

(2000)
77672
no. 550

OFFICIAL USE ONLY

Geology and Mineralogy

UNITED STATES DEPARTMENT OF THE INTERIOR

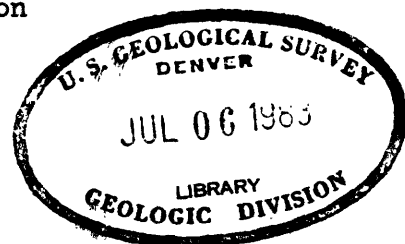
GEOLOGICAL SURVEY

EXPLORATION FOR URANIUM-VANADIUM DEPOSITS IN LONG PARK
AND ADJACENT AREAS IN THE SOUTHERN PART OF THE
URAVAN DISTRICT, MONTROSE COUNTY, COLORADO*

By

R. L. Boardman, H. E. Bowers,
L. R. Litsey, and C. T. Sumsion

October 1956



Trace Elements Investigations Report 550

This preliminary report is distributed without editorial and technical review for conformity with official standards and nomenclature. It is not for public inspection or quotation.

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

OFFICIAL USE ONLY

OFFICIAL USE ONLY

2

USGS - TEI-550

GEOLOGY AND MINERALOGY

<u>Distribution</u>	<u>No. of copies</u>
Atomic Energy Commission, Washington	1
Division of Raw Materials, Albuquerque	1
Division of Raw Materials, Austin.	1
Division of Raw Materials, Casper.	1
Division of Raw Materials, Denver.	1
Division of Raw Materials, Ishpeming	1
Division of Raw Materials, Phoenix	1
Division of Raw Materials, Rapid City.	1
Division of Raw Materials, Salt Lake City.	1
Division of Raw Materials, Spokane	1
Division of Raw Materials, Washington.	3
Exploration Division, Grand Junction Operations Office .	6
Grand Junction Operations Office	1
Technical Information Service Extension, Oak Ridge . . .	6
U. S. Geological Survey:	
Fuels Branch, Washington	1
Geochemistry and Petrology Branch, Washington.	1
Geophysics Branch, Washington.	1
Mineral Classification Branch, Washington.	1
Mineral Deposits Branch, Washington.	2
P. C. Bateman, Menlo Park.	1
A. L. Brokaw, Grand Junction	2
N. M. Denson, Denver	1
V. L. Freeman, College	1
R. L. Griggs, Albuquerque.	1
W. R. Keefer, Laramie.	1
M. R. Klepper, Spokane	1
P. K. Sims, Denver	1
L. R. Page, Washington	1
Q. D. Singewald, Beltsville.	1
A. E. Weissenborn, Spokane	1
TEPCO, Denver.	2
TEPCO, RPS, Washington, (including master)	2
	<u>48</u>

OFFICIAL USE ONLY

CONTENTS

	Page
Abstract and summary	5
Introduction	7
General geology.	14
Stratigraphy.	14
Morrison formation	14
Salt Wash member.	14
Brushy Basin member	15
Structure cont.	16
Ore deposits	16
Mineralogy.	18
Origin and localization	19
Geologic guides to ore	21
Geological Survey exploration.	24
Reserves	26
Definition and methods.	26
Indicated and inferred reserves.	26
Thickness cutoff.	27
Grade cutoffs	28
Calculation of tonnage.	29
Calculation of grade.	30
Reserve blocks.	30
Potential reserves	31
Long Park area reserves	31
Indicated and inferred reserves.	31
Potential reserves	34
Plans and recommendations.	35
Literature cited	36
Unpublished reports.	37

ILLUSTRATIONS

- Figure 1. Index map of part of the Colorado Plateau showing location of figures 3a and 3b in the Uravan district, Montrose County, Colo 8
2. Simplified geologic map of the southern part of the Uravan district, showing the boundary of the explored area described in this report, Montrose County, Colo. 9
- 3a.. Map of the southwestern part of the Uravan district, Montrose County, Colo In envelope
- 3b. Map of the southeastern part of the Uravan district, Montrose County, Colo In envelope

4. Geologic sections of the southern part of the Uravan district, Montrose County, Colo. In envelope
5. Map and geologic sections of part of western Long Park, Uravan district, Montrose County, Colo. . . . In envelope
6. Map and geologic sections of part of west-central Long Park, Uravan district, Montrose County, Colo. In envelope
7. Map and geologic sections of part of east-central Long Park, Uravan district, Montrose County, Colo. In envelope
8. Maps and geologic sections of parts of south-eastern Long Park, Uravan district, Montrose County, Colo. In envelope

TABLES

Table 1. Production of uranium-vanadium ore from the southern part of the Uravan district, Montrose County, Colo.; 1911 - September 1955.	11
2. Production by mining claim of uranium-vanadium ore from the southern part of the Uravan district, Montrose County, Colo.; February 1951 - September 1955.	12
3. Summary of indicated and inferred reserves found by U. S. Geological Survey drilling, Long Park area, Uravan district, Montrose County, Colo.	32
4. Indicated and inferred reserves estimated for reserve blocks found by U. S. Geological Survey drilling, Long Park area, Uravan district, Montrose County, Colo.	33
5. Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.	39

EXPLORATION FOR URANIUM-VANADIUM DEPOSITS IN LONG PARK AND ADJACENT
AREAS IN THE SOUTHERN PART OF THE URAVAN DISTRICT,
MONTROSE COUNTY, COLORADO

By R. L. Boardman, H. E. Bowers, L. R. Litsey, and C. T. Sumsion

ABSTRACT AND SUMMARY

Between April 21, 1949, and August 20, 1955, the U. S. Geological Survey explored the southern part of the Uravan district for uranium-vanadium deposits with 1,400 diamond-drill holes that totaled 489,567 feet. The explored area includes Long Park and adjoining ground north, east, and southeast; Third Park and adjoining bench; and the Second Park bench, Montrose County, Colo.

The rocks exposed in this area are gently dipping marine and terrestrial formations ranging in age from late Paleozoic to late Mesozoic. The explored area is on the northeast flank of the Paradox salt anticline.

Most known uranium-vanadium deposits in the southern part of the district are in sandstone units in the upper part of the Salt Wash member of the Morrison formation of Jurassic age. Ore bodies range in size from small irregular masses that contain a few tons of ore to large tabular masses that contain several thousand tons of ore. Mineralized rock lies essentially parallel to the sandstone beds but does not follow the beds in detail. Most mineralized rock at or near the surface is sandstone impregnated by carnotite and vanadium hydromica. At greater depths, the uranium and vanadium minerals are principally uraninite(?), coffinite, corvusite, and montroseite. In most deposits uranium and vanadium minerals also impregnate mudstone and impregnate or replace carbonaceous material.

The origin of the ore and the factors that controlled its localization remain undetermined. Primary sedimentary structures in the ore-bearing sandstone layers apparently are closely related to localization of ore. The long axes of ore bodies and the trends of areas of favorable ground are nearly parallel to the strike of primary sedimentary structures. No relation has been found between fractures and trends or features related to ore. The concept of the Uravan mineral belt is supported by results of exploration and geologic studies in the district.

Near uranium-vanadium deposits the enclosing sandstone is lenticular, 25 feet or more thick, light brown or light gray, and commonly contains more carbonaceous material and disseminated pyrite or limonite than sandstone away from ore deposits. Mudstone and siltstone in contact with ore-bearing sandstone near deposits are generally green or gray instead of red or red brown as they are away from ore. Although each of these features is useful as a guide to ore, they are most useful as guides where they can be evaluated together. Abnormally low background radioactivity of ore-bearing sandstone and adjacent mudstone and siltstone, as shown on gamma-ray logs of drill holes, is believed to preclude the likelihood of ore deposits nearby, regardless of the presence of other favorable geologic features.

Indicated and inferred reserves of Class I material (rock 1 foot or more thick containing 0.10 percent or more U_3O_8 or 1.0 percent or more V_2O_5) discovered by U. S. Geological Survey drilling in the southern part of the Uravan district total about 250,800 short tons averaging 0.31 percent U_3O_8 and 2.04 percent V_2O_5 . About 75 percent of these reserves is in public land; the remainder is in mining claims. Indicated and inferred reserves of Class II material (rock 1 foot or more thick containing 0.05 percent or more U_3O_8 or 0.50 percent or more V_2O_5) found

by this drilling total about 415,600 short tons averaging 0.23 percent U_3O_8 and 1.53 percent V_2O_5 . Potential reserves of Class I material in the southern part of the Uravan district are estimated to be about 110,000 short tons averaging 0.25 percent U_3O_8 and 1.50 percent V_2O_5 . Indicated and inferred reserves of Class II material include all such reserves of Class I material.

No additional exploration is planned in the Uravan district by the U. S. Geological Survey. Geologic data from Survey drill holes in the district will be compiled on maps for publication, and a U. S. Geological Survey bulletin will be prepared on the geology and ore deposits in the district. Surface drilling and underground exploration, by mining claim owners and lessees, are recommended in the most favorable ground to develop additional reserves and find new deposits.

INTRODUCTION

Between April 21, 1949, and August 20, 1955, the U. S. Geological Survey explored the southern part of the Uravan district for uranium-vanadium deposits by diamond drilling. This drilling was done to find new minable uranium-vanadium deposits and to appraise the uranium-vanadium reserves in the area.

The explored ground lies south and southeast of Uravan (fig. 1) and is in Tps. 46 and 47 N., Rs. 16 and 17 W., New Mexico principal meridian, Montrose County, Colo. Included in the area are Long Park and adjoining ground north, east, and southeast; Third Park and adjoining bench; and the Second Park bench (fig. 2). The explored ground southwest of the San Miguel River (fig. 2) is referred to as the Long Park area in this report.



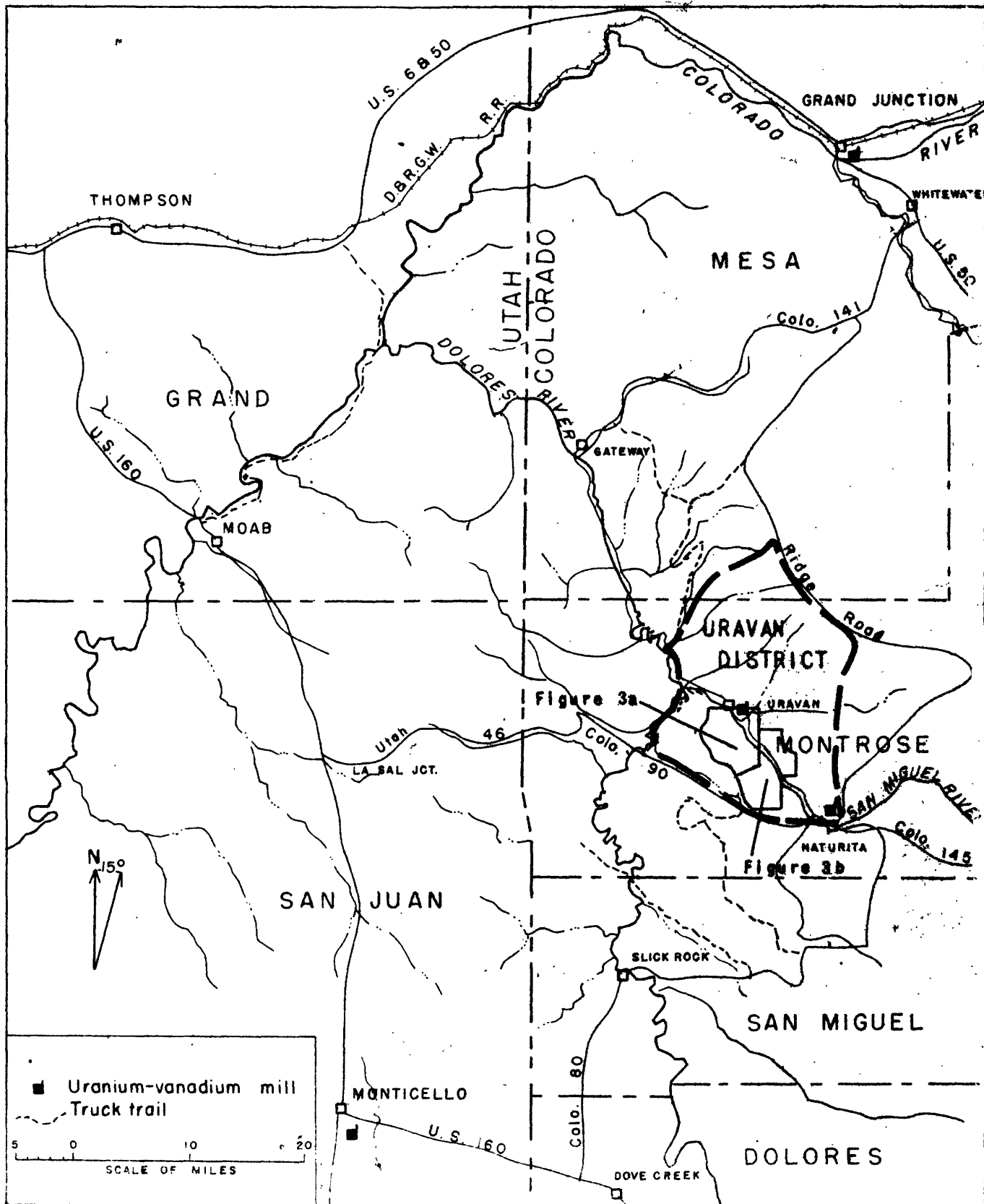


Figure 1.--INDEX MAP OF PART OF THE COLORADO PLATEAU SHOWING LOCATION OF FIGURES 3a AND 3b IN THE URAVAN DISTRICT, MONTROSE COUNTY, COLO.



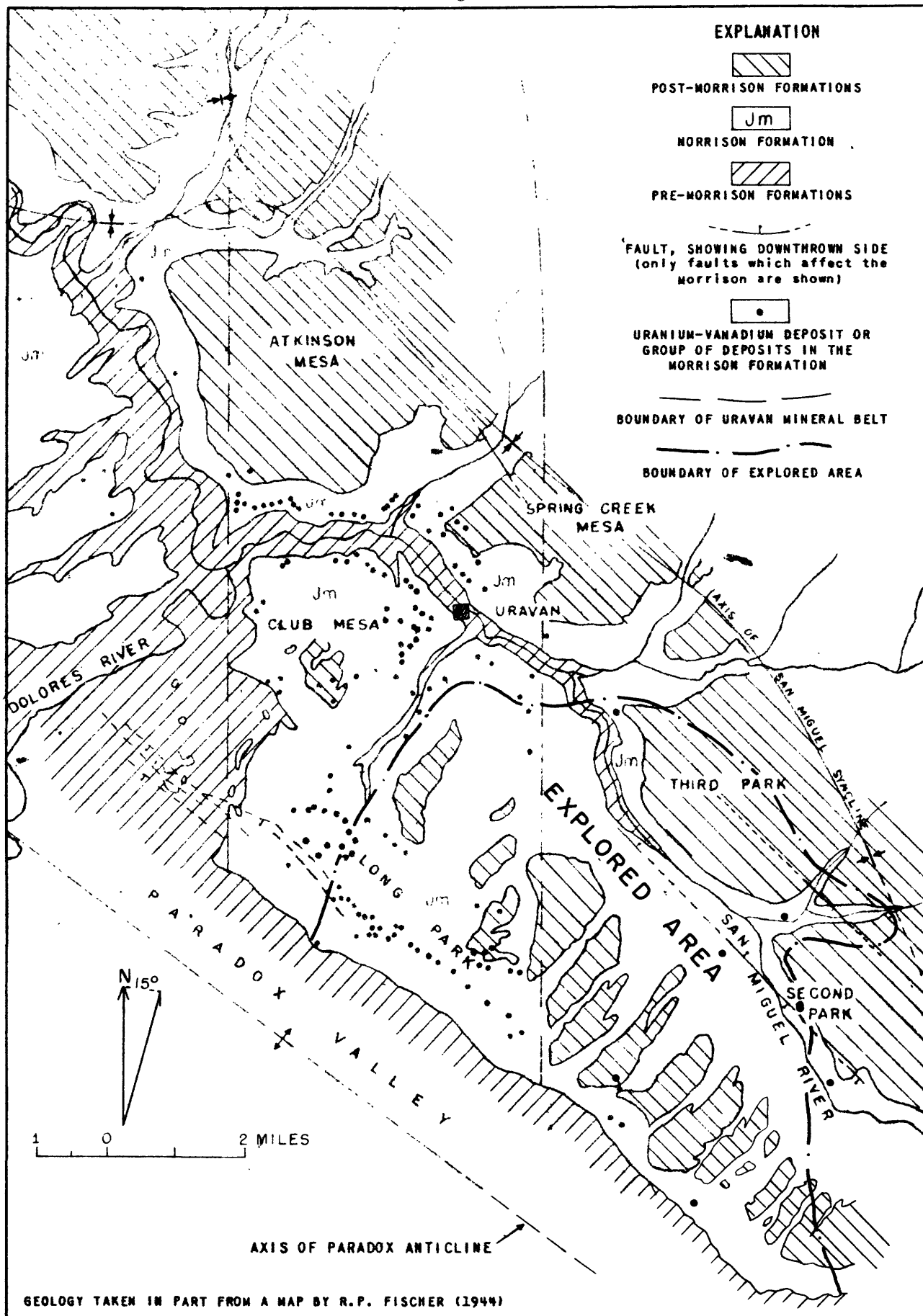


FIGURE 2.—SIMPLIFIED GEOLOGIC MAP OF THE SOUTHERN PART OF THE URAVAN DISTRICT, SHOWING THE BOUNDARY OF THE EXPLORED AREA DESCRIBED IN THIS REPORT, MONTROSE COUNTY, COLO.



Altitudes in the southern part of the Uravan district range from about 5,000 feet along the San Miguel River to about 7,000 feet along the northeast rim of Paradox Valley. The area is in the youthful stage of the erosional cycle. Steep canyons and high mesas make access difficult in some places. Vegetation consists of juniper and pinyon on the rock outcrops and sage on alluvial flats. The climate is semiarid. The nearest dependable source of water is the San Miguel River, which flows northwest through the northeast part of the explored area.

Access to drill sites and mines is provided by a network of semi-improved and unimproved secondary roads from Uravan and from Colorado Highways 90 and 141, south of Uravan (fig. 1). The Union Carbide Nuclear Company mill at Uravan and the Vanadium Corporation of America mill 2 miles west of Naturita are the closest processing plants (fig. 1).

About 80 percent of the explored area is covered by mining claims; the remainder is public land that has been withdrawn by the Government from mineral entry and includes three blocks of Government-leased ground.

Known production of uranium-vanadium ore through September 30, 1955, from the southern part of the Uravan district totals about 444,500 short tons averaging 0.33 percent U_3O_8 and 1.93 percent V_2O_5 (table 1). All but about 100 short tons of the ore produced is from mines in the Long Park area. The production by mining claims of uranium-vanadium ore from the southern part of the Uravan district between February 1951 and September 1955 is listed in table 2. Ore was first produced in 1911 when the Standard Chemical Company began mining and milling for radium. These operations continued until 1923 when a drop in the market price of radium caused a general shutdown on the Colorado Plateau. Mining and milling were renewed



OFFICIAL USE ONLY

Table 1.--Production of uranium-vanadium ore from the southern part of the Uravan district, Montrose County, Colo.; 1911 - September 1955.

Period	Ore (short tons)	Grade in percent	
		U ₃ O ₈	V ₂ O ₅
1911 - 1945 <u>a/</u>	213,477	0.30 <u>b/</u>	1.77
1946 - 1947	No data (No significant production)		
1948 - Jan. 1951 <u>c/</u>	59,095 <u>d/</u>	0.36	2.57
Feb. 1951 - Sept. 1955 <u>e/</u>	171,922	0.35	1.92
Rounded total and weighted averages	444,500	0.33	1.93

a/ Data from Smith (1946).

b/ Estimated on the basis of a 1:6 ratio of U₃O₈:V₂O₅.

c/ Data from Stephens and Ekren (1952).

d/ Includes 15,375 short tons produced from Bitter Creek group of claims and not reported by Stephens and Ekren (1952).

e/ Data from the Grand Junction Operations Office, Production Division, U. S. Atomic Energy Commission, Grand Junction, Colorado.



OFFICIAL USE ONLY

Table 2.--Production by mining claim of uranium-vanadium ore from the southern part of the
Uravan district, Montrose County, Colo.; February 1951 - September 1955^{1/}.

