325.00	325.70	0.70	0.090	0.38	1.1	0.20 0.15	325.1 328.2	325.9 329.0	0.8 0.8
1137 (6,856)	342.70	343.70	1.00	0.030e	<0.10	Undet.	0.030	341.4	342.8	1.4
1139 (6,835)	315.40	316.00	0.60	0.15	0.72	0.9	0.18	314.1	314.9	0.8
	316.00	316.40	0.40	0.066	0.11	7.7	0.080	316.7	317.5	0.8
	318.30	318.80	0.50	0.073	1.52	0.1				

^{c/} Sample in mudstone.

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 27, Public land--Continued										
1144 (6,836)	312.20	312.70	0.50 ^{c/}	<0.020e	0.14	Undet.	0.021	313.0	314.0	1.0
	341.20	343.10	1.90	<0.020e	0.52	0.1				
1145 (6,844)*	a/						0.022	303.20	304.10	0.9
1150 (6,846)	342.70	343.60	0.90	0.067	0.50	0.5	0.33	341.7	342.5	0.8
	348.70	349.50	0.80	<0.020e	1.16	<0.1	0.052	347.8	348.6	0.8
							0.023	371.3	372.2	0.9
1153 (6,856)	370.30	371.60	1.30	<0.020e	0.24	Undet.				
	371.60	372.90	1.30	<0.020e	0.31	Undet.				
	372.90	373.70	0.80	<0.020e	0.45	Undet.				
1158 (6,878)	368.30	369.40	1.10	<0.020e	0.31	Undet.				
	370.20	370.70	0.50	<0.020e	0.14	Undet.				
1162 (6,837)*	a/						0.040	362.9	363.9	1.0
1186 (6,876)	363.70	364.20	0.50 ^{c/}	0.030e	0.1	Undet.	0.066	363.2	364.3	1.1

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU ₃ O ₈	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 27, Public land--Continued										
1258 (6,771)	a/						0.052	330.8	331.3	0.5
1277 (6,874)	378.70	379.50	0.80	0.054	0.42	2.6	0.12	375.7	376.5	0.8
Block 28, Public land										
1116 (6,698)*	279.60	280.10	0.50	<0.020e	0.46	Undet.				
1209 (6,700)*	a/						<0.030	320.6	320.9	0.3
1222 (6,700)*	a/						0.022	317.0	317.7	0.7
Block 29, Public land										
669 (6,786)	322.10	322.30	0.20	<0.020	1.48	0.1	Not probed			
824 (6,785)	316.80	318.00	1.20	0.44	1.74	0.2	VS	310.8	311.1	0.3
	341.85	342.70	0.85	0.039	<0.10	4.4	W	333.9	334.2	0.3

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

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96

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 29, Public land--Continued										
824--Continued (6,785)							S	336.6	339.8	3.2
							W	341.0	341.5	0.5
							W	343.3	343.6	0.3
838 (6,774)	313.20	313.80	0.60	0.12	1.71	0.2	VS	313.3	314.1	0.8
846 (6,781)	304.90	306.40	1.50	0.026	<0.10	17.0	W	304.2	305.6	1.4
							W	305.6	306.6	1.0
							W	320.2	321.0	0.8
							W	326.3	327.3	1.0
1036 (6,816)	a/						0.067	343.1	343.9	0.8
1044 (6,807)	a/						0.025	340.0	340.9	0.9
1045 (6,761)	293.60	294.60	1.00c/	0.040	0.20	2.7	0.025	291.6	292.7	1.1
	294.60	295.00	0.40c/	0.38	1.19	0.4	0.57	292.7	293.3	0.6

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

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97

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU ₃ O ₈	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 29, Public land--Continued										
1097 (6,814)	a/						0.022	258.5	260.9	2.4
1235 (6,801)	349.50	349.70	0.20	<0.020e	0.18	Undet.	0.028	336.6	337.8	1.2
1245 (6,829)	345.70	346.50	0.80	0.077	0.43	24.3	0.30	345.7	346.4	0.7
1249 (6,774)	296.60	296.85	0.25	0.026e	0.23	Undet.	0.021	294.8	295.7	0.9
	296.85	297.90	1.05	0.15	1.56	0.1	0.39	295.7	296.8	1.1
	297.90	298.40	0.50	0.046	0.25	5.7	0.065	296.8	297.9	1.1
							0.038	317.7	318.6	0.9
							0.020	318.6	319.4	0.8
1252 (6,761)	310.10	310.40	0.30	<0.020e	0.51	<0.1	0.027	287.8	288.9	1.1
Block 30, Public land										
1050 (6,700)	260.00	262.00	2.00	<0.020	0.60	0.1	5.3	261.9	263.0	1.1
	262.00	263.00	1.00	0.51	4.19	0.2				
	277.00	277.90	0.90	<0.020e	0.34	1.8				