Mining Claim	Ore (short tons)	Percent ^{2/}		Pounds ^{3/}	
		U ₃ O ₈	V ₂ O ₅	U ₃ O ₈	V ₂ O ₅
Bagger	57.51	0.06	0.54	65	618
Bitter Creek	11,216.79	0.24	2.29	54,244	514,481
Black Dinah	361.09	0.20	1.59	1,444	11,483
Blackfoot	805.36	0.28	1.59	4,505	25,666
C. F. C.	2,204.56	0.36	2.00	15,812	88,399
Coloradium	1,331.29	0.40	2.13	10,520	56,694
Cripple Creek	113.20	0.33	2.68	745	6,068
Dan Patch	161.35	0.69	2.49	2,242	8,030
Donald L	16,717.83	0.40	2.04	132,891	682,096
Double Jack No. 1	96.04	0.19	1.35	359	2,600
Dusty	1,249.11	0.39	1.65	9,730	41,186
Fairy King	1.28	2.54	1.68	65	43
Firecracker	670.35	0.44	2.32	5,851	31,056
First National Bank	6,620.86	0.35	1.49	46,047	197,885
Florence Nellie	233.11	0.37	1.66	1,725	7,739
45 - 90	17.10	0.27	1.94	92	663
Good Hope	502.54	0.33	2.20	3,326	22,149
Great Western	3,567.39	0.32	1.43	22,698	101,791
Guadalcanal	761.01	0.40	2.31	6,128	35,167
Henry Clay	2,655.05	0.47	2.20	25,120	116,873
Hidden Basin	7,500.30	0.33	1.43	49,426	214,666
Honeymoon	3,057.98	0.38	1.66	23,404	101,767
Long Park No. 1	14,571.22	0.39	2.90	113,228	844,285
Long Park No. 6	13,415.87	0.43	1.79	115,271	480,459
Long Park No. 10	1,215.24	0.32	1.69	7,778	41,075
Long Park No. 12	5,348.03	0.47	2.00	49,818	214,107
Long Park No. 13	75.71	0.37	2.08	560	3,150
Maggie C	350.48	0.99	3.64	6,919	25,494

^{1/} Data from the Production Division, Grand Junction Operations Office, U. S. Atomic
Energy Commission, Grand Junction, Colo.

^{2/} Calculated from tonnage of ore and recoverable oxide as listed in U. S. Atomic Energy
Commission records.

^{3/} Pounds of recoverable U₃O₈ and V₂O₅.

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 2.--Production by mining claim of uranium-vanadium ore from the southern part of the Urean district, Montrose County, Colo.; February 1951 - September 1955^{1/} --Continued.

Mining Claim	Ore (short tons)	Percent ^{2/}		Pounds ^{3/}	
		U ₃ O ₈	V ₂ O ₅	U ₃ O ₈	V ₂ O ₅
Media	176.79	0.37	1.73	1,313	6,102
Mineral Park No. 5	1,338.52	0.39	2.62	10,390	70,061
Mining Lease No. 14	6,544.30	0.29	2.07	38,497	270,746
Mining Lease No. 15	195.59	0.50	1.77	1,959	6,933
Mining Lease No. 23	8,266.62	0.29	1.54	47,988	255,040
Moonbeam	4,662.70	0.37	2.07	34,828	192,691
Naturita No. 4	5.49	0.08	0.89	9	98
Naturita No. 11	9.75	0.16	1.62	31	315
Naturita No. 24	31.15	0.08	0.85	52	527
Paradox Belle	12.18	0.64	2.11	157	515
Paradox View	25.42	0.66	4.02	336	2,044
Paradox View No. 1	11.44	2.40	23.40	550	5,355
Paradox View No. 2	10.87	0.38	2.46	83	535
Phonograph	10.96	0.34	1.53	75	335
Production	4,585.67	0.39	1.64	35,484	150,278
Rattlesnake	1,463.22	0.39	1.80	11,366	52,744
Rattlesnake No. 1	60.40	0.41	2.27	494	2,737
Rattlesnake No. 2	60.24	0.35	2.22	423	2,678
Red Fox	30.13	0.21	1.25	125	756
Republican	24,926.94	0.34	1.43	171,878	712,422
St. Patrick	5,293.09	0.29	1.10	30,935	116,697
Sphinx	1,971.81	0.37	1.73	14,461	68,116
TNT No. 1	1,246.07	0.33	1.72	8,202	42,797
TNT No. 3	91.41	0.45	1.57	826	2,878
Triangulation	5,516.48	0.32	2.38	35,173	262,640
Tripod	930.59	0.37	2.10	6,903	39,154
Valley View	10.66	0.11	1.31	23	279
Vanadium King	3,800.47	0.32	3.57	24,211	271,707
Virgin No. 3	3,060.57	0.26	1.64	15,997	100,261
Whitney	2,694.58	0.25	1.80	13,518	96,785
Totals and weighted averages .	171,921.76	0.35	1.92	1,216,300	6,609,916

in 1936 for the production of vanadium. By 1944 mining tapered off because of the decreasing demand for ferro-vanadium alloys, and very little ore was produced until 1948. During the winter of 1949-50, the mill at Uravan was renovated by the United States Vanadium Company (now the Union Carbide Nuclear Company), and since that time the mill has been in operation for the recovery of both uranium and vanadium.

Of the 98,094 short tons of ore mined between October 1, 1953, and September 30, 1955, 25,741 short tons came from deposits discovered by U. S. Geological Survey drilling.

Surface drilling and underground drilling and drifting are the methods of exploration used by mining claim owners and lessees to guide mining and to find new deposits. Private industry has done about 1,000,000 feet of surface diamond and wagon drilling in the southern part of the Uravan district.

In addition to the authors, many U. S. Geological Survey geologists contributed to the Survey's exploration program in the southern part of the district. E. B. Ekren made detailed rim studies of the ore-bearing sandstone beds, and H. G. Stephens and W. D. Carter directed exploration work during early stages of the program.

This report summarizes results of the U. S. Geological Survey's exploration program and contains a description of the geology and ore deposits in the southern part of the Uravan district. This report is based on work done on behalf of the Division of Raw Materials of the U. S. Atomic Energy Commission.

GENERAL GEOLOGY

The rocks exposed in the southern part of the Uravan district are gently dipping marine and terrestrial formations ranging in age from late Paleozoic to late Mesozoic. Quaternary alluvium and landslide material, and Pleistocene gravel terraces are present locally. A general description of the sedimentary beds exposed in the Uravan district has been given by Fischer (1942).

All known uranium-vanadium deposits in the district are in the Morrison formation of Late Jurassic age except for one small prospect in a conglomerate bed in the overlying Burro Canyon formation of Cretaceous age. The stratigraphy of the Morrison formation has been described in detail by Craig and others (1955). In the Uravan district the Morrison formation is divided into the Salt Wash member and the overlying Brushy Basin member. Important data relative to this formation in the district are summarized below.

The geology of the southernmost part of the explored area has been reported by Cater (1955a and b), and Cater and others (1955).

Stratigraphy

Morrison formation

Salt Wash member.-- The Salt Wash member averages about 300 feet in thickness and is composed of terrestrial sandstone, siltstone, and mudstone beds. Sandstone beds constitute about 50 percent of the Salt Wash section in the district, although the ratio of sandstone to mudstone and siltstone varies considerably in short distances. Commonly, 3 to 5 sandstone units, each 20 feet or more thick, are prominent along the outcrop of the Salt Wash. These units range from a few hundred feet to several thousand feet in horizontal extent.

The prominent sandstone unit or units in the upper 100 feet of the Salt Wash member contain the largest uranium-vanadium deposits in the district; more than 95 percent of the ore produced has been from this stratigraphic zone. Most of the sandstones in this zone are crossbedded and are medium-fine to fine-grained. In many places they are quartzitic and grade to quartzite. The sandstones are light brown, light gray, light red, or white and contain varying amounts of limonite or disseminated pyrite, and carbonaceous material.

Mudstone and siltstone in contact with upper sandstone units of the Salt Wash are generally red-brown, gray, or green. Carbonaceous material and disseminated pyrite are present in many mudstone and siltstone beds. Thin seams of mudstone and beds of clay-pebble conglomerate are common in the upper sandstone units.

Brushy Basin member.-- The Brushy Basin member averages about 400 feet in thickness in the Uravan district. It consists of variegated shale, claystone, and mudstone beds with some sandstone and conglomeratic sandstone interbeds. Thin beds of quartzitic sandstone and siliceous limestone are also present. The contact between the Brushy Basin member and the underlying Salt Wash member is gradational. The authors have selected the top of the uppermost recognizable Salt Wash sandstone unit as the approximate contact because, in the Uravan district, that unit is the most persistent in the zone of the contact. The "approximate top of the uppermost Salt Wash ore-bearing sandstone" indicated on figures 3a and 3b corresponds to this selected Brushy Basin-Salt Wash contact. The few small uranium-vanadium deposits in the Brushy Basin are in conglomeratic sandstone layers in the bottom half of this member.

Structure

The Uravan district lies between two major northwest-trending structures, the Uncompahgre Plateau uplift to the northeast, and the Paradox salt anticline to the southwest. Between these structures is the San Miguel syncline (fig. 2), which strikes northwest through the central part of the district. In most of the district the beds dip about 5° or less toward the axis of the San Miguel syncline; however, high on the flanks of major folds the dip steepens sharply to 15° or more, and high-angle strike faults and zones of intensely jointed sandstone strata are common. The best developed joints parallel the strike of the major folds. Another joint set strikes approximately normal to the trend of the major folds.

ORE DEPOSITS

Most uranium-vanadium deposits in the southern part of the Uravan district are in sandstone units in the upper part of the Salt Wash member of the Morrison formation. Mineralized rock in this zone consists mostly of sandstone impregnated with uranium and vanadium minerals. Lesser amounts of uranium and vanadium minerals impregnate mudstone pebbles, films, and seams and impregnate or replace carbonaceous material. Ore bodies range from small irregular masses containing a few tons of ore to large tabular or lens-shaped masses containing several thousands of tons of ore. The mineralized rock lies essentially parallel to the sandstone beds but does not follow the beds in detail. Uranium-vanadium ore and the habits of ore bodies in the upper part of the Salt Wash are described in detail by Fischer (1942).

A small outcrop of mineralized conglomerate has been prospected in the Burro Canyon formation in the Bertie's Beauty No. 1 mining claim (fig. 3b claim index No. 375). Some carnotite staining and sparse, disseminated vanadium clay minerals are present.

A few small deposits have been found in sandstone and conglomeratic sandstone beds in the bottom part of the Brushy Basin member. Brushy Basin deposits have been mined on the Firecracker (fig. 3a claim index No. 199), the Double Jack No. 1 (fig. 3b claim index No. 292), the Merry Widow (fig. 3a claim index No. 91), and the Naturita Nos. 11 and 24 mining claims (fig. 3b claim index Nos. 465 and 478 respectively). Most of the reserves found by U. S. Geological Survey drilling in block J (figs. 3a and 7) and all of the reserves in block Z (fig. 3b and fig. 4 section E-E') are in the Brushy Basin. Manganese minerals are commonly associated with uranium and vanadium minerals in most Brushy Basin deposits.

Small but generally high-grade uranium-vanadium deposits are present in lower sandstone units of the Salt Wash in the southern part of the Uravan district. Secondary copper minerals, including azurite and malachite, are associated with uranium and vanadium minerals in these deposits but are rare in deposits in upper sandstone lenses of the Salt Wash.

The Uravan mineral belt (Fischer and Hilpert, 1952) strikes north through the western part of the explored area (fig. 2) and contains all but four of the large deposits in the area. The metal ratio of uranium to vanadium in ore produced from the southern part of the Uravan district is about 1:4; this is slightly higher than the 1:5 ratio reported by Brew (1954) as the average for deposits in the Uravan mineral belt.

Mineralogy

In the southern part of the Uravan district most mineralized rock in the upper part of the Salt Wash at or near the surface consists of oxidized uranium and vanadium minerals in light-brown to yellow-brown limonite-stained sandstone.

Except where noted, the uranium and vanadium minerals described below have been reported by Weeks and Thompson (1954) and by Heyl (1954). Carnotite

$K_2(UO_2)_2(VO_4) \cdot 3H_2O$ is the principal oxidized uranium mineral, and gray vanadium hydromica of uncertain composition is the principal oxidized vanadium mineral.

Less abundant uranium and vanadium minerals identified in oxidized ore include

tyuyamunite $[Ca(UO_2)_2(VO_4)_2 \cdot 5-8-1/2H_2O]$, metatyuyamunite $[Ca(UO_2)_2(VO_4)_2 \cdot 3-5H_2O]$, rauvite $[CaO \cdot 2UO_3 \cdot 5V_2O_5 \cdot 16H_2O]$, pascoite $[Ca_2V_6O_{17} \cdot 11H_2O]$, hewettite $[CaV_6O_{16} \cdot 3-9H_2O]$, and hummerite $[K_2Mg_2V_{10}O_{28} \cdot 16H_2O]$.

In general, as the depth to ore increases, the mineralized rock consists of less oxidized uranium and vanadium minerals in light- to dark- gray pyritic sandstone. There is no consistent depth at which these changes take place. The degree of oxidation is dependent on several factors, the most important of which are the proximity or relationship to the ground-water table or to local perched water tables, and the relative porosity and permeability of mineralized beds and enclosing host rock. Uranium minerals in unoxidized sandstone in the southern part of the Uravan district include coffinite $[U(SiO_4)_{1-x}(OH)_{4x}]$ and an undetermined uranium oxide (probably uraninite, $[UO_2]$); vanadium minerals in unoxidized and partly oxidized sandstone include corvusite $[V_2O_4 \cdot 6V_2O_5 \cdot nH_2O(?)]$, montroseite $[VO(OH), \text{ or } (V,Fe)O(OH)]$, and paramontroseite $[VO_2]$.—

/ (A. G. King, written communication, May 1955).

Origin and localization

The source of the uranium and vanadium and the factors that controlled emplacement of ore bodies in the Uravan district, as elsewhere in the Colorado Plateau, remain imperfectly understood. No explanation for these enigmas in the Uravan district are offered at the present time; however, results of detailed rim study, mine mapping, and partial compilation of drill-hole data make apparent several relationships that bear on origin and localization. These relationships were reported by Boardman, Ekren and Bowers (1956) and are summarized below.

Trends of primary sedimentary structures in upper sandstone lenses of the Salt Wash in the southern part of the Uravan district are generally east to southeast. The strike of mineralized fossil logs, and the long axes of the ore bodies and ground appraised as favorable for ore deposits are nearly parallel to the strike of primary sedimentary structures. An en echelon arrangement of ore deposits in the southern part of the district is probably caused by an en echelon arrangement of sedimentary structures.

Although such features as primary sedimentary structures, carbonaceous material, gray or green mudstone, and limonite or pyrite content apparently are related to the localization of most of the ore deposits in the Uravan district, these sedimentary and lithologic features are abundant in many places in adjacent barren sandstone. Chemical and/or physical factors, that controlled the precipitation of uranium and vanadium and the emplacement of the deposits are as yet undetermined.

There is no significant difference in the U_{38} and V_{25} contents of oxidized and relatively unoxidized ore. It is probable, therefore, that there has been essentially no change in uranium-vanadium content by oxidation, and that oxidation has taken place nearly in situ in most deposits.

It is unlikely that the origin and localization of uranium-vanadium deposits in the district are related to fractures. Fractures apparently served as avenues for only secondary migration of small amounts of uranium and vanadium leached from early ore minerals by ground-water solutions. Known faults in the district that cross ore bodies displace the ore layers and some faults contain ore gouge and breccia derived from these layers.

The concept of the Uravan mineral belt (Fischer and Hilpert, 1952) is supported by the results of exploration and geologic studies in the district. The common orientation of ore rolls and fossil logs nearly normal to the trend of the belt in the explored area is believed to be directly related to easterly or southeasterly sedimentary trends. Where sedimentary trends parallel the mineral belt, the orientation of ore rolls and fossil logs is likewise parallel to the belt. Except for four large deposits east of the belt near the Paradox Valley rim, there are only small deposits known outside the belt in the Uravan district. We believe that the belt widens near the northeastern edge of Paradox Valley and that the four large deposits should be included in the belt.

Although the concept of the Uravan mineral belt cannot be seriously questioned, the reasons for its existence and localization are matters of conjecture. The belt represents a zone where favorable geologic environment controlled deposition of ore minerals. The southern part of the Uravan district has been explored as much as 5 miles east of the mineral belt and no lithologic change in the ore-bearing beds has been detected in drill core. The only change noted is a much lower background radioactivity of the ore-bearing and

adjacent beds, as shown on gamma-ray logs of drill holes. In this ground, low background radioactivity is present even where other geologic criteria are appraised as favorable for the proximity of ore. West of the mineral belt in and adjacent to the Uravan district, relationships between uranium-vanadium deposits and the principal ore-bearing Salt Wash beds are unknown because in most places the upper part of the Salt Wash has been removed by erosion.

GEOLOGIC GUIDES TO ORE

Several geologic features are useful in prospecting for uranium-vanadium deposits in the southern part of the Uravan district. These features or guides are commonly associated with ore deposits and with ground near ore deposits. The guides are useful beyond the limits of the individual masses of mineralized rock and thereby provide broader targets than the deposits.

McKay (1955) noted that the most favorable areas in the Uravan district for uranium-vanadium deposits were areas where the persistent upper sandstone stratum of the Salt Wash was predominantly of the channel type and where that stratum was underlain by continuous green-gray mudstone. He observed that ore was localized in scour-and-fill bedded sandstones within favorable areas of lenticular sandstones. The presence of these large-scale guides can be determined by outcrop examination, and they are useful in appraising the relative favorableness of ground in close proximity to the outcrop.

Other geologic features in the vicinity of ore deposits can be recognized in drill core and have been shown by Weir (1952) to be useful small-scale guides to ore in appraising upper sandstone units of the Salt Wash in southwestern Colorado. The following geologic criteria are useful small-scale guides for exploration in the southern part of the Uravan district:

1. The ore-bearing sandstone units are 25 feet or more thick in the vicinity of large ore deposits.
2. The ore-bearing sandstones are dominantly light brown or light gray and have no reddish cast in the vicinity of ore deposits.
3. Mudstone and siltstone in contact with ore-bearing sandstone are green or gray near ore deposits, instead of red or red brown.
4. Ore-bearing sandstone commonly contains abundant limonite spots and stains or disseminated pyrite near ore deposits.
5. Carbonized plant remains are abundant in and near ore deposits.

Although each of these criteria is useful as an ore guide, no single one is persistent enough or sufficiently dependable to be used alone to appraise the relative favorableness of ground. The delimitation of "favorable," "semifavorable," and "unfavorable" ground in the southern part of the Uravan district (figs, 3a and 3b) is based on an evaluation of all geologic data determined from drill core, gamma-ray logs of drill holes, and examination of outcrops of upper sandstone units of the Salt Wash. The classification of the ground describes the relative favorableness for the proximity of minable ore deposits in these units.

In some parts of the explored ground east of the Uravan mineral belt, drill core of the upper sandstone units of the Salt Wash was appraised as favorable because of the presence of small-scale geologic guides listed above. Gamma-ray logs of the drill holes, however, showed the background radioactivity of these sandstone units and enclosing mudstone and siltstone beds to be so low as to preclude the likelihood of ore deposits being near. As a result the ground is classified semifavorable and unfavorable. In one such hole (LP 1308),

the southernmost hole drilled by the U. S. Geological Survey in the district (fig. 3b), the top 16 feet of sandstone in the upper part of the Salt Wash is bituminous and is impregnated with partly dried petroleum of a light or probable paraffin base. The source of the petroleum is unknown, but oil probably migrated into the sandstone along faults a few hundred feet southwest of the drill hole.

Several efforts were made to develop new guides to ore deposits in the southern part of the Uravan district. Isorad maps were compiled of gamma-ray anomalies at the contact of the ore-bearing sandstone beds and overlying and underlying mudstone and siltstone, as well as of maximum gamma-ray anomalies in the ore-bearing sandstone units. An approximate correlation was made between certain isorad values and the boundaries of mineralized ground; however, efforts to find new deposits using gamma-ray data were unsuccessful.