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

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SECURITY INFORMATION

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 30, Public land--Continued										
1053	280.00	281.50	1.50	<0.020	0.63	1.6	0.088	281.2	282.1	0.9
(6,723)	281.50	282.75	1.25	0.047	0.54	0.1	0.12	282.1	283.9	1.8
	282.75	283.50	0.75	1.51	4.98	0.2	4.0	283.9	284.9	1.0
	283.50	285.50	2.00	<0.020	0.21	<0.1				
1113	a/						0.059	265.4	266.0	0.6
(6,691)							0.025	283.5	284.3	0.8
							0.022	287.0	288.0	1.0
1201	257.90	259.95	2.05	0.039	0.45	0.1				
(6,688)										
1226	279.20	279.90	0.70	<0.020e	0.47	Undet.				
(6,718)										
Block 31, Public land										
504	257.50	257.75	0.25	<0.020	0.13	4.6	Not probed			
(6,615)										
638	264.00	264.30	0.30	<0.020	0.16	8.3	Not probed			
(6,604)	264.30	264.55	0.25	0.12	1.03	6.3				
	264.55	266.80	2.25	0.024	0.45	6.3				

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery

CONFIDENTIAL
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99
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 31, Public land--Continued										
638--Continued (6,604)	266.80	267.05	0.25	0.020	0.17	1.2	Not probed			
	267.30	267.55	0.25	<0.020	0.20	4.4				
652 (6,619)	260.10	260.35	0.25	0.059	0.60	0.2				
	260.35	260.58	0.23	0.54	2.54	0.3				
	260.58	261.08	0.50	0.78	3.09	0.3				
	261.08	261.33	0.25	0.73	2.12	0.2				
	261.33	261.70	0.37	0.056	0.80	0.1				
	261.70	262.05	0.35	0.19	0.29	2.9				
	262.05	264.10	2.05	0.042	0.31	8.0				
	264.10	264.60	0.50	0.16	0.52	0.6				
	264.60	264.70	0.10	0.060	0.65	1.4				
264.70	266.15	1.45 ^{c/}	0.024	0.18	7.2					
Block 32, Public land										
1073 (6,738)	318.60	319.60	1.00	<0.020	0.94	0.1	0.51	320.6	321.3	0.7
	319.60	320.65	1.05	0.11	0.76	<0.1				
1175 (6,750)	334.10	339.60	5.50	<0.020 ^e	0.40	Undet.	0.30	337.5	338.3	0.8
1191 (6,729)*	a/						0.027	288.0	289.0	1.0

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

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100

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 32, Public land--Continued										
1237 (6,748)	328.30	328.70	0.40	1.24	2.09	0.3	0.024	301.3	302.4	1.1
	328.70	329.20	0.50	0.34	1.35	<0.1				
	329.20	329.40	0.20	< 0.020e	0.69	0.3	5.0	327.2	328.0	0.8
	329.40	329.70	0.30	< 0.020e	0.13	Undet.				
	333.20	334.00	0.80	< 0.020e	0.39	Undet.				
	334.00	334.50	0.50	< 0.020e	0.49	Undet.				
1248 (6,757)	324.50	325.90	1.40	< 0.020e	0.43	24.3	3.1	326.9	327.6	0.7
							0.22	327.6	330.0	2.4
	329.70	330.20	0.50	0.021	0.36	1.0	0.53	330.0	331.6	1.6
	330.20	330.95	0.75	0.17	0.95	0.8	1.3	331.6	332.2	0.6
	331.70	332.55	0.85	< 0.020e	0.19	Undet.				
	332.55	333.10	0.55	0.33	0.48	1.4				
	333.10	334.50	1.40	0.50	1.85	0.2				
Block 33, Public land										
502 (6,688)	284.00	285.50	1.50	< 0.020	0.43	0.6	Not probed			
Block 34, Public land										
471 (6,850)	366.70	367.40	0.70	< 0.020	0.75	0.1	Not probed			

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SECURITY INFORMATION

101

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 35, Public land										
1087 (6,901)	355.80	356.30	0.50	<0.020	0.38	0.2	0.38	376.8	377.4	0.6
							1.4	377.4	378.1	0.7
	375.50	376.40	0.90	<0.020	1.63	0.1	0.16	378.1	378.8	0.7
	376.40	376.80	0.40	0.026	0.37	<0.1				
	376.80	377.30	0.50	0.25	1.22	0.1				
	377.30	378.00	0.70	<0.020	0.74	<0.1				
	379.00	381.25	2.25	<0.020	0.10	5.6				
1169 (6,892)	375.10	375.80	0.70	<0.020e	0.21	Undet.	3.0	375.9	376.6	0.7
	375.80	376.30	0.50	0.050	0.54	0.1				
	376.30	377.30	1.00	<0.020e	0.15	Undet.				
Block 36, Public land ^{f/}										
1100 (6,814)	331.60	332.70	1.10	<0.020e	0.36	Undet.				
1263 (6,804)	a/						0.090	325.8	326.7	0.9
1278 (6,792)	322.50	323.20	0.70	<0.020e	1.41	0.8	0.022	312.4	313.2	0.8

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

f/ Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

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Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 37, Public land, ^{f/} Hanson No. 3 and Negus (?) claims										
645 (6,765)*	178.70	180.10	1.40	<0.020	0.30	4.9	Not probed			
	180.10	181.10	1.00	<0.020	0.76	0.2				
646 (6,736)	95.55	96.05	0.50	<0.020	0.17	1.0	0.025	94.5	95.6	1.1
	96.50	99.50	3.00	<0.020	0.39	0.1				
	99.50	101.70	2.20	<0.020	0.29	0.1				
	101.70	102.70	1.00	<0.020	1.26	0.1				
	102.70	105.30	2.60	<0.020	0.48	0.1				
	105.30	106.80	1.50	<0.020	0.52	0.1				
	106.80	107.60	0.80	<0.020	0.21	0.1				
647 (6,743)	107.00	107.25	0.25	0.46	1.54	0.9	0.29 0.13 0.061	100.3 104.7 106.3	104.7 106.3 109.2	4.4 1.6 2.9
	107.25	107.50	0.25	0.12	0.68	0.6				
	107.50	109.03	1.53	0.067	0.47	2.7				
	109.03	110.70	1.67	0.031	0.26	3.4	0.44	114.0	115.0	1.0
	110.70	112.00	1.30	<0.020	0.58	3.3				
	112.00	113.25	1.25	<0.020	0.82	1.1				
	113.25	115.04	1.79	<0.020	1.67	0.2	0.092	155.5	156.4	0.9
	115.04	116.08	1.04	0.092	1.80	0.1				
	116.08	117.00	0.92	<0.020	1.75	<0.1				
650 (6,735)*	98.20	98.70	0.50	0.53	1.53	0.1	0.96 0.039	95.8 96.7	96.7 98.1	0.9 1.4
	98.70	99.20	0.50	0.19	1.37	0.1				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

CONFIDENTIAL
SECURITY INFORMATION

103

Table 4.—Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 37, Public land, ^{f/} Hanson No. 3 and Negus (?) claims--Continued										
650--Continued (6,735)*	99.20	99.80	0.60	0.069	0.77	0.1	0.020	110.2	111.1	0.9
	102.10	103.80	1.70	< 0.020	0.78	0.1				
651 (6,728)	91.46	92.21	0.75	0.021	< 0.10	0.4				
656 (6,738)	94.80	96.60	1.80	< 0.020	0.31	0.2	Not probed			
	96.60	97.20	0.60	0.020	0.11	0.2				
662 (6,743)	105.31	106.29	0.98	0.094	0.24	0.2	3.0	101.0	101.9	0.9
	106.29	106.83	0.54	0.59	0.92	0.3				
	106.83	107.00	0.17	0.45	1.24	0.1	0.40	108.8	110.0	1.2
	107.00	107.70	0.70	0.19	1.73	0.1	0.059	110.0	110.7	0.7
	107.70	109.00	1.30	0.070	1.07	0.2	0.16	110.7	111.6	0.9
	109.25	109.50	0.25	< 0.020	0.17	0.1				
	147.50	149.00	1.50	0.020	< 0.10	3.5				
	149.00	151.85	2.85	0.025	< 0.10	4.2				
664 (6,742)	121.80	123.10	1.30	< 0.020	1.20	0.5				