Maps showing the ratio of mudstone to sandstone in the ore-bearing beds were compiled, as were structure contour maps of the tops and bases of these beds. These maps proved helpful in delineating trends of major stream channels and in estimating depths of proposed drill holes but showed no consistent relationship of these features to ore deposits. In the Long Park area, ore deposits may occur in the thickest parts of the ore-bearing sandstone units (reserve block A, fig. 5, and reserve block K, fig. 8), or the deposits may occur along the margin of deep sandstone filled channels where the sandstone beds have thinned appreciably (reserve block B, fig. 6, and reserve block F, fig. 8).

Electric logs were made of several dozen drill holes in and near reserve blocks E. G. and I (fig. 7). The major lithologic units penetrated by these holes could be determined from the logs; however, no useful correlation was apparent between electric log values and favorable ground, weakly mineralized rock, or ore (Black, 1954).

GEOLOGICAL SURVEY EXPLORATION

U. S. Geological Survey exploration in the southern part of the Uravan district was begun on April 21, 1949, in the Long Park area, and was completed on August 20, 1955. During that period 1,400 diamond-drill holes totaling 489,567 feet were completed on six contracts. Of these totals, 1,371 holes totaling 480,775 feet were drilled in the Long Park area; the remaining 29 holes totaling 8,792 feet were drilled on Third Park and adjoining bench and on the Second Park bench (figs. 2, 3a, and 3b). Preliminary drilling results were reported at the end of each contract (Stephens, 1950; Stephens and Newman, 1951; Stephens and Ekren, 1952; Carter, 1953; Bowers, 1954, and Boardman, 1955).

Of the 1,400 holes drilled, 676 penetrated mineralized rock (rock containing 0.02 percent or more U_3O_8 or 0.10 percent or more V_2O_5). Of the holes in mineralized rock, 140 penetrated mineralized rock 1 foot or more thick containing 0.10 percent or more U_3O_8 or 1.0 percent or more V_2O_5 . All but two of the holes in mineralized rock are in the Long Park area.

About 30 percent of the total footage drilled in the southern part of the Uravan district was used in wide-spaced holes (holes spaced more than 500 feet apart) to test unexplored ground and to delineate areas appraised as geologically favorable for the occurrence of ore deposits. About 40 percent of the footage was used in moderate-spaced holes (holes spaced 200 to 500 feet apart) to search for new deposits in ground appraised as favorable for ore, based on the results of wide-spaced drilling. The remaining 30 percent of the footage was used in close-spaced holes (holes spaced less than 200 feet apart) to outline previously discovered deposits. Nearly all close-spaced holes are in areas of reserve blocks. The three phases of drilling were conducted concurrently during each drilling contract. The average depth of holes was about 350 feet.

Except for four holes drilled to test only the mineralized Brushy Basin zone in and near reserve block J (fig. 7, LP 1202, 1203, 1204, and 1231), all holes were drilled to test the ore-bearing sandstone units in the upper part of the Salt Wash. Five widely separated holes were drilled through the Salt Wash member in the Long Park area to obtain geologic information for the complete Salt Wash section. Gamma-ray logs were made of the entire hole or of the bottom 200 or more feet in approximately 93 percent of the total holes drilled.

About 70 percent of the holes were drilled on public land that was withdrawn from mineral entry prior to U. S. Geological Survey exploration; the remaining 30 percent were drilled on mining claims.

Between August 1952 and August 1954, the U. S. Geological Survey, in cooperation with the U. S. Bureau of Mines, drilled five holes in the Long Park area to obtain core for "original-state core studies." The first two of these holes (fig. 6, LP 530, reserve block H; LP 531, reserve block Q) were drilled also as part of the U. S. Geological Survey's exploration project in the Long Park area on the fourth drilling contract, and the physical data from these holes are included in this report. The three subsequent holes were drilled on two separate contracts let especially for the "Original-state core studies" project, and data from these holes are not included in this report. The latest results of these studies on the five holes in the Long Park area are reported by Manger (1955).

RESERVES

Definitions and methods

Indicated and inferred reserves

The terms "indicated" and "inferred" reserves are applied to the uranium- and vanadium-bearing material 1 foot or more thick in the deposits that are known from drill holes. These reserves are subdivided by grade cutoffs, and the methods used in calculating them are explained below.

Reserves that might be classed as measured are included with indicated reserves because the amount is so small as to be nearly negligible.

The erratic variations in thickness and grade of uranium- and vanadium-bearing ores within short distances, and the general lack of abundant sample data for individual reserve blocks preclude calculation of more than a very small amount of measured reserves.

Indicated reserves/ are those for which the grade is computed from drill-hole samples, and for which the tonnage is computed by projections for a reasonable distance on geologic evidence from drill holes. 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.

/ 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.

Because of the variations in thickness and grade of ore and the scarcity of sample data, the indicated reserves in any single reserve block might actually amount to as much as twice the calculated tonnage or as little as one-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 reserve-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 is apt to be higher than for indicated reserves. The possible limit of error in the calculated or estimated grade for both indicated and inferred reserves probably is smaller than the possible limit of error in the tonnage figures. Early in 1953, an appraisal was made by Bush and Stager (1954) of the accuracy of U. S. Geological Survey ore reserve estimates for uranium-vanadium deposits on the Colorado Plateau. The appraisal indicated that for individual deposits the original reserve estimates of both tonnage and grade ranged from large overestimates to very large underestimates. However, the original reserve estimate for the total reserves of all the deposits studied in the Uravan mineral belt was a very small underestimate.

Thickness cutoff.--Although mining practices vary throughout the region as well as with individual operators, under 1955 mining conditions most ore bodies of average grade are being mined to where they pinch to a layer about 1 foot thick. Layers of mineralized rock 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 reserve, and for that reason reserves less than 1 foot thick are not calculated.

Grade cutoffs.--At the present time the deposits are being mined for both uranium and vanadium. In the southern part of the Uravan district the oxides of these metals, U_3O_8 and V_2O_5 , occur in an average ratio of about 1:6 as estimated from production data and assays of U. S. Geological Survey drill core. Within the deposits, however, the two metals are so erratically distributed that a single sample from a mine face or drill core is not necessarily representative of the metal ratio or 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 mineralized rock in the vicinity of this sample must be classed as reserve, even though the sample shows a value for only one metal. The 1951 price schedules (U. S. Atomic Energy Commission, 1951) for ore shows that the V_2O_5 content of ore with the expected metal oxide ratio (1:6) constitutes about one-third of the market value of the ore. Thus both metals must be considered in reserve appraisals in selecting grade cutoffs.

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

material. These two classes are referred to as Class I and Class II reserves respectively. Indicated and inferred reserves of Class II material include all such reserves of Class I material.

Reserves are not classified in this report according to their availability for mining, although consideration was given to the 1955 mining and milling practices in selecting the thickness and higher grade (Class I) cutoffs. Class I reserve figures therefore, correspond as nearly as possible to the tonnage and grade of the material that might actually be mined from these deposits under 1955 conditions.

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 thickens or thins uniformly between drill holes. 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.

In the Long Park area, which contains all of the reserves estimated in the southern part of the Uravan district, indicated reserves are projected between drill holes that are not more than 250 feet apart, if reserve layers penetrated by these holes can be correlated. Indicated reserves are not projected more than 40 feet beyond sample points, where the edge of the reserve mass 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 reserve mass, as determined by geologic evidence and interpretation.

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

Calculation of grade.--The average grade of the indicated and inferred reserves is calculated by weighting the assay values according to the thickness of all samples that qualify as reserves within the grade and thickness limits. As strict grade cutoffs are 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 be eventually mined from them, because of unavoidable dilution of the ore with waste and low-grade material during mining. The tonnage assigned to these blocks, however, should be somewhat lower than the tonnage mined from them, because of the increment of waste and low-grade material.

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 reserves within the reserve blocks are not shown on the figures accompanying this report though the mineralized ground that contains the blocks is designated by block letters. Where mineralized layers overlap, even though they contain two or more masses of reserves, a single block letter is assigned, and the total tonnage of these masses, as well as their weighted average grade, is calculated.

Potential reserves

In addition to the known deposits, other deposits are probably present that 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. The thickness and grade cutoffs used in estimating potential reserves are the same as those used in calculating Class I indicated and inferred reserves.

Long Park area reserves

Indicated and inferred reserves

Indicated and inferred reserves found by U. S. Geological Survey drilling in the southern part of the Uravan district are in the Long Park area. A summary of Class I and Class II indicated and inferred reserves found by U. S. Geological Survey drilling in the Long Park area is given in table 3. The calculated tonnage and grade of Class I and Class II indicated and inferred reserves for each reserve block are shown in table 4. The location of the reserve blocks and several geologic sections showing the position of the mineralized rock in the blocks are shown on figures 3 through 8. About 80 percent of the Class I reserves are in 12 reserve blocks that are partly or entirely in public land. These reserve blocks have been described previously in preliminary reserve statements (Bieber, 1954; Bieber and Bowers, 1954; Boardman, 1954; Bowers, 1955a;



OFFICIAL USE ONLY

Table 3.--Summary of indicated and inferred reserves found by U. S. Geological Survey drilling,
Long Park area, Uravan district, Montrose County, Colo.

Reserve	Grade cutoff	Short tons	Percent		Pounds	
			U ₃ O ₈	V ₂ O ₅	U ₃ O ₈	V ₂ O ₅
Indicated	0.10% U ₃ O ₈ or 1.0% V ₂ O ₅	168,300	0.31	2.13	1,043,500	7,169,600
	0.05% U ₃ O ₈ or 0.50% V ₂ O ₅	294,500	0.23	1.60	1,354,700	9,424,000
	0.10% U ₃ O ₈ or 1.0% V ₂ O ₅	82,500	0.30	1.85	495,000	3,052,500
Inferred	0.05% U ₃ O ₈ or 0.50% V ₂ O ₅	121,100	0.21	1.35	508,600	3,269,700

— Figures rounded to nearest 100 pounds

OFFICIAL USE ONLY



OFFICIAL USE ONLY

Table 4.--Indicated and inferred reserves^{1/} estimated for reserve blocks
found by U. S. Geological Survey drilling, Long Park area,
Uravan district, Montrose County, Colo.

Block No.	Location (claims)	INDICATED				INFERRED			
		Grade cutoff 0.10% U ₃ O ₈ or 1.0% V ₂ O ₅		Grade cutoff 0.05% U ₃ O ₈ or 0.50% V ₂ O ₅		Grade cutoff 0.10% U ₃ O ₈ or 1.0% V ₂ O ₅		Grade cutoff 0.05% U ₃ O ₈ or 0.50% V ₂ O ₅	
		Short tons	Percent U ₃ O ₈ V ₂ O ₅	Short tons	Percent U ₃ O ₈ V ₂ O ₅	Short tons	Percent U ₃ O ₈ V ₂ O ₅	Short tons	Percent U ₃ O ₈ V ₂ O ₅
A	Public land Corporation No. 1 Dew Drop No. 1 Hidden Basin Nos. 1, 3,4 Hot Box Nos. 1,2 TNT No. 3 W.H.P.	35,500	0.20 1.56	72,100	0.17 1.23	21,000	0.20 1.25	32,000	0.11 0.98
B	Public land Virgin No. 3	17,900	0.27 2.10	37,600	0.18 1.48	1,500	0.27 2.10	3,300	0.18 1.48
C	Public land ^{2/} Dusty	2,500	0.16 1.68	14,600	0.20 1.51	5,800	0.29 2.20	700	0.05 2.08
D	Public land TNT No. ^{2/}	5,800	0.54 2.89	11,000	0.34 1.93			1,600	0.34 1.93
E	Public land Guadalcanal	7,600	0.44 1.66	9,500	0.36 1.47	2,800	0.44 1.66	5,100	0.25 1.17
F	Public land	10,200	0.23 1.68	20,600	0.20 1.34	1,500	0.39 1.91	1,400	0.19 1.45
G	Public land Mineral Park No. 1	6,600	0.24 2.06	12,200	0.19 1.20	6,100	0.24 1.92	10,600	0.20 1.21
H	Public land First National Bank Second National Bank	4,700	0.23 1.70	5,400	0.20 1.55	6,900	0.23 1.70	13,300	0.14 1.19
I	Public land Guadalcanal Mineral Park No. 1	20,900	0.49 3.02	23,000	0.45 2.76	8,400	0.46 2.37	10,200	0.38 2.11
J	Public land	4,900	0.34 2.74	5,700	0.30 2.45	650	0.27 1.88	650	0.27 1.88
K	Public land	21,800	0.20 0.91	39,800	0.14 0.77	5,700	0.34 0.50	10,300	0.25 0.57
L	Public land	600	0.30 2.21	4,600	0.24 1.95	4,700	0.29 2.18	3,100	0.23 1.91
M	Public land Vanadium King No. 6					5,600	0.30 3.00	5,600	0.30 3.00
N	Fifth National Bank Long Park No. 9					1,500	0.01 1.02	2,700	0.18 1.04
P	TNT No. 3					800	0.15 1.03	1,500	0.09 0.96

^{1/} Reserves of 1,000 short tons or more rounded to the nearest 100 short tons. Reserves of less than 1,000 short tons rounded to the nearest 50 short tons.

^{2/} Estimates revised from those given by Stephens and Cramer (1951).

OFFICIAL USE ONLY

Table 4.--Indicated and inferred reserves^{1/} estimated for reserve blocks found by U. S. Geological Survey drilling, Long Park area, Uravan district, Montrose County, Colo.--Continued.

Block No.	Location (claims)	INDICATED						INFERRED					
		Grade cutoff			Grade cutoff			Grade cutoff			Grade cutoff		
		0.10% U ₃ O ₈ or			0.05% U ₃ O ₈ or			0.10% U ₃ O ₈ or			0.05% U ₃ O ₈ or		
		1.0% V ₂ O ₅			0.50% V ₂ O ₅			1.0% V ₂ O ₅			0.50% V ₂ O ₅		
		Short	Percent		Short	Percent		Short	Percent		Short	Percent	
		tons	U ₃ O ₈	V ₂ O ₅	tons	U ₃ O ₈	V ₂ O ₅	tons	U ₃ O ₈	V ₂ O ₅	tons	U ₃ O ₈	V ₂ O ₅
Q	Public land							550	1.00	2.10	2,700	0.22	0.89
R	Vanadium King No. 6 Virgin No. 3							1,800	1.15	5.72	2,600	0.81	4.16
S	Public land Wednesday Thursday	20,600	0.37	3.20	27,000	0.31	2.62	2,700	0.37	3.20	2,700	0.37	3.20
T	Purple Sage No. 1 Purple Sage No. 2 Purple Sage No. 3							900	0.13	1.66	900	0.13	1.66
U	Sandy Vanadium No. 6 Vanadium Queen No. 3 Public land	3,900	0.59	3.42	5,800	0.40	2.34	700	0.14	3.65	1,000	0.11	2.83
V	Public land							1,200	0.26	0.28	1,900	0.20	0.24
W	Firecracker Public land	4,800	0.24	3.42	5,600	0.21	3.05						
X	Public land							550	0.29	1.00	550	0.29	1.00
Y	Ruth K							600	0.26	0.25	1,100	0.15	0.16
Z	Flat Top No. 2 Flat Top No. 4							550	0.42	1.00	550	0.42	1.00
AA	First National Bank										1,700	0.07	0.30
BB	Blackbird										1,600	0.01	0.55
CC	Public land Radium King No. 3										550	0.02	0.80
DD	Public land										1,200	0.09	0.30
	Totals	168,300	0.31	2.13	294,500	0.23	1.60	82,500	0.30	1.85	121,100	0.21	1.35

Bowers, 1955b; Ekren, 1954; Litsey, 1955; Newman, 1951; Stephens, 1951; and Stephens and Cramer, 1951). Four of these reserve blocks are in the three U. S. Atomic Energy Commission leases (figs. 3a, 5, and 6). Approximately 75 percent of the total reserves are in public land; the remaining 25 percent are in mining claims.

Table 5, at the back of this report, lists assay data both for holes in mineralized rock in individual reserve blocks and for other holes in mineralized rock.

Potential reserves

Class I potential reserves in deposits not yet found, total about 110,000 short tons containing about 0.25 percent U_3O_8 and 1.50 percent V_2O_5 . Most of these potential reserves are predicted in deposits ranging in size from 1,000 to 20,000 short tons in the eastern part of the belt of favorable ground through Long Park (figs. 3a and 3b). A few small deposits, mostly 1,000 short tons or less, are believed to lie in ground outside of this favorable belt in the Long Park area. Several deposits of a few hundred short tons or less are predicted in the explored area east of the San Miguel River; nearly all of these deposits are expected in Brushy Basin beds.

PLANS AND RECOMMENDATIONS

No additional exploration is planned by the U. S. Geological Survey in the southern part of the Uravan district. Geologic data from U. S. Geological Survey drill holes in all areas in the Uravan district will be compiled on maps for publication. In addition, a U. S. Geological Survey bulletin will be prepared on the geology and ore deposits in the district.

Drilling from the surface by claim owners and lessees is recommended in the belt of favorable ground through Long Park to find new ore bodies. Although the depth to the ore-bearing beds in places is about 600 feet, a few large ore bodies are expected in the eastern part of the favorable belt, where moderate- and wide-spaced drill holes have penetrated strongly mineralized rock too thin to be classed as reserve. Underground drilling and drifting by claim owners and lessees is recommended in mine workings in favorable ground to develop additional reserves and to find new ore bodies.

LITERATURE CITED

- Black, R. A., 1954, District geophysical studies, in Geologic investigations of radioactive deposits, Semiannual Progress Report, December 1, 1953 to May 31, 1954: U. S. Geol. Survey TEI-440, p. 45-47, issued by U. S. Atomic Energy Comm. Tech. Inf. Service Extension, Oak Ridge.
- Boardman, R. L., Ekren, E. B., and Bowers, H. E., 1956, Sedimentary features of upper sandstone lenses of the Salt Wash member and their relation to uranium-vanadium deposits in the Uravan district, Montrose County, Colorado: U. S. Geol. Survey Prof. Paper 300, p. 221-226.
- Cater, F. W., Jr., 1955a, Geology of the Naturita NW quadrangle, Colorado: U. S. Geol. Survey Geologic Quadrangle Map GQ 65.
- _____, 1955b, Geology of the Davis Mesa quadrangle, Colorado: U. S. Geol. Survey Geologic Quadrangle Map GQ 71.
- Cater, F. W., Jr., Butler, A. P., Jr., and McKay, E. J., 1955, Geology of the Uravan quadrangle, Colorado: U. S. Geol. Survey Geologic Quadrangle Map GQ 78.
- Craig, L. C., Holmes, C. N., Cadigan, R. A., Freeman, F. L., Mullens, T. E., and Weir, G. W., 1955, Stratigraphy of the Morrison and related formations, Colorado Plateau region, a preliminary report: U. S. Geol. Survey Bull. 1009-E, p. 125-168..
- Fischer, R. P., 1942, Vanadium deposits of Colorado and Utah, a preliminary report: U. S. Geol. Survey Bull. 936-P, p. 363-394.
- _____, 1944, Simplified geologic map of the vanadium region of southwestern Colorado and southeastern Utah: U. S. Geol. Survey Strategic Minerals Inv. Prelim. Map 3-226.
- Fischer, R. P., and Hilpert, L. S., 1952, Geology of the Uravan mineral belt: U. S. Geol. Survey Bull. 988-A, p. 1-13.
- Manger, G. E., 1955, Original-state core studies in Geologic investigations of radioactive deposits, Semiannual progress report, June 1 to November 30, 1955: U. S. Geol. Survey TEI-590, p. 141-147, issued by U. S. Atomic Energy Comm. Tech. Inf. Service Extension, Oak Ridge.
- McKay, E. J., 1955, Criteria for outlining areas favorable for uranium deposits in parts of Colorado and Utah: U. S. Geol. Survey Bull. 1009-J, p. 265-282.
- U. S. Atomic Energy Commission, June 1951, Domestic Uranium program, Circ. 6.
- Weeks, A. D., and Thompson, M. E., 1954, Identification and occurrence of uranium and vanadium minerals from the Colorado Plateaus: U. S. Geol. Survey Bull. 1009-B, p. 13-62.
- Weir, D. B., 1952, Geologic guides to prospecting for carnotite deposits on Colorado Plateau: U. S. Geol. Survey Bull. 988-B, p. 15-27.