f/ Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

CONFIDENTIAL
SECURITY INFORMATION

104

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU_3O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 37, Public land, ^{f/} Hanson No. 3 and Negus (?) claims--Continued										
665 (6,738)	118.10	118.70	0.60	< 0.020	0.21	0.1	0.023	120.1	121.4	1.3
666 (6,742)	131.00	132.00	1.00	0.035	0.60	0.1	5.9	125.0	126.6	1.6
							0.54	130.3	131.2	0.9
667 (6,730)	90.19	92.05	1.86	0.025	0.37	0.1	0.035	89.9	91.1	1.2
	92.05	94.20	2.15	< 0.020	0.13	0.1				
	94.20	95.00	0.80	< 0.020	2.80	0.1	0.25	92.2	92.8	0.6
	95.00	97.45	2.45	< 0.020	0.55	0.1				
	97.45	99.10	1.65	< 0.020	0.86	0.1	0.020	94.9	96.7	1.8
	99.10	100.20	1.10	< 0.020	1.49	0.1				
	100.20	102.51	2.31	< 0.020	0.21	0.1	0.020	99.7	102.3	2.6
670 (6,743)	102.51	103.80	1.29	< 0.020	0.16	0.1				
	128.80	128.90	0.10	< 0.020	1.27	0.7	0.75	130.0	130.7	0.7
	128.90	129.40	0.50	< 0.020	0.58	0.3	0.065	130.7	132.1	1.4
	129.70	130.70	1.00	0.031	0.20	2.7				
	130.70	130.95	0.25	0.33	0.40	2.2				
	130.95	131.20	0.25	0.24	0.22	3.0				
	131.20	132.50	1.30	0.065	< 0.10	3.8				
	132.50	133.50	1.00	0.035	< 0.10	3.2				

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

105

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 37, Public land, ^{f/} Hanson No. 3 and Negus (?) claims--Continued										
673 (6,752)	138.00	139.70	1.70	< 0.020	0.50	1.1	0.020	138.1	139.2	1.1
	139.70	140.90	1.20 ^{b/}	< 0.020	0.24	1.1	0.041	139.2	140.2	1.0
680 (6,746)	103.70	106.00	2.30	< 0.020	0.52	0.1	0.097	94.9	95.8	0.9
	110.86	111.36	0.50	< 0.020	0.22	8.6	0.11	152.6	154.1	1.5
	153.35	155.60	2.25	0.056	0.24	9.8				
685 (6,775)	202.00	203.20	1.20	< 0.020	0.81	0.1	Not probed			
	203.20	203.50	0.30	< 0.020	0.16	5.2				
	203.50	204.10	0.60	0.10	0.43	4.5				
	204.10	205.25	1.15	< 0.020	0.10	1.3				
689 (6,742)	85.00	85.30	0.30	0.024	0.76	0.1	Not probed			
	85.30	86.20	0.90	0.028	0.97	0.1				
	86.20	86.70	0.50	0.056	0.36	2.0				
	86.70	87.60	0.90	0.105	1.02	0.1				
	87.60	88.10	0.50	0.029	0.40	1.0				
	92.10	93.20	1.10	0.027	0.81	3.5				
	93.20	95.20	2.00	0.033	0.40	2.0				
	95.20	95.50	0.30	0.032	1.84	0.1				
	95.50	96.60	1.10	< 0.020	0.32	3.6				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