UNPUBLISHED REPORTS

- Bieber, P. P., 1954, Preliminary reserve statement 41, reserve block H, Long Park, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 778, 8 p.
- Bieber, P. P., and Bowers, H. E., 1954, Preliminary reserve statement 34, reserve block E, Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 686, 9 p.
- Boardman, R. L., 1954, Preliminary reserve statement 42, reserve block G, Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 779, 8 p.
- Boardman, R. L., 1955, Preliminary report on diamond-drill exploration in the southern part of the Uravan district, including the Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 885, 13 p.
- Bowers, H. E., 1954, Interim report on diamond-drill exploration and plans for additional drilling in the Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 771, 6 p.
- _____, 1955a, Preliminary reserve statement 46, reserve block I, Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 839, 13 p.
- _____, 1955b, Preliminary reserve statement 47, reserve block J, Long Park area, Montrose County Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 886, 8 p.
- Brew, D. A., 1954, Exploration for uranium deposits in the Atkinson Mesa area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Inv. Rept. 290, 63 p. See p. 9.
- Bush, A. L., and Stager, H. K., 1954, Appraisal of the accuracy of U. S. Geological Survey ore reserve estimates for uranium-vanadium deposits on the Colorado Plateau: U. S. Geol. Survey Trace Elements Inv. Rept. 288, 36 p. See p. 5-6.
- Carter, W. D., 1953, Interim report on diamond-drill exploration and plans for additional drilling in the Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 581, 6 p.
- Ekren, E. B., 1954, Preliminary reserve statement 40, reserve block F, Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 722, 7 p.
- Heyl, A. V., 1954, Zoning of the Bitter Creek vanadium-uranium deposit, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Inv. Rept. 443, 27 p. See p. 14-18.

- Litsey, L. R., 1955, Preliminary reserve statement 48, reserve blocks K and L, Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 887, 14 p.
- Newman, W. L., 1951, Preliminary reserve statement 11, reserve block A, Long Park vicinity, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 187.
- Smith, C. T., 1946, Report on Uravan district, San Miguel Plateau area, Colorado: Union Mines Development Corporation unpublished report.
- Stephens, H. G., 1950, Diamond-drill exploration in Long Park and vicinity, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 110, 12 p.
- _____ 1951, Preliminary reserve statement 12, reserve block B, Long Park vicinity, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo Rept. 188.
- Stephens, H. G., and Cramer, M. A., 1951, Preliminary reserve statement 17, reserve blocks C and D, Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 193.
- Stephens, H. G., and Ekren, E. B., 1952, Preliminary report on diamond-drill exploration and plans for additional drilling in the Long Park area, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 297, 7 p.
- Stephens, H. G., and Newman, W. L., 1951, Preliminary report on diamond-drill exploration and plans for additional drilling in Long Park and vicinity, Montrose County, Colorado: U. S. Geol. Survey Trace Elements Memo. Rept. 201, 7 p.

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.

Geological Survey exploration, 1949-55. Assays by the Geological Survey. Samples in sandstone and mudstone.

Rock units containing less than 0.020 percent U₃O₈, less than 0.020 percent equivalent U₃O₈, and less than 0.10 percent V₂O₅, as determined by assay of drill core, are considered to be barren. Barren holes and rock units are omitted from this table.

Gamma-ray data obtained by probing drill holes with radiometric logging unit. Radioactivity expressed as percent equivalent U₃O₈. Values less than 0.020 percent eU₃O₈ are omitted from this table. These data are of doubtful reliability.

Assay data listed under blocks designated alphabetically are within the block of calculated reserves discussed in this report.

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

Collar elevations and hole locations obtained by plane-table survey and transit traverse methods.

Undet Undetermined

e Equivalent

< Less than

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		CaCO ₃	Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅					
Block A										
LP-36A (6455)	259.4	260.5	1.1	0.017	0.23	0.58	Not probed			
	260.5	261.3	0.8	0.003	0.76	0.42				
	262.1	262.7	0.6	0.018	0.23	0.39				to
	262.7	263.1	0.4	0.032	1.04	0.25				
LP-41 (6401)	201.2	201.5	0.3	0.014	1.14	0.38	Not probed			
	201.5	201.9	0.4	0.84	5.95	0.31				
	201.9	202.2	0.3	0.012	0.40	0.35				
	203.1	203.4	0.3	0.009	0.66	3.80				
	204.8	205.6	0.8	0.002	0.21	4.00				
	228.5	229.5	1.0	0.035	0.13	4.40				
LP-64 (6487)	274.9	277.9	3.0	0.002	0.29	5.10	Not probed			
	278.9	281.0	2.1	0.006	0.30	2.04				
	281.2	281.9	0.7	0.015	1.35	0.28				
	281.9	284.7	2.8	0.042	0.50	5.0				
	284.7	285.1	0.4	0.023	0.28	4.0				
LP-65 (6416)	235.3	235.6	0.3	0.004	0.35	2.6	Not probed			
	235.6	235.9	0.3	0.26	2.33	0.7				
	235.9	236.2	0.3	0.25	0.72	1.61				
	236.2	236.3	0.1	0.035	0.36	3.0				
	236.3	236.8	0.5	0.008	0.29	2.8				

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data						
	Depth in feet From	To	Thickness (feet)	Percent U ₃ O ₈	Percent V ₂ O ₅	CaCO ₃	Percent eU ₃ O ₈	Depth in feet From	To	Thickness (feet)
Block A-Continued										
LP-66 (6406)	243.3	243.9	0.6	0.018	0.17	4.9	Not probed			
	216.0	217.0	1.0	0.035	1.19	0.28	Not probed			
	221.7	222.0	0.3	0.019	0.24	1.78				
	222.2	222.5	0.3	0.008	0.16	2.7				
LP-68 (6392)	226.7	227.8	1.1	0.018	0.29	0.72				
	240.2	240.9	0.7	0.021	0.18	5.7				
	242.3	242.8	0.5	0.01	0.25	5.1				
	245.2	245.9	0.7	0.019	0.14	3.8				
LP-70 (6405)	204.3	204.7	0.4	0.079	0.82	0.5	Not probed			
	204.7	205.3	0.6	0.14	0.41	1.60				
	205.3	205.9	0.6	0.41	3.94	0.14				
	205.9	206.5	0.6	0.16	1.03	0.11				
	206.5	207.0	0.5	0.11	1.24	0.12				
	207.0	207.5	0.5	0.048	1.01	0.47				
	207.5	208.0	0.5	0.017	2.11	0.14				
	254.3	255.0	0.7	0.003	1.62	1.99				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent		Percent ^{238}U	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5		CaCO ₃	From	
Block A-Continued									
LP-71A (6417)	211.4	211.8	0.4	0.005	0.14	3.0	Not probed		
	212.9	215.0	2.1	0.006	0.27	1.46			
	215.3	216.3	1.0	0.35	1.46	1.21			
	216.3	217.5	1.2	1.67	2.33	1.27			
	217.5	218.5	1.0	0.28	0.56	0.63			
	218.5	219.8	1.3	0.07	0.23	5.6			
	219.8	220.0	0.2	0.01	0.22	11.0			
	220.0	220.4	0.4	0.047	0.18	8.0			
	220.4	220.7	0.3	0.12	0.34	9.1			
	220.7	221.1	0.4	0.047	0.20	10.3			
	222.5	222.8	0.3	0.012	0.11	0.014			
LP-72 (6465)	287.9	288.4	0.5	0.002	1.16	1.2	Not probed		
	288.4	288.7	0.3	0.46	2.82	0.24			
	288.9	289.1	0.2	1.65	4.07	0.32			
	289.1	289.3	0.2	0.02	0.97	0.06			
LP-75 (6536)	319.0	321.8	2.8	0.033	0.10	2.33			
	329.0	331.7	2.7	0.007	0.13	3.9			
	369.6	371.2	1.6	0.029	0.44	5.4	Not probed		
	372.3	372.6	0.3	0.005	0.21	13.3			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Thickness (feet)
	From	To		U_3O_8	From	To	
Block A--Continued							
LP-77 (6470)	259.7	260.4	0.7	0.011	Not probed		
	260.4	260.8	0.4	0.12			
	260.8	261.1	0.3	0.32			
	261.1	261.8	0.7	0.066			
	261.8	262.7	0.9	0.01			
	262.7	263.2	0.5	0.033			
LP-79 (6436)	218.8	220.9	2.1	0.019	Not probed		
	220.9	222.7	1.8	0.034			
	222.7	225.5	2.8	0.015			
	225.5	227.7	2.2	0.011			
	227.7	229.4	1.7	0.027			
	229.9	231.1	1.2	0.011			
LP-83 (6415)	228.2	229.0	0.8	0.005	Not probed		
	229.0	230.1	1.1	0.017			
LP-84 (6488)	300.9	301.2	0.3	0.014	Not probed		
	302.2	303.5	1.3	0.023			
LP-85 (6442)	222.5	222.7	0.2	0.10	Not probed		
				4.15			
				0.24			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent		Depth in feet	
	From	To		U ₃ O ₈	V ₂ O ₅	CaCO ₃	From To
Block A--Continued							
LP-91 (6439)	217.9	220.3	2.4	0.024	0.22	0.8	Not probed
	240.6	240.9	0.3	0.06	0.81	0.4	
	240.9	241.4	0.5	0.035	0.70	0.3	
	250.5	251.8	1.3	0.021	<0.10	0.7	
LP-92 (6426)	172.8	174.3	1.5	0.02	0.12	0.3	Not probed
	174.8	175.3	0.5	0.007e	0.15		
	197.2	199.2	2.0	0.026	0.16	1.1	
LP-95 (6417)	199.2	200.5	1.3	0.047	0.44	0.7	0.078 0.17 0.045 0.061
	200.8	201.0	0.2	0.024	<0.10	2.2	
	204.5	207.2	2.7	0.032	0.19	0.2	
	223.9	224.6	0.7	0.007	0.52	0.7	
LP-99 (6454)	241.0	241.5	0.5	0.02	0.34	2.1	0.027
	241.6	241.9	0.3	0.12	1.22	0.8	
	192.5	193.2	0.7	0.019	0.21	1.4	
							191.1 191.9
							205.3 206.1
							206.9 207.8
							209.1 210.0
							247.1 248.0
							0.8 0.9 0.9 0.9
							0.8

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅		From	To	
Block A--Continued									
LP-101 (6411)	216.6	217.0	0.4	0.007e	0.45	1.1	217.6	218.6	1.0
	217.0	218.8	1.8	0.026	0.39	3.7	218.6	219.4	0.8
	218.8	219.8	1.0	0.29	2.40	0.6	219.4	220.3	0.9
	219.8	220.3	0.5	0.13	0.33	3.2			
	220.3	221.3	1.0	0.028	0.35	11.4			
LP-102 (6425)	167.9	169.4	1.5	0.019	0.13	1.4	166.8	167.7	0.9
LP-105 (6432)	228.9	229.1	0.2	0.009	0.69	4.8	169.8	170.5	0.7
	234.4	234.7	0.3	0.011	1.32	1.4			
LP-107 (6421)	195.0	195.3	0.3	0.018	0.12	4.5			
LP-111 (6426)	220.7	220.9	0.2	0.008	0.15	1.6			
LP-122 (6556)	343.9	344.7	0.8	0.009	0.44	4.9	343.9	345.8	1.9
	344.8	345.2	0.4	0.019	0.74	0.2			
	345.2	345.8	0.6	0.033	1.90	0.3	347.3	348.4	1.1
	345.8	347.2	1.4	0.038	4.00	0.2			
	349.0	350.1	1.1	0.024	1.02	0.1			
	364.6	365.0	0.4	0.022	<.010	9.8			

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent	Thickness (feet)
	From	To		$\frac{U_3O_8}{V_2O_5}$	$\frac{CaCO_3}{V_2O_5}$	From	To	
Block A--Continued								
LP-126 (6517)	313.6	314.2	0.6	0.023	0.24	2.9	313.9	314.5
	316.3	319.0	2.7	0.01	0.28	1.2	317.9	319.0
	319.8	322.6	2.8	0.019	0.11	5.0	321.1	321.8
LP-134 (6528)	305.1	306.1	1.0	0.014	0.23	0.2	323.8	325.0
	333.4	336.7	3.3	0.029	0.38	3.2	302.6	303.3
	281.5	281.8	0.3	0.033	<0.10	3.2	333.4	334.3
LP-135 (6502)	283.3	283.5	0.2	0.005	0.17	0.2	0.12	0.9
	289.3	289.8	0.5	0.023	<0.10	1.0	Barren	
LP-141 (6452)	328.8	333.4	0.6	0.15	2.11	0.6	314.5	315.5
	333.4	333.6	1.2	0.068	0.44	0.7	334.3	334.8
	334.6	335.9	1.3	0.020	0.19	1.0	334.8	335.9
LP-142 (6540)	335.9	337.2	1.3	0.14	0.75	4.8	337.3	338.3
	324.2	324.4	0.2	0.007	0.12	3.0	0.21	1.0
							Barren	
LP-146 (6485)								

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.-Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.-Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)	
				U ₃ O ₈	V ₂ O ₅		From	To		
Block A--Continued										
LP-148 (6556)	341.5	342.6	1.1	0.009e	0.19	1.1	342.9	343.8	0.9	47
	342.6	343.7	1.1	0.23	3.13	0.2	348.3	349.4	1.1	
	343.7	344.1	0.4	0.039	0.58	0.2	349.4	350.6	1.2	
	347.3	349.2	1.9	0.72	2.31	0.4	350.6	352.0	1.4	
	349.2	350.7	1.5	0.17	0.54	2.0				
LP-152 (6516)	350.7	351.8	1.1	0.48	2.72	0.2				
	351.8	352.6	0.8	0.13	0.83	0.2				
	352.6	354.7	2.1	0.022	0.31	0.5				
	382.2	383.2	1.0	0.016	0.16	0.5				
	299.8	301.6	1.8	0.027	<0.10	5.7	302.0	303.8	1.8	
LP-155 (6538)	304.4	305.0	0.6	0.016	0.29	1.1	306.4	307.5	1.1	
	328.2	329.4	1.2	0.031	0.22	3.1	328.8	330.2	1.4	
	329.4	330.4	1.0	0.14	1.22	0.5	330.2	331.6	1.4	
	330.4	331.0	0.6	0.11	0.46	2.1	331.6	332.4	0.8	
	331.0	331.7	0.7	1.52	2.78	0.7	332.4	333.4	1.0	
	331.7	333.1	1.4	0.095	0.42	2.1				
	333.1	333.5	0.4	0.93	2.80	0.2				
	333.5	334.5	1.0	0.32	0.17	2.5				
	340.4	341.9	1.5	0.023	<0.10	2.7				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uraivan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅				
Block A--Continued									
LP-158 (6525)	301.9	304.7	2.8	0.031	0.31	0.3	303.5	304.4	0.9
LP-163 (6472)	279.9	280.0	0.1	0.13	3.8	0.2	Barren		
LP-167 (6465)	250.5	251.1	0.6	0.042	0.97	0.1	251.9	253.1	1.2
LP-170 (6531)	322.6	324.3	0.7	0.019	0.16	0.7	195.6	196.6	1.0
	324.3	325.3	1.0	0.059	0.39	0.6	325.0	325.9	0.9
	325.3	325.6	0.3	0.18	0.61	1.4	327.5	328.2	0.7
	325.6	326.1	0.5	0.014	0.14	1.1			
LP-171 (6483)	327.3	327.8	0.5	0.013	0.30	1.3			
	266.3	266.9	0.6	0.072	1.36	0.4	266.6	268.0	1.4
	266.9	267.4	0.5	0.12	0.83	0.4			
LP-177 (6496)	272.4	272.8	0.4	0.007e	0.14	--	174.7	175.9	1.2
	272.8	272.9	0.1	0.20	1.05	0.1	180.2	182.8	2.6
	272.9	277.3	4.4	0.029	0.19	0.8	272.9	273.8	0.9
	277.3	278.5	1.2	0.067	0.40	2.6			
	278.5	278.8	0.3	0.038	0.34	1.4			
							275.4	276.5	1.1
							277.3	279.2	1.9

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)	
				U ₃ O ₈	V ₂ O ₅					CaCO ₃
Block A--Continued										
LP-180 (6488)	312.1	312.2	0.1	0.003e	0.25	3.0	0.025	327.3	329.2	1.9
	328.8	330.0	1.2	0.023	0.23	3.7	0.031	330.4	332.3	1.9
	331.8	332.9	1.1	0.033	<0.10	2.7	0.044	348.3	350.0	1.7
	348.9	351.0	2.1	0.034	0.14	5.7				1.7
LP-187 (6479)	242.5	243.6	1.1	0.028	0.13	5.6	0.12	244.8	246.8	2.0
	244.4	245.7	1.3	0.024	<0.10	3.8	0.060	246.8	247.6	0.8
	245.9	247.3	1.4	0.090	0.82	0.6	0.50	247.6	248.4	0.8
	247.3	249.1	1.8	0.050	0.25	6.6	0.027	249.6	251.3	1.7
	249.1	250.4	1.3	0.15	1.09	0.3				
	250.4	251.7	1.3	0.024	0.14	2.0				
LP-191 (6415)	Barren						0.020	108.7	110.5	1.8
LP-194 (6481)	224.7	226.0	1.3	0.074	0.23	0.3	0.036	298.1	299.5	1.4
	297.4	298.9	2.5	0.024	0.11	1.4				
LP-195 (6436)	213.0	213.5	0.5	0.013	0.12	0.9	Not probed			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent		Percent eU3O8	Depth in feet		Thickness (feet)	
	From	To		U3O8	V2O5		From	To		
Block A--Continued										
LP-198 (6479)	217.9	218.2	0.3	0.011	0.19	2.7	217.9	219.1	1.2	
	228.0	233.4	5.4	0.014	0.13	2.0	228.7	229.9	1.2	
	233.4	233.9	0.5	0.068	0.18	0.8				
	233.9	234.9	1.0	0.20	0.62	0.5	234.2	235.0	0.8	
	234.9	236.7	1.8	0.046	0.13	1.1	235.0	238.0	3.0	
	236.7	246.9	10.2	0.021	0.08	1.5	238.0	239.4	1.4	
LP-204 (6464)	231.0	232.0	1.0	0.034	0.17	1.0	239.4	240.2	0.8	
	241.4	244.4	3.0	0.024	<0.10	1.2	240.2	241.7	1.5	
	193.2	193.7	0.5	0.012	0.16	0.4	232.0	233.2	1.2	
	214.4	215.9	1.5	0.019	0.18	1.5	242.7	243.9	1.2	
LP-209 (6424)	215.9	216.4	0.5	0.19	2.31	0.5				
	216.4	216.9	0.5	0.025	0.33	1.5	215.5	216.3	0.8	
	253.5	253.8	0.3	0.009	0.45	0.8				
							Barren			
LP-211 (6501)										
LP-217 (6477)	211.4	213.7	2.3	0.017	0.11	2.3	228.2	229.0	0.8	
	215.0	216.7	1.7	0.012	0.11	2.5				
	227.5	227.8	0.3	0.040	0.28	0.4				
	235.8	236.3	0.5	0.029	0.12	3.5				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
	From	To		U_3O_8	V_2O_5	CaCO_3	From	To
Block A--Continued								
LP-231 (6393)	Barren							
							0.036	209.7 210.8 1.1
							0.020	211.6 212.4 0.8
Block B								
LP-25 (6401)	321.0	321.3	0.3	0.012	0.62	0.81	Not probed	
	321.3	321.6	0.3	1.12	1.83	0.31		
	321.6	322.1	0.5	0.14	6.37	0.19		
	322.1	322.8	0.7	0.036	1.99	0.76		
	341.6	342.9	1.3	0.06	0.16	2.02		
LP-96 (6398)	326.4	327.7	1.3	0.026	<0.10	2.8	0.043	327.9 328.8 0.9
LP-97 (6395)	307.5	308.6	1.1	0.024	0.68	0.9	0.045	303.5 304.5 1.0
LP-98 (6402)	315.2	315.7	0.5	0.021	<0.10	0.8	0.053	215.6 216.6 1.0
	347.7	348.5	0.8	0.042	<0.10	9.1	0.056	346.5 347.4 0.9
LP-103 (6407)	337.8	338.3	0.5	0.037	<0.10	2.2	0.066	339.8 340.5 0.7
LP-104 (6399)	301.1	301.4	0.3	0.020	<0.10	0.5	Barren	

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet From	To	Thickness (feet)	Percent U ₃ O ₈ V ₂ O ₅ CaCO ₃	Percent eU ₃ O ₈	Depth in feet From	To	Thickness (feet)
Block B--Continued								
LP-106 (6427)	327.0	327.3	0.3	0.021	<0.10	0.5		
							Barren	
LP-109 (6397)	315.3	315.8	0.5	0.008	0.11	1.80		
							0.75	337.7 338.5 0.8
	336.2	337.2	1.0	0.14	<0.10	4.6		
	337.2	337.9	0.7	0.028	0.12	10.1		
							0.072	343.8 345.6 1.8
	340.5	342.3	1.8	0.016	0.97	0.6		
	342.3	344.0	1.7	0.13	1.60	1.2		
	344.0	345.0	1.0	0.32	1.57	1.4		
	345.0	347.4	2.4	0.11	3.79	0.8		
	347.4	347.8	0.4	0.029	1.02	0.8		
	347.8	349.8	2.0	0.016	0.10	2.6		
							0.061	350.3 351.3 1.0
LP-113 (6415)	330.0	330.5	0.5	0.034	<0.10	4.5		
							0.023	327.4 328.2 0.8
LP-115 (6415)	319.8	320.0	0.2	0.02	<0.10	0.6		
							Barren	
LP-117 (6400)	353.5	354.0	0.5	0.019	0.27	0.8		
							0.24	354.1 354.8 0.7
	357.3	358.6	1.3	0.059	0.70	1.1		
							0.18	358.3 358.9 0.6
	361.1	361.3	0.2	0.012	0.19	2.1		
	369.0	369.8	0.8	0.013	0.84	2.3		
	371.5	372.0	0.5	0.10	0.16	3.5		

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU_3O_8	Depth in feet From To		Thickness (feet)
				U_3O_8	V_2O_5				
Block B--Continued									
LP-119 (6403)	348.4	348.9	0.5	0.029	<0.10	1.8	348.0	348.7	0.7
	349.1	350.9	1.8	0.026	<0.10	2.2	350.7	351.4	0.7
	350.9	351.9	1.0	0.13	<0.10	4.9	351.9	352.5	0.6
	355.5	356.8	1.3	0.016	0.15	1.8	357.8	358.4	0.6
	363.4	366.7	3.3	0.012	0.16	0.2	366.5	367.6	1.1
LP-120 (6391)	344.4	347.4	3.0	0.012	0.12	2.6	220.9	221.7	0.8
	347.4	348.9	1.5	0.08	0.15	2.8	226.0	226.9	0.9
	348.9	349.4	0.5	0.32	0.28	3.0	226.9	227.8	0.9
	349.4	350.0	0.6	0.60	0.50	0.9	346.8	347.9	1.1
	350.0	351.4	1.4	0.46	2.71	1.2	348.9	349.6	0.7
LP-124 (6399)	351.4	352.2	0.8	0.009e	0.41	6.6	349.6	351.0	1.4
	356.8	359.8	3.0	0.03	0.64	4.5	351.0	352.9	1.9
	333.3	334.1	0.8	0.08	0.80	1.1	357.7	358.6	0.9
	369.3	370.7	1.4	0.015	0.18	7.1	359.3	360.4	1.1
							334.7	335.5	0.8
							348.0	348.6	0.6
							370.2	371.6	1.4

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent U ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅ CaCO ₃				
Block B--Continued									
LP-125 (6398)	340.8	341.3	0.5	0.028	0.16	5.8	339.7	340.2	0.5
	350.8	351.0	0.2	0.02	<0.10	2.0	356.2	357.0	0.8
	356.7	357.9	1.2	0.20	2.18	0.5	357.9	358.5	0.6
	357.9	358.7	0.8	0.012	0.28	0.8			
	359.4	359.7	0.3	0.007e	0.11	--			
LP-127 (6420)	375.5	375.8	0.3	0.009e	0.10	--			
	368.4	370.5	2.1	0.028	<0.10	8.2	368.4	370.2	1.8
LP-129 (6388)	340.5	341.2	0.7	0.016	0.19	2.2	341.5	342.0	0.5
	341.2	342.2	1.0	0.083	0.20	2.6	342.6	343.4	0.8
	342.2	342.5	0.3	0.01	0.14	2.3			
	342.5	343.4	0.9	0.26	3.10	0.5			
	343.4	343.7	0.3	0.008	0.42	1.6	347.6	348.5	0.9
	347.0	347.2	0.2	0.006	0.32	0.4	359.4	361.0	1.6
	347.2	347.9	0.7	0.57	6.82	0.7	361.0	362.0	1.0
	347.9	348.7	0.8	0.22	1.64	0.6			
	358.9	359.3	0.4	0.008	0.17	2.9			
	359.3	360.0	0.7	0.037	0.80	0.8			
	360.0	360.5	0.5	0.007	0.15	2.4			
	360.5	362.0	1.5	0.12	0.17	7.7			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅			From	To
Block B--Continued									
LP-130 (6408)	349.2	350.4	1.2	0.097	1.51	5.9	348.5	349.3	0.8
	375.6	376.0	0.4	0.19	7.65	0.1	377.0	377.6	0.6
	382.8	383.8	1.0	0.10	2.73	1.2	384.1	385.0	0.9
	383.8	384.8	1.0	0.02	1.39	0.8			
LP-136 (6413)	384.8	385.6	0.8	0.20	1.53	1.5	386.6	387.7	1.1
	385.6	387.4	1.8	0.85	1.03	2.2	387.7	388.6	0.9
							388.6	389.9	1.3
	388.2	388.4	0.2	0.013	1.77	4.9	389.9	390.7	0.8
LP-137 (6405)	388.7	390.5	1.8	0.059	0.12	4.4	394.6	395.1	0.5
	390.5	391.6	1.1	0.027	0.23	3.4			
	391.6	393.0	1.4	0.019	1.38	0.8			
	393.0	393.7	0.7	0.031	0.80	5.4			
LP-137 (6405)	355.0	356.1	1.1	0.02	<0.10	3.7	355.1	356.5	1.4
	360.0	360.6	0.6	0.12	<0.10	1.8	360.2	361.0	0.8
	361.1	362.4	0.3	0.023	0.14	1.0	363.5	364.4	0.9
	362.4	363.7	1.3	0.12	0.15	1.0			
LP-137 (6405)	363.7	364.3	0.6	0.027	0.25	0.9	365.3	366.3	1.0
	364.3	365.4	1.1	0.096	0.40	3.3			
	365.4	366.2	0.8	0.026	0.19	0.8	376.0	376.6	0.6
	374.1	374.6	0.5	0.012	0.11	7.3			
LP-137 (6405)	375.1	375.8	0.7	0.043	0.11	8.2			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent U_3O_8	Thickness (feet)
	From	To		U_3O_8 V_2O_5 $CaCO_3$	From	To		
Block B--Continued								
LP-140 (6425)	358.7	359.0	0.3	0.023 0.17 2.6	359.9	360.6	0.071	0.7
	360.9	362.6	1.7	0.025 <0.10 2.4	362.3	363.0	0.90	0.7
	363.9	364.7	0.8	0.11 0.39 4.2	368.3	368.9	0.29	0.6
	364.7	365.1	0.4	0.35 6.75 0.5				
	365.1	365.4	0.3	0.01 0.30 1.0				
LP-144 (6405)	365.6	367.4	1.8	0.007e 0.17 4.3				
	370.3	370.6	0.3	0.022 0.31 0.6				
	370.6	370.8	0.2	0.37 8.98 0.3				
	370.8	371.8	1.0	0.029 0.22 0.8				
	320.0	320.3	0.3	0.021 <0.10 7.8	351.1	352.0	1.8	0.9
LP-144 (6405)	351.2	352.6	1.4	0.37 9.05 0.2				
	352.6	353.1	0.5	1.71 4.94 0.8				
	353.1	356.1	3.0	0.063 0.19 4.0				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet	Thickness (feet)	Percent		Depth in feet	Thickness (feet)
			U ₃ O ₈	V ₂ O ₅	From	To
Block B--Continued						
LP-145 (6425)	383.7	0.5	0.008e	0.24	384.7	385.5
	384.2	0.3	0.29	8.93		
	384.5	0.2	0.008e	0.30	392.3	393.2
	385.7	1.0	0.009e	0.11	393.2	394.0
	387.9	0.3	0.011	0.12		
LP-147 (6420)	389.9	1.9	0.035	0.41		
	391.8	1.0	0.22	2.41		
	392.8	0.7	0.017	0.27		
	363.6	1.0	0.028	<0.10	377.1	379.7
	379.5	2.6	0.020	<0.10		2.6
LP-149 (6402)	398.2	0.5	0.053	<0.10		
	310.4	0.3	0.034	<0.10	214.6	215.3
						0.7
LP-150 (6389)	343.7	1.2	0.017	0.69		
	344.9	1.0	0.18	2.50	346.4	347.2
	345.9	0.8	0.012	0.33		0.8

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From	Depth in feet To	Thickness (feet)	Percent $\frac{\text{U}_3\text{O}_8}{\text{V}_2\text{O}_5}$	Percent $\frac{\text{U}_3\text{O}_8}{\text{CaCO}_3}$	Depth in feet From	Depth in feet To	Thickness (feet)	
Block B--Continued									
LP-154 (6432)	398.9	401.7	2.8	0.012	0.36	1.7	403.2	404.5	1.3
	402.2	403.7	1.5	0.021	<0.10	7.1	407.0	408.1	1.1
	405.8	406.9	1.1	0.10	0.60	1.3	408.1	409.9	1.8
	406.9	409.4	2.5	0.05	0.47	1.0	410.8	412.0	1.2
	409.4	412.2	2.8	0.048	0.69	2.2	416.3	417.2	0.9
	412.2	413.0	0.8	0.10	0.94	1.2			
	413.2	414.5	1.3	0.015	0.28	4.1			
	415.0	416.0	1.0	0.055	0.33	8.3			
	416.0	416.8	0.8	0.052	0.15	1.6			
LP-157 (6418)	348.7	349.0	0.3	0.023	<0.10	2.6			
							Barren		
LP-159 (6395)	352.5	353.1	0.6	0.16	<0.10	1.2	353.2	354.1	0.9
LP-161 (6446)	404.2	405.7	1.5	0.02	0.24	3.1	405.5	406.4	0.9
	417.0	418.2	1.2	0.098	0.81	0.8	409.1	410.0	0.9
	418.2	419.0	0.8	0.014	0.33	1.0	418.4	419.2	0.8
	419.0	420.2	1.2	0.037	0.24	4.3			
	420.5	420.8	0.3	0.021	0.18	3.7	420.5	421.5	1.0
	420.8	421.6	0.8	0.068	0.50	4.7	421.5	422.5	1.0
	421.6	422.6	1.0	0.25	0.92	6.5	422.5	423.5	1.0
	422.6	423.1	0.5	0.031	0.19	6.0			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uruvan district, Montrose County, Color--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent U_3O_8	Thickness (feet)
	From	To		U_3O_8 V_2O_5 $CaCO_3$	From	To		
Block B--Continued								
LP-165 (6479)	447.1	447.6	0.5	0.025 <0.10 2.3	Barren			
LP-166 (6403)	328.8	329.5	0.7	0.052 <0.10 0.6	329.3	330.4	0.039	1.1
	348.0	348.5	0.5	0.031 <0.10 4.5	348.8	349.6	0.037	0.8
	333.9	334.4	0.5	0.02 0.11 0.6	340.7	341.8	0.091	1.1
LP-169 (6405)	339.7	340.5	0.8	0.007e 0.15 --	349.6	350.9	1.2	1.3
	340.6	341.3	0.7	0.13 8.20 0.1	361.5	362.6	0.034	1.1
	341.3	342.0	0.7	0.021 1.28 0.3				
	342.0	342.4	0.4	0.018 2.50 0.1				
	342.4	342.9	0.5	0.007e 0.25 0.4				
	343.2	343.4	0.2	0.019 0.37 0.5				
	344.4	345.4	1.0	0.015 0.53 0.7				
	348.4	349.1	0.7	0.066 0.21 0.8				
	349.1	350.1	1.0	0.51 0.19 0.9				
	350.1	351.1	1.0	0.77 0.42 0.5				
	351.1	351.3	0.2	0.47 3.52 0.2				
	351.3	351.6	0.3	0.022 0.36 0.4				
	357.5	359.0	1.5	0.007e 0.22 1.0				
	360.1	362.4	1.3	0.025 0.26 2.4				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Color.-Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent			Percent eU ₂ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅	CaCO ₃				
Block B--Continued										
LP-172 (6491)	443.9	446.0	2.1	0.006e	0.28	5.4	Barren			
LP-173 (6474)	462.3	462.5	0.2	0.008e	0.25	1.6	0.074	463.5	464.9	1.4
	462.5	464.6	2.1	0.063	0.86	0.7				
	464.6	466.4	1.8	0.028	0.14	8.9				
Block C										
LP-34 (6454)	30.1	31.1	1.0	0.025	0.23	10.1	Not probed			
LP-288 (6467)	75.5	76.8	1.3	0.021	<0.10	0.029	0.040	74.2	77.3	3.1
							0.028	96.8	98.2	1.4
							0.023	108.0	109.3	1.3
LP-293 (6497)	78.4	80.9	2.5	0.054	0.39	<0.1	0.99	80.0	80.7	0.7
	80.9	81.9	1.0	0.015	1.91	0.2	0.047	80.7	81.7	1.0
	81.9	82.9	1.0	0.38	3.20	0.3	1.7	81.7	82.4	0.7
	82.9	83.8	0.9	0.024	0.50	0.1				
	83.8	84.3	0.5	0.024	0.18	0.1	0.64	102.0	102.6	0.6
	101.8	102.8	1.0	0.068	2.36	0.4				
	102.8	103.1	0.3	0.002	1.13	0.1				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent U_3O_8	Thickness (feet)
	From	To		U_3O_8 V_2O_5 $CaCO_3$	From	To		
Block C--Continued								
LP-339 (6498)	75.9	76.4	0.5	1.09 5.22 0.6	74.7	75.7	0.048	1.0
	76.4	76.5	0.1	0.053 2.82 0.3				
LP-347 (6488)	97.5	98.1	0.6	0.003e 0.13 Undet	98.3	99.2	0.15	0.9
	98.1	99.2	1.1	0.073 1.02 0.5				
LP-353 (6497)	71.0	71.3	0.3	0.006e 0.10 Undet	73.5	74.1	0.031	0.6
	71.3	71.8	0.5	0.04 0.42 0.5				
	71.8	72.6	0.8	0.13 1.11 0.5	74.1	75.1	0.068	1.0
	72.6	73.6	1.0	0.22 1.11 0.2	75.4	76.1	0.040	0.7
LP-354 (6486)	No sample				77.9	79.8	0.021	1.9
					80.3	81.6	0.022	1.3
LP-359 (6476)	80.0	80.5	0.5	0.010e 2.36 0.2	78.2	79.4	0.18	1.2
	80.5	81.2	0.7	0.18 3.26 0.4	79.4	80.5	0.47	1.1
	81.2	81.7	0.5	0.038 0.46 0.2	80.5	82.8	0.10	2.3
	81.7	82.5	0.8	0.29 2.52 0.4	82.8	83.7	1.4	0.9
	82.5	83.0	0.5	0.031e 0.68 0.1	83.7	84.5	0.17	0.8
	83.0	83.7	0.7	0.94 1.60 0.1				
	83.7	85.1	1.4	0.15 1.41 0.6				
	85.1	85.9	0.8	0.19 1.37 3.0				
	85.9	86.2	0.3	0.031e 0.68 5.1				
LP-366 (6501)	74.6	77.0	2.4	0.037 0.60 0.5	75.9	77.0	0.22	1.1
	77.2	77.8	0.6	0.021e 0.28 Undet	78.5	79.6	0.031	1.1

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)		Percent		Depth in feet	
	From	To			U ₃ O ₈	V ₂ O ₅	CaCO ₃	From To
Block C--Continued								
LP-368 (6465)	No sample				0.043			61.0 62.3 1.3
LP-371 (6486)	81.8	82.7	0.9		1.4			81.1 81.9 0.8
	82.7	83.8	1.1					
	83.8	84.3	0.5					
	84.3	84.6	0.3					
	84.6	85.6	1.0					
LP-375 (6481)	52.1	52.6	0.5		0.033			53.0 54.6 1.6
	92.0	92.7	0.7		1.7			92.7 93.5 0.8
	92.7	93.0	0.3					
LP-382 (6484)	94.3	94.6	0.3		0.023			90.2 91.2 1.0
	94.6	95.4	0.8		0.047			93.1 94.1 1.0
	96.1	96.5	0.4		0.30			95.5 96.2 0.6
	96.5	97.5	1.0					

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅		CaCO ₃	From To	
Block C--Continued									
LP-423 (6469)	71.3	71.8	0.5	0.012e	0.27	0.4	71.4	72.2	0.8
	71.8	72.2	0.4	0.26	5.65	0.3			
	72.2	72.7	0.5	1.32	4.36	0.3	74.0	74.9	0.9
	72.7	73.2	0.5	0.12	1.76	0.9			
	73.9	74.4	0.5	0.031e	0.94	0.3	76.6	77.3	0.7
LP-437 (6459)	74.4	76.0	1.6	0.20	1.52	0.3			83
	76.0	76.9	0.9	0.044	0.65	0.6			
	76.9	77.4	0.5	0.075	0.45	1.2			
	77.4	78.0	0.6	1.88	5.80	0.2			
	78.0	78.5	0.5	0.047	1.0	0.1			
	78.7	79.2	0.5	0.016e	0.28	0.5			
	79.4	79.7	0.3	0.022e	0.5	0.022			
	70.3	70.6	0.3	0.082	1.03	0.3	75.1	76.0	0.9
	70.8	71.2	0.4	0.028	0.41	0.5	84.3	85.2	0.9
	71.2	72.4	1.2	0.001e	0.16	Undet			
LP-456 (6476)	83.9	84.5	0.6	0.023e	0.23	Undet			
	84.5	85.4	0.9	0.043	0.76	0.1			
	72.0	72.5	0.5	0.030	0.41	3.6	71.6	72.9	1.3
	73.9	75.0	1.1	0.020e	0.09	Undet	74.2	76.6	2.4
	75.6	76.5	0.9	0.070	0.28	0.8	79.3	80.7	1.4
OFFICIAL USE ONLY									

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No., and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅		From	To	
Block D									
LP-282 (6438)	138.5	140.0	1.5	0.021	0.24	0.7	138.1	139.2	1.1
	140.0	141.0	1.0	0.043	0.32	0.4	139.2	140.4	1.2
	141.0	142.3	1.3	0.059	0.55	7.2			
LP-302 (6433)	92.8	94.1	1.3	0.007	0.16	3.6	94.1	95.0	0.9
							95.0	95.3	0.3
	94.2	95.2	1.0	0.77	6.65	0.9	95.3	96.5	1.2
	95.2	96.1	0.9	0.81	8.89	0.8	96.5	97.1	0.6
	96.1	97.2	1.1	1.96	5.97	0.7	97.1	98.0	0.9
	97.2	98.0	0.8	0.056	1.30	0.4	98.0	98.5	1.5
	98.0	98.9	0.9	0.039	0.047	0.6	99.5	100.4	0.9
	98.9	100.2	1.3	0.092	1.30	0.2			
	100.2	101.3	1.1	0.18	1.80	0.3			
	101.3	101.6	0.3	0.009	0.46	1.5			
LP-309 (6406)	128.8	130.1	1.3	0.011	<0.10	6.5	66.4	67.0	0.6
	(Below grade)								
LP-331 (6437)	106.2	106.7	0.5	0.005e	0.31	Undet	107.4	108.5	1.1
	106.7	107.4	0.7	0.037	1.64	0.4			
	107.4	107.9	0.5	0.011e	0.65	0.7			
	111.6	112.1	0.5	0.015e	0.32	Undet			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.-Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent U_3O_8	Thickness (feet)
	From	To		U_3O_8	V_2O_5	$CaCO_3$	From	To
Block D--Continued								
LP-333 (6433)	111.7	112.0	0.3	0.033	0.73	0.5	112.2	113.0
	117.1	118.4	1.3	0.000e	0.12	Undet	130.6	131.5
	130.0	130.3	0.3	0.031e	<0.10	Undet		
LP-363 (6437)	112.9	114.7	1.8	0.019e	0.36	Undet	112.4	113.3
	114.7	115.9	1.2	0.078	1.18	0.4	114.0	115.2
	118.7	119.0	0.3	0.13	1.22	0.6	118.2	119.6
	119.0	120.4	1.4	0.030e	0.39	Undet	119.9	120.5
No sample								
LP-379 (6438) LP-383 (6454)	141.3	142.1	0.8	0.030e	0.11	Undet	119.1	120.1
	142.1	143.7	1.6	0.85	1.76	0.7	142.1	143.2
	143.6	144.7	1.1	0.034e	0.28	Undet	144.7	146.3
	144.7	146.1	1.4	0.18	1.36	0.6		
LP-389 (6432)	146.1	147.3	1.2	0.038	0.22	Undet		
	139.9	140.6	0.7	0.31	0.90	0.2	140.1	140.8
							174.8	175.8