106

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 37, Public land, ^{f/} Hanson No. 3 and Negus (?) claims--Continued										
689--Continued (6,742)	97.35	97.60	0.25	<0.020	0.54	2.4				
	104.90	105.15	0.25	<0.020	0.38	0.1				
690 (6,754)	163.40	163.90	0.50	<0.020	0.42	2.7	0.048	162.3	163.4	1.1
	164.87	165.12	0.25	<0.020	0.16	3.8	0.029	163.4	164.1	0.7
692 (6,761)	172.63	172.88	0.25	<0.020	0.38	0.4	Not probed			
	174.14	174.50	0.36	<0.020	0.26	6.3				
	176.09	177.34	1.25	<0.020	0.18	6.8				
	177.84	178.09	0.25	<0.020	0.95	4.2				
693 (6,749)	192.20	192.40	0.20	<0.020	0.14	0.9	Not probed			
695 (6,755)	148.70	148.80	0.10	<0.020	1.23	0.1	Not probed			
	151.15	151.65	0.50 ^{b/}	<0.020	0.27	0.5				
696 (6,718)	83.00	85.10	2.10	<0.020	0.43	0.1				
	85.10	86.10	1.00	<0.020	0.18	0.3				

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

OFFICIAL USE ONLY

107
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU_3O_8	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 37, Public land, ^{f/} Hanson No. 3 and Negus (?) claims--Continued										
697 (6,732)	70.86	72.60	1.74	< 0.020	0.14	0.9	0.025	67.3	68.4	1.1
	75.80	76.30	0.50	< 0.020	0.34	< 0.1	0.029	69.0	70.2	1.2
698 (6,767)	159.64	159.80	0.16	< 0.020	0.54	3.8	Not probed			
	159.80	160.00	0.20	0.12	2.43	0.2				
	160.00	160.50	0.50 ^{b/}	0.035	0.31	0.4				
	160.50	162.25	1.75	0.037	0.84	2.0				
	162.25	163.60	1.35	< 0.020	0.36	1.4				
	169.90	170.15	0.25	0.027	< 0.10	0.1				
701 (6,720)	127.10	128.60	1.50	< 0.020	0.27	8.4	0.020	113.9	115.1	1.2
							0.094	125.2	126.1	0.9
702 (6,711)	106.50	108.40	1.90	0.040	0.18	3.4	1.8	106.6	107.2	0.6

Block 38, Sun claim

529	25.24	26.40	1.16	< 0.020	0.25	0.1
(6,950)*	26.40	27.10	0.70	< 0.020	0.63	0.1

^{b/} Assayed by American Smelting and Refining Co., Grand Junction, Colo.

^{f/} Public land leased to Climax Uranium Co. (Government lease No. AT-(49-1)-526).

108

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 38, Sun claim--Continued										
627 (6,950)*	20.76	21.26	0.50	<0.020	0.13	0.2				
Block 39, Public land										
6 (6,995)*	14.25	14.64	0.39	<0.020	0.13	0.4				
637 (6,990)*	19.10	19.20	0.10	<0.020	2.51	0.2	0.053	18.0	19.1	1.1
Block 40, Public land										
1043 (6,920)*	70.00	70.80	0.80	0.020	0.16	0.1	0.026	69.2	70.1	0.9
	70.80	71.40	0.60 _{c/}	0.062	1.04	0.2	0.080	70.1	71.0	0.9
1083 (6,930)*	86.40	86.70	0.30 _{c/}	<0.020	0.28	1.4	0.056	86.1	86.9	0.8
Block 41, Cherie No. 2 claim										
904 (6,815)	103.40	103.90	0.50	0.052	<0.10	14.8				

c/ Sample in mudstone.

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CONFIDENTIAL
SECURITY INFORMATION

109
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU ₃ O ₈	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 41, Cherie No. 2 claim--Continued										
905 (6,830)*	120.70	121.20	0.50	0.060	0.93	0.4	3.8	108.9	109.5	0.6
909 (6,830)*	57.40	57.65	0.25	0.038	<0.10	15.0	0.034	121.0	122.4	1.4
							0.14	122.4	123.5	1.1
	120.50	122.50	2.00	0.028	0.34	3.4	0.049	123.5	124.7	1.2
	122.50	123.55	1.05	0.070	<0.10	3.4	0.31	124.7	125.4	0.7
							6.1	125.4	126.1	0.7
	125.50	126.95	1.45	0.39	0.06	8.5	0.63	126.1	126.8	0.7
	126.95	128.00	1.05	0.046	0.42	1.4	3.5	126.8	127.6	0.8
	128.00	129.25	1.25	0.34	<0.10	6.6	0.16	127.6	129.1	1.5
	129.25	130.00	0.75	0.061	0.92	5.6				
910 (6,827)	120.00	121.05	1.05	0.24	0.70	3.8	5.1	121.7	122.4	0.7
	121.30	121.55	0.25	<0.020	0.11	6.5				
913 (6,835)*	113.80	113.90	0.10	<0.020e	0.28	17.0				
	120.80	121.55	0.75	<0.020	0.11	4.8				
914 (6,832)	122.45	125.70	2.25	0.024	<0.10	10.2	0.033	122.7	124.4	1.7
	129.50	130.00	0.50	<0.020	0.13	3.8	0.039	125.2	126.5	1.3