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent $^{238}\text{U}_3\text{O}_8$	Depth in feet From To		Thickness (feet)
				U_3O_8	V_2O_5				
Block D--Continued									
LP-391 (6451)	No Sample								
LP-413 (6446)	134.6	135.1	0.5	0.032e	<0.10	2.1	149.5	151.2	1.7
	135.8	137.5	1.7	0.028e	0.14	1.0	134.9	136.3	1.4
	137.5	139.1	1.6	0.078	0.21	0.4	138.0	139.5	1.5
	139.1	141.1	2.0	0.029e	0.19	0.7	140.0	141.2	1.2
LP-416 (6465)	142.5	143.3	0.8	0.033e	0.36	4.3	143.3	144.4	1.1
	143.3	143.9	0.6	0.052	0.43	0.2			
	152.0	152.6	0.6	0.044	0.23	2.1	152.6	154.0	1.4
	152.6	152.9	0.3	0.030e	0.54	0.4	154.8	155.9	1.1
	152.9	155.4	2.5	0.047	0.52	0.4	156.7	157.8	1.1
LP-418 (6468)	155.4	157.2	1.8	0.033e	0.36	0.1			
	176.2	177.0	0.8	0.15	1.35	0.4	176.8	177.6	0.8
LP-427 (6456)	No sample						65.4	66.9	1.5
LP-434 (6445)	114.7	115.0	0.3	0.034e	<0.10	Undet	109.4	111.6	2.2
							115.0	116.0	1.0

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent U_3O_8	Thickness (feet)
	From	To		U_3O_8 V_2O_5 $CaCO_3$	From	To		
Block D--Continued								
LP-436 (6459)	164.2	164.5	0.3	0.008e 0.85 0.2	164.7	166.1	0.041	1.4
	177.5	177.6	0.1	0.004e 0.83 1.3	167.9	168.7	0.024	0.8
					175.6	176.4	0.090	0.8
LP-458 (6430)	143.8	144.8	1.0	0.059 0.52 0.7	142.8	143.6	0.14	0.8
Block E								
LP-14 (6379)	211.0	211.3	0.3	0.017 0.11 2.02	Not probed			
LP-671-A (6400)	197.2	197.8	0.6	0.003e 0.30 Undet	199.0	200.0	1.9	1.0
	197.8	198.1	0.3	0.040 1.70 0.3				
	198.1	198.4	0.3	0.63 2.45 0.4	212.0	213.1	0.021	1.1
	198.4	198.9	0.5	0.41 0.74 0.8				
	198.9	199.5	0.6	0.16 0.37 0.6				
	199.5	199.7	0.2	0.096 0.68 0.8				
	199.7	201.9	2.2	0.016 2.77 0.4				
	211.1	211.5	0.4	0.007e 2.47 0.3				
LP-672 (6417)	No sample				242.2	243.1	0.035	0.9

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$ $\frac{CaCO_3}{V_2O_5}$	Percent $\frac{eU_3O_8}{V_2O_5}$	Depth in feet From To		Thickness (feet)	
Block E--Continued									
LP-684 (6393)	113.8	114.1	0.3	0.029e	<0.10	1.2	113.4	114.6	1.2
	189.5	190.7	1.2	0.043	2.22	0.3			
	190.7	191.0	0.3	0.20	3.07	0.3	192.0	193.0	1.0
	191.0	191.9	0.9	1.31	3.89	0.5	195.1	196.3	1.2
	191.9	192.1	0.2	0.80	2.55	0.5			
	192.1	192.6	0.5	0.017	0.44	0.2	206.0	207.0	1.0
	192.6	194.1	1.5	0.021e	0.27	Undet			
	194.1	195.3	1.2	0.013e	0.32	Undet			
	195.3	196.2	0.9	0.024e	0.35	Undet			
	206.1	206.4	0.3	0.032e	<0.10	Undet			
LP-686 (6395)	182.4	183.7	1.3	0.002e	0.12	Undet	264.3	265.3	1.0
	196.7	198.1	1.4	0.001e	0.12	Undet			
	206.3	206.9	0.6	0.068	2.64	0.4	205.5	206.1	0.6
LP-692 (6402)	206.9	207.1	0.2	0.008e	0.79	0.4			
	207.1	207.7	0.6	0.019e	0.27	Undet	207.2	207.9	0.7
	207.7	208.1	0.4	0.023e	1.83	0.2			
	208.1	208.8	0.7	0.13	4.89	0.4			
	215.9	217.4	1.5	0.009e	1.26	0.5			
LP-706 (6393)	186.2	186.7	0.5	0.003e	0.27	Undet			
						Barren			
OFFICIAL USE ONLY									

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data		
	Depth in feet		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet	
	From	To		U ₃ O ₈	V ₂ O ₅		From	To
								Thickness (feet)
Block E--Continued								
LP-707 (6460)	293.1	293.4	0.3	0.056	0.18	2.9	291.0	292.5
	293.7	294.3	0.6	0.029e	<0.10	Undet		1.5
LP-743 (6414)	206.6	206.9	0.3	0.010e	0.57	0.3	206.8	207.8
	206.9	207.5	0.6	0.025e	0.26	Undet		1.0
	209.7	210.5	0.8	0.010e	0.18	Undet		1.2
	210.5	212.0	1.5	0.010e	1.13	<0.1	210.2	211.4
	212.0	213.5	1.5	0.006e	0.91	<0.1	217.8	220.1
	213.5	215.2	1.7	0.004e	0.39	Undet		2.3
LP-791 (6407)	216.8	218.4	1.6	0.020e	0.15	Undet		
	218.4	219.6	1.2	0.013e	0.14	Undet		
	192.5	193.1	0.6	0.039	0.62	0.2	191.3	192.4
	193.1	193.5	0.4	0.021e	0.56	1.0		1.1
	193.5	194.1	0.6	0.037	0.27	0.15	192.4	193.3
	194.1	195.3	1.2	0.011e	0.71	0.6		0.9
	195.3	197.0	1.7	0.003e	0.29	Undet	196.8	197.5
	197.0	197.7	0.7	0.013e	0.79	1.6		0.7
	197.7	198.6	0.9	0.059	1.08	2.0		
	208.8	210.3	1.5	0.002e	0.22	Undet		
LP-793-A (6415)	210.3	211.5	1.2	0.009e	0.34	Undet		
	Barren						137.1	138.1
						0.040		1.0

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent			Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅	CaCO ₃				
Block F--Continued										
LP-803 (6378)	272.9	273.2	0.3	0.12	4.09	2.3	0.41 0.10	271.9	273.2	1.3
	273.2	273.5	0.3	0.52	5.82	0.6		273.2	274.2	1.0
	273.5	274.0	0.5	0.23	1.39	1.2				
	274.0	275.0	1.0	0.050	0.66	5.4				
	275.0	275.7	0.7	0.008e	0.15	Undet				
LP-813 (6331)	125.8	126.4	0.6	0.034e	0.22	Undet	0.030	124.5	125.5	1.0
LP-815 (6417)	364.1	364.8	0.7	0.003e	1.02	3.3	0.041 0.022 0.034	206.3	207.6	1.3
	364.8	365.8	1.0	0.004e	0.34	Undet		341.5	342.3	0.8
	365.8	366.4	0.6	0.028e	0.17	Undet				
LP-832 (6434) LP-833 (6368)	310.0	310.4	0.4	0.13	0.93	3.0	0.14 0.15 0.34	364.2	365.1	0.9
								308.8	309.6	0.8
	262.6	265.0	2.4	0.003e	0.30	Undet		262.9	264.0	1.1
	265.0	265.3	0.3	0.033	3.09	1.6		266.3	268.7	2.4
	265.3	265.6	0.3	0.53	3.89	0.8				
	265.6	266.2	0.6	0.072	1.87	1.6				
	266.2	267.4	1.2	0.053	0.45	2.5				
	267.4	268.0	0.6	0.014e	0.39	Undet				
	268.0	268.8	0.8	0.084	0.45	3.2				
	268.8	269.4	0.6	0.47	1.16	3.8				
	269.4	269.7	0.3	0.09	1.13	4.0				
	269.7	270.4	0.7	0.046	1.66	3.1				
	270.4	271.0	0.6	0.11	0.24	6.3				
271.0	271.3	0.3	0.10	<0.10	6.6					
271.3	271.4	0.1	0.058	<0.10	7.0					

OFFICIAL USE ONLY

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uruavan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Block F--Continued	Depth in feet From	To	Thickness (feet)	Percent		Depth in feet From	To
					U ₃ O ₈	V ₂ O ₅		
						CaCO ₃		Thickness (feet)
LP-834 (6371)		246.5	246.9	0.4	0.019e	0.28	Undet	1.9
		246.9	247.6	0.7	1.15	2.14	2.0	247.1
		247.6	247.9	0.3	0.041	0.71	3.8	249.5
		247.9	248.8	0.9	0.005e	0.74	5.6	250.6
		248.8	249.1	0.3	0.018e	1.90	2.9	253.0
		249.1	250.0	0.9	0.26	1.13	6.0	253.7
		250.0	250.6	0.6	0.031	0.51	5.6	0.8
LP-861 (6370)		252.3	252.7	0.4	3.67	6.48	3.2	
		252.7	253.3	0.6	0.020e	0.33	Undet	
		253.3	253.7	0.4	0.17	<0.10	4.7	
		218.2	218.8	0.6	0.016e	0.32	Undet	0.020
		218.8	219.1	0.3	0.037	0.32	5.6	215.9
LP-886 (6426)		219.1	220.2	1.1	0.003e	0.32	Undet	218.3
		337.5	338.9	1.4	0.005e	0.90	2.6	219.6
		338.9	339.2	0.3	0.018	12.23	0.3	222.3
		339.2	339.8	0.6	0.014e	3.06	0.7	339.5
LP-887 (6497)		339.8	340.1	0.3	0.79	<0.10	4.1	340.3
		427.4	428.0	0.6	0.066	0.15	4.0	291.7
								293.4
								426.4
								427.3

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uruan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent eU_2O_8	Thickness (feet)
	From	To		U_3O_8 V_2O_5 $CaCO_3$	From	To		
Block F--Continued								
LP-888 (6464)	356.0	356.3	0.3	0.006e 0.70 4.6	354.4	355.1	0.15	0.7
	356.3	356.6	0.3	0.028e 0.52 7.8				
	356.6	357.0	0.4	0.14 3.20 6.8				
LP-889 (6369)	276.5	276.9	0.4	0.009e 0.55 3.2	276.5	277.1	0.047	0.6
	276.9	277.2	0.3	0.41 4.08 0.8				
	277.2	277.3	0.1	0.068 1.22 2.7	277.7	278.4	0.038	0.7
LP-890 (6365)	229.8	231.4	1.6	0.002e 0.17 Undet				
	231.7	232.7	1.0	0.002e 1.11 6.5	233.1	233.8	0.23	0.7
	232.7	233.0	0.3	0.013e 0.61 7.1				
LP-903 (6333)	233.0	233.3	0.3	0.15 1.02 5.9				
	233.3	233.4	0.1	0.13 0.99 6.5				
	198.7	199.5	0.8	0.009e 0.44 Undet	199.7	201.2	0.25	1.5
LP-909 (6403)	199.5	200.0	0.5	0.19 3.83 1.4	201.2	202.8	0.15	1.6
	200.0	201.2	1.2	0.20 2.42 1.4	205.0	206.2	0.026	1.2
	201.2	202.4	1.2	0.16 2.73 3.8				
LP-909 (6403)	202.4	202.6	0.2	0.038 1.40 6.5				
	202.6	203.6	1.0	0.005e 0.34 Undet				
	205.0	205.3	0.3	0.032e 0.20 Undet				
	261.9	262.6	0.7	0.002e 0.39 Undet				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent			Percent U ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅	CaCO ₃				
Block F--Continued										
LP-910 (6438)	258.2	258.6	0.4	0.044	0.15	9.6	0.035	257.1	257.9	0.8
LP-920 (6326)	181.4	182.4	1.0	0.003e	0.25	Undet	0.05	182.2	183.2	1.0
LP-921 (6331)	171.9	172.4	0.5	0.008e	0.15	Undet	0.48	172.5	173.5	1.0
	172.4	172.7	0.3	0.043	0.49	5.6				
	172.7	173.0	0.3	0.26	4.35	2.5				
	173.0	173.6	0.6	0.043	2.78	2.1				
	173.6	173.9	0.3	0.060	1.23	6.2				
	173.9	174.1	0.2	0.005e	0.44	Undet				
LP-922 (6424)	342.9	343.2	0.3	0.027e	<0.10	Undet	0.21	341.8	342.6	0.8
	343.8	344.7	0.9	0.047	<0.10	3.8				
LP-923 (6450)	374.0	374.3	0.3	0.039	<0.10	3.8	0.027	372.2	373.0	0.8
	376.7	377.0	0.3	0.050	0.15	1.9	0.18	376.3	377.0	0.7
	377.0	377.1	0.1	0.017e	0.12	Undet	0.57	377.0	379.7	2.7
	377.7	377.9	0.2	0.025e	0.29	Undet				
	377.9	378.2	0.3	0.28	0.79	0.7				
	378.2	378.8	0.6	0.27	0.22	2.5				
	378.8	380.3	1.5	0.52	0.20	3.4				
	380.3	381.5	1.2	0.25	0.27	2.1				
	381.5	381.8	0.3	0.17	<0.10	2.2				
	381.8	382.3	0.5	0.048	<0.10	3.4				
	382.3	382.6	0.3	0.055	<0.10	4.3				
	382.9	383.2	0.3	0.021	<0.10	Undet				

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent			Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅	CaCO ₃				
Block F--Continued										
LP-936 (6323)	219.3	219.6	0.3	0.004e	0.43	Undet	0.027	218.7	220.2	1.5
	219.6	220.0	0.4	0.018e	1.78	1.5				
	220.0	222.0	2.0	0.012e	0.84	4.8				
LP-938 (6345)	264.1	264.4	0.3	0.015e	0.17	Undet	0.095	264.2	265.1	0.9
	264.4	265.0	0.6	0.078	0.91	0.2				
	265.0	265.5	0.5	0.009e	0.41	Undet				
	265.5	266.5	1.0	0.004e	0.14	Undet				
LP-1052 (6324)	148.9	150.0	1.1	0.003e	0.47	Undet	0.043	150.4	152.0	1.6
	150.4	151.3	0.9	0.014e	0.47	Undet				
	151.3	151.6	0.3	0.013	0.60	6.2				
	151.6	151.9	0.3	0.11	0.97	4.3				
	151.9	152.2	0.3	0.009e	0.62	4.3				
Block G										
LP-8 (6302)	252.6	253.6	1.0	0.079	<0.10	4.7	Not probed			
LP-284 (6376)	322.8	324.1	1.3	0.011	0.14	0.9	Barren			
LP-673 (6357)	No sample						0.052	199.3	200.4	1.1

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent U ₃ O ₈	Percent V ₂ O ₅	CaCO ₃	Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
Block G--Continued										
LP-681 (6311)	252.2	252.5	0.3	0.037	0.25	4.8	0.081	252.6	253.8	1.2
	252.6	253.6	1.0	0.061	<0.10	2.1	0.036	257.3	258.3	1.0
	256.9	257.2	0.3	0.042	0.20	4.1	0.076	259.7	260.6	0.9
	258.7	259.0	0.3	0.046	0.12	4.3	0.098	261.2	262.1	0.9
	259.6	259.8	0.2	0.038	0.15	0.8	0.033	262.6	263.6	1.0
	259.8	260.0	0.2	0.060	<0.10	1.2				
	260.3	260.6	0.3	0.034	<0.10	Undet				
LP-682 (6328)	No sample									
				0.059	<0.10	5.6	0.020	171.1	171.7	0.6
				0.060	0.15	1.2	0.023	199.6	200.4	0.8
LP-683 (6328)	238.1	238.4	0.3	0.050	0.17	2.1	0.12	239.3	242.0	2.7
	238.4	239.3	0.9	0.096	<0.10	2.3	0.030	246.5	247.4	0.9
	239.3	239.4	0.1	0.072	0.11	3.6				
	239.4	240.0	0.6	0.055	<0.10	3.8	0.14	250.0	250.7	0.7
	240.0	240.9	0.9	0.085	<0.10	3.6				
	240.9	241.0	0.1	0.028	0.14	1.6				
	241.0	241.6	0.6	0.12	0.17	2.2				
	249.7	250.0	0.3	0.13	<0.10	1.0				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uruavan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅				
Block G--Continued									
LP-685 (6325)	285.0	285.1	0.1	0.23	<0.10	2.2	285.9	287.1	1.2
	286.6	287.5	0.9	0.046	<0.10	0.1	288.3	289.4	1.1
LP-687 (6316)	No sample						269.0	269.7	0.7
LP-715 (6335)	259.1	259.3	0.2	0.063	<0.10	0.6	261.1	261.9	0.8
	272.9	273.1	0.2	0.069	<0.10	1.4	275.3	276.1	0.8
LP-717 (6329)	241.5	242.8	1.3	0.010	1.13	0.8	242.1	243.3	1.2
	242.8	243.2	0.4	0.041	0.13	2.3			
	243.2	243.5	0.3	0.34	0.18	5.0			
	243.5	243.9	0.4	1.07	1.95	1.1			
	243.9	244.6	0.7	0.49	2.99	1.2			
	244.6	244.9	0.3	0.009e	0.22	Undet			
	246.2	247.6	1.4	0.001e	0.19	Undet			
LP-718 (6321)	Barren						236.3	237.3	1.0

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
Block G--Continued	From	To		U_3O_8	V_2O_5	CaCO_3	From	To
LP-725 (6325)	245.8	246.4	0.6	0.052	<0.10	6.8	243.0	243.9
	247.6	248.3	0.7	0.050	<0.10	3.5	245.2	245.9
	254.7	255.0	0.3	0.26	<0.10	2.5	247.0	247.7
	256.6	257.2	0.6	0.051	<0.10	4.1	254.0	254.6
LP-727-A (6317)	267.6	267.9	0.3	0.042	<0.10	0.4	256.0	256.8
							267.9	268.9
LP-732 (6317)	271.8	272.1	0.3	0.031	<0.10	0.3	272.4	273.1
							272.4	274.6
LP-733 (6310)	No sample						276.6	277.9
							271.0	272.2

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Color--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent		Percent U ₃ O ₈	Depth in feet		Thickness (feet)
From	To	U ₃ O ₈		V ₂ O ₅	CaCO ₃		From	To	
Block G--Continued									
LP-735 (6303)	238.3	238.6	0.3	0.042	0.21	0.3	236.8	237.7	0.9
	238.6	239.2	0.6	0.43	2.01	0.2			
	239.2	239.5	0.3	0.029e	0.21	Undet	241.7	242.6	0.9
	243.2	243.5	0.3	0.10	0.14	8.8	247.7	248.6	0.9
	243.5	243.9	0.4	0.47	0.53	4.8			
	243.9	245.0	1.1	0.071	<0.10	4.0	249.4	250.3	0.9
	249.6	249.8	0.2	0.11	0.37	0.6	251.5	252.5	1.0
	249.8	250.4	0.6	0.091e	<0.10	4.8			
	251.5	251.8	0.3	0.025e	0.78	0.4			
	253.7	254.0	0.3	0.032e	<0.10	Undet			
LP-736 (6324)	225.8	226.4	0.6	0.006e	1.29	<0.10	224.4	225.6	1.2
	226.4	226.7	0.3	0.029e	3.07	0.10			
	226.7	227.0	0.3	0.028e	0.28	Undet			
	227.0	227.2	0.2	0.025e	0.10	Undet			
	235.4	236.1	0.7	0.019e	2.44	1.5	234.5	235.3	0.8
LP-737 (6331)							246.2	247.5	1.3

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Thickness (feet)	Percent eU ₂ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅					
Block G--Continued										
LP-739 (6337)	257.6	258.2	0.6	0.023e	<0.10	Undet	0.039	161.9	163.0	1.1
	258.5	258.8	0.3	0.24	0.43	1.9	0.028	213.9	214.8	0.9
	259.8	260.7	0.9	0.039	<0.10	1.6	0.035	252.1	253.0	0.9
LP-740 (6315)	No sample						0.024	254.4	256.0	1.6
							0.041	256.4	257.6	1.2
							0.025	139.1	140.1	1.0
LP-741 (6327)	No sample						0.030	142.2	143.5	1.3
							0.032	250.6	251.2	0.6
							0.029	256.8	257.8	1.0
LP-742 (6316)	254.1	254.4	0.3	0.028e	<0.10	Undet	0.024	250.5	251.7	1.2
	255.0	255.6	0.6	0.23	<0.10	24.1	0.18	253.6	254.5	0.9
	232.6	233.0	0.4	0.059	0.17	0.5	0.031	53.1	54.5	1.4
LP-750 (6332)	233.6	233.9	0.3	0.041	0.51	0.3	0.077	230.5	232.0	1.5
	236.5	236.8	0.3	0.031e	0.17	Undet	0.032	232.5	233.6	1.1
							0.085	235.5	236.3	0.8

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Color-Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent U ₃ O ₈ V ₂ O ₅ CaCO ₃		Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
Block G--Continued									
LP-751 (6326)	219.3	219.9	0.6	0.060	1.78	0.7	147.8	149.1	1.3
	219.9	220.2	0.3	0.36	2.35	2.8			
	220.2	221.7	1.5	0.60	4.03	1.8	213.9	215.2	1.3
	221.7	221.8	0.1	0.029e	2.22	1.3			
	221.8	223.5	1.7	0.009e	0.22	Undet	218.5	219.7	1.2
LP-754 (6318)	235.8	236.1	0.3	0.030e	<0.10	Undet	236.7	238.0	1.3
	236.1	237.4	1.3	0.012e	0.17	Undet			
	237.7	238.3	0.6	0.056	<0.10	1.6			
LP-759 (6309)	No data						162.7	163.8	1.1
LP-760 (6316)	254.3	255.5	1.2	0.043	<0.10	1.1	246.4	247.2	0.8
	255.5	256.4	0.9	0.048	<0.10	4.6	247.2	248.1	0.9
	256.7	257.0	0.3	0.028e	0.22	Undet	248.1	249.2	1.1
LP-768 (6330)	No sample						275.7	276.4	0.7
LP-769 (6346)	No sample						279.5	280.2	0.7
							218.3	219.2	0.9
LP-770 (6317)	259.6	259.9	0.3	0.17	0.32	0.1	259.0	259.7	0.7
	259.9	260.2	0.3	0.25	0.68	<0.1			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Block G--Continued	Depth in feet		Thickness (feet)	Percent		Percent ^{238}U	Thickness (feet)
		From	To		U_{308}	V_{205}		
LP-771 (6326)		293.4	294.4	1.0	0.086	0.27	0.052	287.1 288.1
		294.4	295.0	0.6	0.55	2.44		
		295.0	295.6	0.6	0.050	1.76	0.41	294.1 295.0
		295.6	295.8	0.2	0.42	2.10	0.14	295.0 296.1
		295.8	296.1	0.3	0.26	0.73		
		296.1	296.4	0.3	0.17	0.44		
		296.4	297.1	0.7	0.014e	0.29		
LP-777 (6315)	No sample						0.020	305.1 305.9
		286.7	287.1	0.4	0.11	6.77	0.29	285.9 286.7
		287.1	287.3	0.2	0.078	0.81	0.047	286.7 287.9
		287.3	287.9	0.6	0.015e	2.79		
		287.9	288.3	0.4	0.10	1.49		
LP-782 (6325)		288.3	288.5	0.2	0.070	0.34		
		316.6	316.9	0.6	0.030	<0.10	0.027	312.6 313.5
							0.041	315.6 316.6
		303.4	303.7	0.3	0.011e	0.89	0.030	258.6 259.7
		303.7	304.6	0.9	0.035	1.30	0.031	303.2 304.5
LP-952 (6345)		304.6	305.4	0.8	0.013e	0.41	0.076	304.0 305.2
		314.6	314.9	0.3	0.031e	<0.10		
LP-953 (6348)								

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
Block G--Continued	From	To		U_3O_8	V_2O_5	CaCO_3	From	To
LP-955 (6350)	302.4	302.8	0.4	0.006e	0.72	0.3	304.0	305.2
	302.8	304.1	1.3	0.017e	2.43	0.2		
	304.1	305.0	0.9	0.016e	1.89	<0.1		
	305.0	306.5	1.5	0.092	2.75	<0.1		
LP-969 (6323)	No sample						276.0	276.8
LP-970 (6388)	350.6	351.4	0.8	0.021e	1.53	<0.1	343.6	345.1
LP-971 (6357)	305.3	306.0	0.7	0.053	1.55	0.5	304.4	305.4
LP-988 (6348)	333.5	334.8	1.3	0.12	<0.10	0.6	332.8	333.7
	334.8	335.1	0.3	0.050	<0.10	2.8		
	335.1	335.6	0.5	0.17	0.23	1.9		
	335.6	336.8	1.2	0.40	0.43	0.3		
	336.8	337.7	0.9	0.39	0.72	0.1		
	337.7	338.6	0.9	0.29	1.19	<0.1		
LP-998 (6467)	338.6	338.8	0.2	0.075	0.52	<0.1		
	338.9	339.7	0.9	0.11	0.21	<0.1		
	339.7	340.0	0.3	0.019e	0.36	Undet		
	449.0	449.7	0.7	0.024e	0.25	Undet	447.6	448.6
							0.043	1.0

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Block G--Continued	Assay data				Gamma-ray data			
		Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent U_3O_8	Thickness (feet)
		From	To			From	To		
					U_3O_8	V_2O_5	$CaCO_3$		
LP-1011 (6378)	Barren							0.033	324.7 325.8 1.1
LP-1012 (6327)		301.5	301.8	0.3	0.041	<0.10	5.0	0.19	301.3 302.7 1.4
		301.8	302.1	0.3	0.12	<0.10	5.0	0.068	302.7 304.3 1.6
		302.1	302.5	0.4	0.10	<0.10	5.2	0.29	304.3 305.1 0.8
		302.5	303.6	1.1	0.074	<0.10	0.4		
		303.6	304.8	1.2	0.059	<0.10	0.2		
		304.8	305.4	0.6	0.19	<0.10	0.2		
LP-1013 (6349)		322.7	323.3	0.6	0.15	2.45	3.1	0.039	321.3 322.3 1.0
		346.7	347.0	0.3	0.44	<0.1	3.4	0.024	333.1 334.6 1.5
								0.45	345.2 345.8 0.6
LP-1014 (6333)		303.7	304.0	0.3	0.085	<0.10	3.6	0.050	302.1 303.1 1.0
		308.6	309.1	0.5	0.012e	0.48	Undet	0.046	307.5 308.6 1.1
		309.1	309.7	0.6	0.042	<0.10	<0.1		
		309.7	310.0	0.3	0.028e	0.26	Undet		
		310.0	310.6	0.6	0.004e	0.18	Undet		
LP-1025 (6332)		333.3	333.6	0.3	0.14	<0.10	6.0	0.055	313.7 314.3 0.6
								0.057	329.7 330.5 0.057

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data		
	Depth in feet		Thickness (feet)	U ₃ O ₈	Percent V ₂ O ₅	CaCO ₃	Depth in feet		Thickness (feet)
	From	To					From	To	
Block G--Continued									
LP-1027 (6322)	296.6	297.1	0.5	0.014e	0.38	Undet	295.1	296.1	1.0
LP-1028 (6345)	222.0	222.3	0.3	0.056	0.10	13.4	306.9	307.7	0.8
Block H LP-225 (6489)	219.4	220.0	0.6	0.093	0.35	0.3	321.1	322.0	0.9
							108.4	109.3	0.7
							221.1	222.1	1.0
							263.2	264.0	0.8
LP-226 (6502)	263.0	266.7	3.7	0.002e	0.13	Undet	Barren		
LP-242 (6475)	267.3	267.9	0.6	0.003	0.25	0.3	268.6	269.3	0.7
	267.9	268.5	0.6	0.38	1.93	0.7			
LP-253 (6503)	244.9	246.3	1.4	0.008	0.12	1.4	246.6	247.6	1.0
	280.5	283.1	2.6	0.024	0.52	1.1	282.8	285.2	2.4

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
	From	To		U_3O_8	V_2O_5	CaCO_3	From	To
Block H--Continued								
LP-260 (6501)	284.9	286.2	1.3	0.025	0.24	0.8	255.1	257.6
	286.2	286.5	0.3	0.084	1.06	0.6		
	286.5	287.9	1.4	0.005	0.17	0.7	285.2	286.3
	289.1	289.3	0.2	0.004e	0.24	0.4	306.0	306.8
LP-281 (6420)	Barren						173.5	174.9
LP-530 (6489)	No sample							
							105.4	106.9
							111.1	112.0
							118.5	119.6
LP-797 (6462)	256.3	257.2	0.9	0.004e	0.73	<0.1	268.5	269.3
	257.2	257.5	0.3	0.025e	1.32	<0.1	96.0	96.8
	257.5	259.2	1.7	0.004e	0.51	<0.1	240.4	241.4
							255.6	256.5
LP-798 (6456)	256.6	257.1	0.5	0.002e	0.17	Undet	43.9	45.4
							241.1	242.0

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data			
	Depth in feet From	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	Percent $\frac{U_3O_8}{CaCO_3}$	Depth in feet From	Thickness (feet)	Thickness (feet)
Block H--Continued							
LP-804 (6501)	252.1	252.4	0.3	0.077	<0.10	6.5	
	254.4	255.0	0.6	0.077	0.16	7.6	
LP-805 (6516)	No sample						
	304.1	304.7	0.6	0.005e	0.22	Undet	
	304.7	305.3	0.6	0.050	0.58	0.3	
	305.3	305.8	0.5	0.006e	0.32	Undet	
LP-819 (6523)							
	152.1	154.2	0.020				2.1
	305.2	306.0	0.33				0.8
	311.5	312.8	0.021				1.3
LP-820 (6512)							
	285.1	285.7	0.6	0.006e	0.41	Undet	
	285.7	286.3	0.6	0.028e	0.73	0.3	
	286.3	286.5	0.2	0.014e	0.34	Undet	
	295.5	296.1	0.6	0.008e	0.22	Undet	
	295.2	296.1	0.048				0.9
	286.0	286.8	0.31				0.8
	121.1	123.1	>0.048				2.0
	128.2	129.6	0.039				1.4
	251.2	252.8	0.020				1.6
	254.0	255.2	0.051				1.2
	317.1	318.0	0.044				0.9
	143.2	144.7	0.031				1.5

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅				
Block H--Continued									
LP-821 (6507)	282.9	283.9	1.0	0.015e	0.58	0.3	283.0	284.2	1.2
	286.1	286.5	0.4	0.061	1.14	0.1	286.4	287.5	1.1
	286.5	287.7	1.2	0.011e	0.15	Undet	287.5	289.2	1.7
	287.7	288.5	0.8	0.056	0.29	0.3			
	288.5	289.7	1.2	0.011e	0.22	Undet			
LP-822 (6492)	275.7	277.2	1.5	0.015e	0.96	0.1	274.7	275.7	1.0
	277.2	278.7	1.5	0.004e	0.44	Undet	277.1	278.1	1.0
	279.9	280.2	0.3	0.031e	0.47	Undet	278.9	279.8	0.9
							302.3	303.3	1.0
LP-823 (6494)	232.1	232.4	0.3	0.030e	0.23	Undet	306.4	307.4	1.0
	235.5	235.8	0.3	0.020e	<0.10	Undet	231.5	232.6	1.1
	236.7	237.0	0.3	0.032e	0.12	Undet			
	237.0	237.7	0.7	0.008e	0.12	Undet			
LP-824 (6489)	No sample						206.1	207.7	1.6

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uruvan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		CaCO ₃	Percent U ₃ O ₈	Depth in feet		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅			From	To	
Block N--Continued										
LP-843 (6512)	229.0	229.3	0.3	0.024e	<0.10	Undet	0.033	114.4	116.7	2.3
	234.0	234.4	0.4	0.055	0.41	0.3	0.051	228.5	229.6	1.1
	237.5	238.5	1.0	0.19	0.67	1.8	0.091	232.7	233.6	0.9
	238.5	240.0	1.5	0.039	0.20	3.8	0.020	234.7	237.3	2.6
	240.4	240.8	0.4	0.039	0.26	0.2	0.52	237.3	238.4	1.1
LP-844 (6584)	348.6	350.1	1.5	0.039	0.47	0.5	0.043	349.2	350.8	1.6
LP-845 (6511)	267.9	269.0	1.1	0.003e	0.26	Undet	0.15	273.5	275.6	2.1
	274.3	275.9	1.6	0.065	0.35	1.7	0.25	275.6	276.5	0.9
	275.9	276.5	0.6	0.11	0.68	1.1	0.23	276.5	277.6	1.1
	276.5	277.1	0.6	0.23	1.32	1.3				
	277.1	277.7	0.6	1.14	3.74	0.7	0.088	279.2	280.5	1.3
	277.7	278.3	0.6	0.43	2.09	0.5				
	278.3	278.9	0.6	0.16	1.82	0.3				
	278.9	279.1	0.2	0.045	0.29	0.2				
	279.1	279.4	0.3	0.021e	0.21	Undet				
	279.4	280.3	0.9	0.028	0.35	0.4				
	280.3	282.3	2.0	0.012e	0.15	Undet				
	282.3	283.5	1.2	0.031e	0.38	Undet				
	283.5	284.7	1.2	0.009e	0.24	Undet				
284.7	285.5	0.8	0.005e	0.15	Undet					

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet	Thickness (feet)	Percent	Percent eU_3O_8	Depth in feet	Thickness (feet)
	From	To	U_3O_8	V_2O_5	From	To
Block H--Continued						
LP-846 (6573)	330.9	331.5	0.6	0.008e	1.44	0.2
	331.5	332.4	0.9	0.036e	1.59	<0.1
	332.4	333.3	0.9	0.006e	1.32	<0.1
	333.3	334.4	1.1	0.044	1.35	<0.1
	334.4	335.9	1.5	0.13	1.38	0.1
	335.9	336.8	0.9	0.31	1.56	0.2
	336.8	337.4	0.6	0.73	1.41	0.2
	337.4	337.8	0.4	0.14	0.68	0.1
LP-851 (6545)	312.2	313.4	1.2	0.048	0.29	0.4
	313.4	313.7	0.3	0.080	1.35	<0.1
	313.7	314.4	0.7	0.32	2.97	0.2
	314.4	314.7	0.3	0.12	0.32	<0.1
	314.7	316.5	1.8	0.040	0.41	0.7
	317.0	318.5	1.5	0.040	0.50	0.6
	319.0	320.2	1.2	0.068	0.38	0.1
	320.2	320.4	0.2	0.033e	0.38	Undet
LP-852-A (6543)	293.3	293.9	0.6	0.083	0.15	2.3
	294.2	295.7	1.5	0.034e	<0.10	Undet
	295.7	296.9	1.2	0.032	0.12	3.3
	297.2	297.5	0.3	0.022e	<0.10	Undet
	294.0	295.2	1.2	0.092	294.0	295.2
	295.2	296.6	1.4	0.023	295.2	296.6
296.6	297.9	1.3	0.038	296.6	297.9	
299.2	300.5	1.3	0.022	299.2	300.5	

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Thickness (feet)	Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅			From	To	
Block H--Continued										
LP-853 (6482)	255.0	255.3	0.3	0.012e	0.20	Undet	0.14	255.0	256.0	1.0
	255.3	256.2	0.9	0.10	1.05	0.8				
	256.2	256.8	0.6	0.026e	0.35	Undet				
LP-872 (6555)	258.5	258.8	0.3	0.052	1.25	0.6				
	327.5	327.7	0.2	0.041	0.21	0.5	0.032	326.6	327.3	0.7
	349.9	350.5	0.6	0.027e	<0.10	Undet	0.030	348.3	349.3	1.0
LP-873 (6555)	No sample						0.022	361.3	362.2	0.9
LP-874 (6566)	No sample						0.030	338.0	340.0	2.0
							0.020	378.8	379.8	1.0
LP-875 (6593)	337.5	338.3	0.8	0.45	1.14	0.9	0.47	336.5	337.4	0.9
	338.6	339.5	0.9	0.048	0.29	0.9	0.076	337.4	338.6	1.2
	342.7	343.3	0.6	0.037	0.20	0.8	0.050	341.6	342.7	1.1
LP-876 (6573)	No sample						0.039	333.1	334.2	1.1
LP-878 (6536)	287.8	288.8	1.0	0.92	4.51	0.5				
	302.1	302.5	0.4	0.004e	0.49	Undet	3.0	387.4	288.2	0.8

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uruvan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU_3O_8	Depth in feet		Thickness (feet)
				U_3O_8	V_2O_5		From	To	
Block H--Continued									
LP-905 (6515)	280.1	280.7	0.6	0.015e	0.52	0.2	Barren		
LP-906 (6576)	345.6	347.1	1.5	0.055	0.93	0.4	0.024	327.9	328.7
	347.1	348.3	1.2	0.033e	0.52	0.5			
	348.3	349.2	0.9	0.029e	0.26	Undet	0.082	344.7	345.9
	349.2	350.4	1.2	0.013	0.23	Undet	0.021	345.9	346.8
	350.4	351.2	0.8	0.004e	0.17	Undet	0.026	346.8	348.2
LP-907 (6512)	251.9	252.2	0.3	0.01e	0.11	Undet	0.60	251.7	252.4
	252.9	253.2	0.3	0.42	3.17	0.3	0.050	270.1	271.2
	253.2	253.5	0.3	0.12	1.33	<0.1			
	253.5	254.1	0.6	0.016e	0.66	1.6			
	255.9	256.6	0.7	0.012e	0.49	Undet			
LP-913 (6513)	270.3	271.4	1.1	0.008e	1.57	0.3			
	271.4	271.8	0.4	0.028e	1.60	0.2			
	291.5	292.5	1.0	0.011e	0.29	Undet	Barren		

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅		CaCO ₃	From	
Block H--Continued									
LP-914 (6523)	261.6	261.8	0.2	0.005e	0.12	Undet	265.1	268.5	3.4
	265.6	265.9	0.3	0.006e	0.22	Undet			
	265.9	266.2	0.3	0.34	2.31	0.5			
	266.2	267.3	1.1	0.088	0.81	0.5			
	267.3	267.6	0.3	0.15	0.69	1.3			
	267.6	268.8	1.2	0.15	1.72	0.2			
	268.8	269.2	0.4	0.11	2.16	<0.1			
	269.2	269.9	0.7	0.017e	0.37	Undet			
	275.0	275.3	0.3	0.022e	0.34	Undet			
	275.3	275.6	0.3	0.028e	0.81	0.2			
Block I LP-16 (6408)	275.6	276.5	0.9	0.007e	0.17	Undet			
	276.5	278.0	1.5	0.010e	0.15	Undet			
	365.4	365.7	0.3	0.021	<0.10	0.61			
	374.6	375.1	0.5	0.019	2.32	0.13			
	381.0	384.3	3.3	0.21	1.27	0.85			
LP-112 (6405)	384.3	387.0	2.7	0.22	2.26	1.07			
	387.0	388.1	1.1	0.11	2.11	1.04			
	374.8	375.1	0.3	0.012	0.13	7.7			
	412.9	413.2	0.3	0.032	<0.10	0.8			