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CONFIDENTIAL
SECURITY INFORMATION

CONFIDENTIAL
SECURITY INFORMATION

110

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU_3O_8	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$		From	To	
Block 41, Cherie No. 2 claim--Continued										
915 (6,830)*	94.00	94.25	0.25	<0.020	0.31	7.2	0.082	123.4	124.1	0.7
							0.097	124.1	124.8	0.7
	116.59	117.09	0.50	0.038	0.25	4.9				
	124.20	124.90	0.70	0.020	<0.10	6.8				
	124.90	125.60	0.70	0.049	0.18	6.9				
	125.60	126.00	0.40	0.097	1.29	2.7				
	126.00	126.40	0.40	<0.020	0.62	3.5				
Block 42, Public land										
233 (6,670)*	186.00	186.60	0.60	0.074	0.33	0.6	0.28	185.1	185.9	0.8
	186.60	186.90	0.30	0.088	0.06	0.8				
	186.90	187.80	0.90	0.031	0.24	0.4				
472 (6,680)*	189.45	189.97	0.52	<0.020	0.13	14.1	Not probed			
	190.22	190.80	0.58	<0.020	0.24	12.4				
	190.80	191.90	1.10	1.15	4.76	0.5				
	191.90	193.00	1.10	0.49	2.44	0.2				
	193.00	193.20	0.20	<0.020	0.19	0.1				
	193.45	193.80	0.35	<0.020	0.53	1.4				
	194.80	196.70	1.90	<0.020	1.75	1.4				

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CONFIDENTIAL
SECURITY INFORMATION

CONFIDENTIAL
SECURITY INFORMATION

111

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 42, Public land--Continued										
477 (6,675)*	202.70	203.00	0.30	<0.020	0.68	0.1	Not probed			
Block 43, Public land										
488 (6,510)*	237.42	239.42	2.00	0.021	0.34	1.8	Not probed			
612 (6,490)*	242.70	242.95	0.25	0.034	1.60	0.3	Not probed			
	242.95	243.45	0.50	0.13	1.31	6.8				
	243.45	243.80	0.35	0.074	0.79	6.7				
Block 44, Lavada No. 1										
331 (6,100)*	64.32	64.57	0.25	<0.020	0.32	3.6	0.062	65.9	66.7	0.8
	65.50	66.00	0.50	0.043	1.15	1.8				
Block 45, Lucky K No. 2 and Lucky K No. 6 claims										
363 (5,975)*	102.00	103.20	1.20	0.030	0.47	1.3	0.033	102.0	103.4	1.4

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CONFIDENTIAL
SECURITY INFORMATION

CONFIDENTIAL
SECURITY INFORMATION

112

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Block 45, Lucky K No. 2 and Lucky K No. 6 claims--Continued										
391 (5,975)*	97.90	99.60	1.70	<0.020	0.19	1.5	0.16	97.8	99.2	1.4
							0.073	99.2	100.4	1.2
	99.95	100.20	0.25	0.020	0.10	14.3				
	100.20	100.70	0.50 ^{c/}	0.12	0.17	8.6				
398 (5,975)*	64.89	65.14	0.25 ^{c/}	<0.020	0.30	0.4	0.82	100.4	101.2	0.8
410 (5,975)*	69.95	71.40	1.45	0.037	0.17	4.5	0.15	69.4	70.4	1.0
	71.40	71.70	0.30	0.084	<0.10	4.5				
							0.026	103.7	104.8	1.1
	102.00	103.00	1.00	<0.020	0.14	3.7				
	103.00	103.50	0.50	<0.020	0.17	3.0				
	103.50	104.50	1.00	0.023	<0.10	6.1				

Block 46, Elk No. 1 claim

389 (5,920)*	91.20	93.00	1.80	0.020	0.11	7.6	Not probed
	93.25	94.25	1.00	0.074	0.24	6.9	

Block 47, Public land

432 (5,815)*	138.10	139.10	1.00 ^{c/}	<0.020	0.50	6.6	Not probed
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^{c/} Sample in mudstone.

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SECURITY INFORMATION

CONFIDENTIAL
SECURITY INFORMATION

113

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Other holes										
21 (6,888)	28.30	28.50	0.20	<0.020	2.22	0.1				
22 (6,889)	a/						0.020	19.6	21.5	1.9
86 (6,861)	91.90	92.89	0.99	<0.020	0.11	10.5	3.3	90.0	90.8	0.8
119 (6,775)	a/						0.85	10.1	10.8	0.7
281 (6,420)*	15.50	16.40	0.90	<0.020	0.42	0.5	Not probed			
335 (6,910)*	10.27	10.62	0.35	<0.020	0.13	0.1	Not probed			
358 (6,080)*	110.60	111.60	1.00	<0.020	0.13	1.1	Not probed			
452 (6,756)	190.90	191.90	1.00	<0.020	0.15	0.1	Not probed			

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

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114
Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Other holes--Continued										
456 (6,757)	196.20	197.20	1.00	< 0.020	0.24	0.1	Not probed			
523 (6,854)	99.50	99.80	0.30	< 0.020	0.17	0.3	Not probed			
622 (6,753)	192.20	192.40	0.20	< 0.020	0.92	0.1	Not probed			
672 (6,660)*	134.60	137.15	2.55 ^{c/}	< 0.020	0.16	13.7	Not probed			
677 (6,770)*	345.92	346.17	0.25	< 0.020	0.11	9.0	Not probed			
	346.50	348.00	1.50	< 0.020	0.20	3.7				
703 (6,887)	93.30	94.10	0.80	0.020e	0.16	0.3				
725 (6,809)	46.10	46.90	0.80	< 0.020e	0.43	0.4				
	48.26	48.51	0.25	< 0.020	0.58	0.2				
743 (6,849)	29.85	30.65	0.80	< 0.020	0.25	9.3	W	27.8	28.6	0.8

^{c/} Sample in mudstone.

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115

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Other holes--Continued										
763 (6,893)	60.95	61.45	0.50	0.020	<0.10	20.9	W	52.0	53.5	1.5
809 (6,880)	70.50	70.75	0.25	<0.020	0.12	2.5				
889 (6,654)	a/						W	95.4	96.4	1.0
							W	98.1	98.5	0.4
890 (6,627)	95.05	95.55	0.50 ^{c/}	0.028	<0.10	10.1				
955 (6,703)	3.60	3.90	0.30	<0.020	0.71	0.1				
958 (6,713)	13.60	14.00	0.40	<0.020	1.41	0.1	0.065	13.4	14.2	0.8
989 (6,696)	25.20	26.20	1.00	0.026	<0.10	<0.1				

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

c/ Sample in mudstone.

116

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data						Gamma-ray intensity or eU ₃ O ₈	Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent				Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Other holes--Continued										
993 (6,730)							0.046	47.2	48.0	0.8
994 (6,719)	15.10	15.35	0.25	0.027	0.29	0.1				
996 (6,728)	13.55	14.05	0.50	0.036	0.15	<0.1				
	14.80	15.55	0.75	0.029	< 0.10	0.8				
1026 (6,891)	212.70	215.00	2.30	0.026	< 0.10	6.3	0.082	214.4	215.1	0.7
1065 (6,995)*	a/						0.042	97.9	98.7	0.8
							0.026	100.5	101.2	0.7
1067 (6,850)*	101.20	101.45	0.25	<0.020	0.34	0.3	0.028	120.2	121.2	1.0
1075 (6,885)*	69.60	70.00	0.40	<0.020	0.56	<0.1				
	70.00	71.65	1.65	<0.020	0.16	0.3				
1110 (6,980)	353.40	353.70	0.30	<0.020e	0.33	Undet.				

a/ No mineralized samples, or sample deficient, probably because of incomplete core recovery.

117

Table 4.--Assay data, Outlaw Mesa, Mesa County, Colorado

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent			Gamma-ray intensity or eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃		From	To	
Other holes--Continued										
1194 (6,726)	a/						0.041	248.7	249.5	0.8
1253 (6,708)	a/						0.049 0.028	325.1 325.5	325.5 326.5	0.4 1.0

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