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent			Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅	CaCO ₃				
Block I--Continued										
LP-121 (6410)	377.7	378.0	0.3	0.003e	0.20	1.5				
	378.0	378.5	0.5	0.099	1.85	0.4				
	378.5	379.3	0.8	0.012	0.10	1.3				
	380.0	382.0	2.0	0.062	0.15	1.4				
LP-132 (6417)	382.0	383.2	1.2	0.19	0.28	1.1				
	383.2	384.7	1.5	0.16	0.78	6.2				
	384.7	385.2	0.5	0.008e	0.15	Undet				
	409.4	409.9	0.5	0.021e	<0.10	0.7				
LP-139 (6404)	368.2	368.4	0.2	0.026	<0.10	0.6	0.029	358.8	359.7	0.9
LP-153 (6414)	Barren						0.033	414.7	415.4	0.7
							Barren			
LP-168 (6421)	358.8	360.3	1.5	0.013	0.11	4.5	0.025	406.5	407.6	1.1
							Barren			
LP-174 (6406)	399.0	399.8	0.8	0.006e	0.19	4.2	Barren			
LP-178 (6430)	416.0	416.5	0.5	0.005e	0.74	0.5	0.057	416.9	418.2	1.3
	416.8	418.6	1.8	0.040	<0.10	10.9				

OFFICIAL USE ONLY

Table 5.-Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data		
	Block I--Continued	Depth in feet		Thickness (feet)	Percent		Thickness (feet)
		From	To		U_3O_8	V_2O_5	
LP-185 (6382)		351.7	352.0	0.3	0.020	0.12	4.2
		391.2	391.7	0.5	0.007	0.16	4.5
LP-190 (6454)		382.7	383.2	0.5	0.010	2.24	2.9
		383.2	383.7	0.5	0.009	0.62	1.2
		449.3	450.1	0.8	0.022	<0.10	2.0
LP-212 (6504)		Barren					
LP-224 (6467)		436.6	436.9	0.3	0.023	<0.10	0.3
		451.3	451.6	0.3	0.041	<0.10	4.3
LP-244 (6518)		477.5	478.0	0.5	0.024	<0.10	1.6
		485.7	486.1	0.4	0.036	<0.10	0.9
LP-860 (6558)		436.9	438.4	1.5	0.008e	1.25	0.7
LP-896 (6685)		595.2	595.5	0.3	0.13	<0.10	5.4
		595.5	595.8	0.3	0.31	<0.10	4.7
LP-918 (6711)		No sample					
					0.027		
						630.7	631.7
							1.0
						415.7	416.8
					0.020		1.1
						382.4	383.5
					0.047		1.1
					0.029	439.1	440.0
							0.9
					0.043	480.4	481.3
					Barren		
						485.2	486.1
					0.028		0.9
					Barren		
						591.2	592.0
					0.065		0.8

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent U_3O_8	Thickness (feet)
	From	To		U_3O_8 V_2O_5 $CaCO_3$	From	To		
Flock I--Continued								
LP-919 (6619)	506.0	506.4	0.4	0.013e	0.64	1.4	0.033	0.6
	506.4	506.9	0.5	0.71	5.53	0.7		
	506.9	507.2	0.3	0.023	0.39	2.7	0.74	0.9
	507.2	507.6	0.4	0.12	0.32	1.4	0.076	1.4
	507.6	507.9	0.3	0.44	4.62	0.6		
LP-931 (6596)	511.1	512.3	1.2	0.003e	0.12	Undet	Barren	
	512.3	513.6	1.3	0.002e	0.11	Undet		
	527.4	529.0	1.6	0.003e	0.11	Undet		
	529.0	530.7	1.7	0.003e	0.13	Undet		
	530.7	532.2	1.5	0.002e	0.28	Undet		
LP-932 (6641)	597.0	597.3	0.3	0.042	0.12	1.4	0.039	0.8
	607.1	607.3	0.2	0.011e	1.47	0.5	0.020	0.8
LP-933 (6583)	477.2	477.5	0.3	0.038	<0.10	1.6	0.13	1.1
	477.8	478.3	0.5	0.053	0.34	0.3		
	478.3	478.9	0.6	0.13	1.97	0.2		
	478.9	479.7	0.8	0.016e	0.19	Undet		
LP-946 (6473)	No sample						0.024	1.0
LP-947 (6453)	397.3	397.6	0.3	0.012e	0.22	Undet		3.0
	397.6	397.9	0.3	0.028e	0.77	1.9	0.39	2.4
	397.9	398.6	0.7	0.006e	0.33	Undet	0.050	1.2
							0.70	0.9

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅		From	To	
Flock I--Continued									
LP-951 (6628)	520.2	520.8	0.6	0.32	6.22	0.2	516.4	519.4	3.0
	520.8	522.0	1.2	0.92	6.32	0.2	519.4	521.8	2.4
	522.0	522.3	0.3	0.47	2.03	0.6	521.8	523.0	1.2
	522.3	523.5	1.2	0.79	4.32	0.4	523.0	523.9	0.9
	523.5	524.1	0.6	0.16	0.59	0.8			
	524.1	525.0	0.9	0.51	1.36	1.2			
	525.0	525.6	0.6	0.042	0.20	1.2			
	525.6	525.9	0.3	0.027e	0.16	Undet			
	525.9	526.3	0.4	0.021	0.23	1.5			
	526.3	526.9	0.6	0.42	15.46	0.3			
	526.9	527.3	0.4	0.007e	0.57	0.8			
LP-956 (6659)	568.7	569.7	1.0	0.001e	0.78	0.5	584.3	585.0	0.7
LP-957 (6601)	477.8	479.3	1.5	<0.001e	0.14	Undet			Barren

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No., and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅		From	To	
Block I--Continued									
LP-958 (6477)	345.6	346.2	0.6	0.007e	0.16	0.043	345.8	347.8	2.0
	346.2	346.8	0.6	0.014e	0.43				
	346.8	347.1	0.3	0.10	0.17	0.94	351.3	352.1	0.8
	347.8	348.3	0.5	0.023e	<0.10	0.45	359.7	360.8	1.1
	350.5	350.8	0.3	0.067	<0.10				
	351.7	352.0	0.3	0.024	0.10				
	352.0	352.7	0.7	0.65	4.86				
	352.7	352.9	0.2	0.014e	0.48				
	359.8	361.1	1.3	0.25	2.88				
	361.1	361.3	0.2	0.21	0.36				
	361.3	362.1	0.8	0.042	0.23				
	363.8	364.1	0.3	0.001e	0.23				
LP-959 (6512)	368.1	369.0	0.9	0.003e	0.30	Barren			
	369.0	370.4	1.4	0.009e	0.54				
LP-960 (6393)	366.2	367.0	0.8	0.008e	0.13	0.021	366.0	367.0	1.0
LP-961 (6409)	No sample					0.042	348.9	349.8	0.9
						0.027	407.8	408.5	0.7

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data								
	Depth in feet From To	Thickness (feet)	Percent		CaCO ₃	Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)					
			U ₃ O ₈	V ₂ O ₅										
Block I--Continued														
LP-1001 (6552)	420.9	421.7	0.8	0.002e	0.18	Undet	0.067	420.1	420.9	0.8				
	421.7	422.2	0.5	0.032	2.71	0.2								
	422.2	422.5	0.3	0.002e	0.18	Undet								
LP-1015 (6592)	489.7	490.8	1.1	0.73	0.84	5.7	0.76	489.0	490.0	1.0				
	534.5	535.8	1.3	0.002e	0.20	Undet					0.028	536.0	536.8	0.8
	526.5	528.3	1.7	0.002e	0.15	Undet								
LP-1016 (6575)	529.4	529.7	0.3	0.012e	0.18	Undet	0.11	433.3	434.4	1.1				
	529.7	530.0	0.3	0.12	0.20	1.9					0.14	435.8	436.5	0.7
	530.0	530.4	0.4	0.005e	0.46	Undet								
530.4	531.9	1.5	0.003e	0.18	Undet									
	531.9	533.4	1.5	0.003e	0.20	Undet								
	533.2	534.6	1.2	0.003e	0.31	Undet								
	534.6	535.2	0.6	0.015e	1.02	0.7								
	535.2	535.5	0.3	0.014e	0.36	Undet								
	535.5	535.7	0.2	0.30	0.31	2.2								
	537.4	537.7	0.3	0.15	0.20	2.3								

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent U_3O_8	Thickness (feet)
	From	To		U_3O_8		From	To	
Block I--Continued								
LP-1019 (6563)	443.8	445.3	1.5	0.034	0.13	440.7	443.5	2.8
	445.3	446.8	1.5	0.027e	<0.10	443.5	444.6	1.1
	448.0	449.2	1.2	0.004e	0.10	457.2	458.1	0.9
LP-1020 (6547)	449.3	449.5	0.2	0.003e	0.12			
	449.6	449.7	0.1	0.003e	0.10			
	415.7	416.0	0.3	0.005e	0.23	414.8	415.8	1.0
	416.0	416.3	0.3	0.027e	1.19			
LP-1021 (6576)	416.3	416.7	0.4	0.013e	0.60			
	470.2	470.6	0.4	0.081	1.07	458.5	459.2	0.7
LP-1023 (6681)	571.5	571.7	0.2	0.008e	0.38	567.1	568.7	1.6
	571.7	572.6	0.9	2.21	5.36			
	572.6	573.5	0.9	1.62	7.36	572.8	573.5	0.7
	573.5	574.3	0.8	0.060	0.23	594.9	595.8	0.9
	574.3	574.6	0.3	0.030e	<0.10			
	578.3	578.6	0.3	0.025	0.13	596.2	597.0	0.8
	599.7	600.0	0.3	0.036	0.54			
	600.0	600.3	0.3	0.14	0.51			
	600.3	602.1	1.8	0.004e	0.15			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₂ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅				
Block I--Continued									
LP-1024 (6683)	No sample					0.021	609.9	610.6	0.7
LP-1032 (6691)	594.3	594.8	0.5	<0.001e	0.40	0.044	608.5	609.2	0.7
	608.9	609.5	0.6	0.045	0.15				
LP-1034 (6577)	468.9	469.5	0.6	0.094	0.28	0.036	465.6	466.9	1.3
	469.5	470.1	0.6	0.30	0.43	0.034	466.9	467.6	0.7
	470.1	470.4	0.3	0.09	<0.10	0.29	467.6	469.3	1.7
	470.4	470.9	0.5	0.18	0.15	>4.0	469.3	470.2	0.7
	470.9	471.1	0.2	2.41	7.09				
	471.1	472.4	1.3	1.09	0.70				
	472.4	473.1	0.7	0.022e	0.20				
LP-1042 (6452)	No sample					0.034	360.4	361.1	0.7
LP-1056 (6505)	Barren					0.028	405.5	406.3	0.8
LP-1062 (6555)	Barren					0.023	501.3	502.1	0.8

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
	From	To		U_3O_8 V_2O_5 CaCO_3	From	To		
Block I--Continued								
LP-1063 (6611)	499.7	500.0	0.3	0.66	7.87	0.4	0.035	487.9 489.1
	500.0	500.7	0.7	0.079	0.20	1.9		
	503.2	503.5	0.3	0.057	0.17	1.2	1.1	496.7 497.7
	503.5	504.1	0.6	0.80	1.37	0.7	1.6	501.0 501.7
	504.1	504.7	0.6	1.06	10.05	0.4	0.020	522.3 523.3
LP-1077 (6589)	525.0	525.3	0.3	0.031e	0.16	0.4	0.021	557.6 558.4
	525.3	525.5	0.2	0.003e	0.50	1.2		
	481.6	482.2	0.6	0.051	0.33	0.35	0.028	479.3 480.3
	482.2	482.4	0.2	0.006e	0.16	Undet		
	581.7	582.0	0.3	0.13	5.25	0.28	>10.0	581.1 581.9
LP-1078 (6676)	582.0	583.0	1.0	0.004e	0.17	Undet		
	583.0	583.8	0.8	2.42	3.38	2.94	0.028	596.6 597.2
	583.8	584.2	0.4	0.73	0.56	4.14		
	584.2	584.6	0.4	0.40	0.49	0.35		
	462.9	463.2	0.3	0.030e	<0.10	Undet	0.030	458.6 459.4
LP-1079 (6555)							0.025	513.1 573.8
	355.6	356.6	1.0	1.21	6.15	0.98	1.8	355.2 355.9
	356.6	356.9	0.3	0.032e	0.19	Undet		
	357.5	357.8	0.3	0.031	0.44	0.98		

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent eU_2O_8	Thickness (feet)
	From	To		U_3O_8 V_2O_5 $CaCO_3$	From	To		
Block I--Continued								
LP-1081 (6711)	No sample						0.023	0.6
LP-1083 (6492)	358.4	358.8	0.4	0.005e 0.28 Undet	357.9	358.7	0.039	1.2
LP-1084 (6686)	632.1	633.0	0.9	<0.001e 0.40 Undet	635.2	635.9	0.11	0.7
	634.5	635.1	0.6	0.12 <0.10 0.35				
LP-1086 (6512)	429.4	432.6	3.2	0.11 0.28 0.45	478.8	480.0	0.023	1.2
	432.6	432.9	0.3	0.16 1.86 0.24				
	432.9	433.3	0.4	0.058 2.24 0.20	497.7	498.8	0.022	1.1
	433.3	433.8	0.5	0.010e 0.68 0.18				
LP-1088 (6484)	No sample				460.9	461.7	0.020	0.8
LP-1089 (6374)	305.1	305.3	0.2	0.058 0.16 0.84	303.7	304.4	0.037	0.7
	308.9	309.2	0.3	0.022e <0.10 Undet				
	309.2	309.8	0.6	0.065 <0.10 0.49	308.1	309.2	0.58	1.1
	309.8	310.4	0.6	0.12 <0.10 0.35	312.6	313.4	0.13	0.8
	310.4	310.7	0.3	0.021e <0.10 Undet				
	314.0	315.0	1.0	0.17 0.21 0.42				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
	From	To		U_3O_8		To		
Block I--Continued								
LP-1090 (6468)	No sample							
LP-1092 (6455)	396.9	397.2	0.3	0.008e	0.35	422.2	0.027	0.6
	397.2	397.8	0.6	0.005e	0.19	467.3	0.022	0.7
LP-1094 (6570)	483.8	484.1	0.3	0.093	<0.10	413.7	0.023	0.9
	487.8	488.4	0.6	0.081	<0.10	485.0	0.028	1.1
LP-1096 (6545)	421.0	421.3	0.3	0.068	0.53	421.3	1.8	1.5
	421.3	422.0	0.7	2.04	5.24	422.8	1.0	1.0
	422.0	422.7	0.7	1.10	5.96			
	422.7	423.3	0.6	1.03	11.55			
	423.3	424.3	1.0	0.33	3.76			
	424.3	424.9	0.6	0.034e	0.40			
No sample								
LP-1097 (6459)						371.6	0.080	0.7
LP-1098 (6508)	375.8	376.7	0.9	0.25	2.04	376.2	0.50	0.7
	376.7	377.0	0.3	0.065	2.62	380.6	0.25	1.0
	380.8	381.2	0.4	0.022e	2.44			
	381.2	381.5	0.3	0.024e	1.00			
	381.5	382.3	0.8	0.003e	2.18			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent U ₃ O ₈ V ₂ O ₅ CaCO ₃	Depth in feet From To	Percent eU ₂ O ₈	Thickness (feet)
Block I--Continued						
LP-1101 (6503)	363.8	364.2	0.4	0.51	4.38	0.57
	364.2	364.4	0.2	1.02	2.20	0.61
	364.4	364.8	0.4	0.10	0.74	0.31
	365.6	366.0	0.4	0.014e	0.44	Undet
	366.0	366.5	0.5	0.10	1.94	1.38
LP-1102 (6412)	374.4	374.7	0.3	0.013e	0.25	Undet
	374.7	375.3	0.6	0.18	0.35	1.87
	375.3	375.9	0.6	0.66	6.59	0.61
	No sample					
LP-1103 (6428)	No sample					
LP-1107 (6440)	No sample					
LP-1137 (6501)	363.5	364.5	1.0	0.001e	0.12	Undet
	364.5	364.9	0.4	0.002e	0.33	Undet
	364.9	366.2	1.3	<0.001e	0.14	Undet
	366.2	366.5	0.3	0.002e	1.36	0.5
	366.5	366.8	0.3	0.012	1.45	0.4
	366.8	367.2	0.4	0.30	2.02	1.0
	367.2	367.4	0.2	0.027e	0.70	3.2
	367.4	367.7	0.3	0.005e	0.33	Undet

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU_3O_8	Depth in feet		Thickness (feet)
				U_3O_8	V_2O_5		From	To	
Block I--Continued									
LP-1143 (6456)	370.9	371.4	0.5	0.004e	0.12	Undet	408.9	409.6	0.7
	409.8	410.4	0.6	0.009e	0.30	Undet			
LP-1144 (6689)	No sample								
LP-1145 (6677)	Barren								
LP-1147 (6562)	430.4	430.7	0.3	0.002e	0.28	Undet	430.0	430.8	0.8
	430.7	431.7	1.0	0.33	3.96	0.4			
	431.7	431.9	0.2	0.052	2.60	0.3	436.4	436.9	0.5
	431.9	432.2	0.3	0.016e	1.13	2.3			
	432.2	432.5	0.3	0.13	0.98	1.6	437.8	438.5	0.7
	432.5	432.7	0.2	0.009e	0.42	Undet			
LP-1148 (6408)	354.8	355.4	0.6	0.005e	0.23	Undet			
LP-1162 (6404)	331.4	332.0	0.6	0.045	0.12	0.6	326.4	327.0	0.6
	332.0	332.5	0.5	0.004e	0.12	Undet			
	332.5	333.6	1.1	0.003e	0.49	Undet	329.8	331.7	1.9
	333.6	335.4	1.8	0.004e	0.23	Undet			
	335.4	335.7	0.3	0.002e	0.23	Undet			
	335.7	336.9	1.2	0.005e	0.30	Undet			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.---Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
	From	To		U_3O_8 V_2O_5 CaCO_3	From	To		
Block I--Continued								
LP-1163 (6398)	333.4	333.6	0.2	0.10 0.11 0.6	309.5	310.3	0.035	0.8
	335.7	336.0	0.3	0.063 1.36 0.2	329.1	329.8	0.030	0.7
	336.0	336.4	0.4	0.35 3.78 0.5				
	336.4	336.7	0.3	0.23 1.45 1.0			0.42	0.8
	336.7	337.6	0.9	0.043 0.23 1.4	335.1	335.9		
	337.6	338.3	0.7	0.003e 0.11 Undet				
	340.0	341.5	1.5	0.003e 0.11 Undet				
LP-1168 (6494)	341.5	343.1	1.6	0.001e 0.11 Undet				
	353.9	354.8	0.9	0.084 2.24 0.2	354.2	355.0	2.4	0.8
	354.8	355.8	1.0	1.12 5.47 0.6				
	355.8	356.4	0.6	0.56 2.58 0.3				
	356.4	356.8	0.4	0.017e 0.59 0.2				
LP-1170 (6603)	481.0	482.2	1.2	0.003e 0.36 Undet	490.6	491.4	0.025	0.8
LP-1172 (6614)	498.4	499.2	0.8	0.002e 0.11 Undet	481.8	482.6	0.027	0.8
					509.8	510.6	0.032	0.8
LP-1175 (6609)	489.3	490.2	0.9	0.002e 0.18 Undet			Barren	
	490.2	490.9	0.7	0.002e 0.88 1.7				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
	From	To		U_3O_8		From	To	
Block J								
LP-325 (6395)	484.2	484.7	0.5	0.035	18.6	349.2	352.0	2.8
	484.7	485.7	1.0	0.12	36.5	352.0	352.8	0.8
LP-690 (6436)	No sample					485.6	486.3	0.7
LP-695 (6360)	No sample					390.8	391.7	0.9
	No sample					523.0	524.0	1.0
LP-700 A (6402)	No sample					310.3	311.5	1.2
LP-1108 (6366)	308.1	309.0	0.9	0.038	0.5	350.6	353.0	2.4
LP-1109 (6440)	389.6	390.0	0.4	0.23	0.3	389.0	389.8	0.8
	390.0	390.4	0.4	0.019e	0.3			
LP-1114 (6342)	285.9	286.5	0.6	0.020	0.4	284.6	285.6	1.0
	286.5	286.8	0.3	0.27	0.3			
LP-1165 (6424)	513.5	514.2	0.7	<0.001e	Undet	526.0	526.6	0.6

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent			Percent eU ₂ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅	CaCO ₃				
Block J--Continued										
LP-1166 (6422)	387.3	387.5	0.2	0.027e	0.11	Undet	0.49	387.7	388.9	1.2
	387.6	388.0	0.4	0.10	0.50	1.6	0.025	530.6	531.2	0.6
	388.0	388.2	0.2	0.36	4.89	1.4				
	388.2	388.5	0.3	0.50	2.37	1.4				
	388.5	390.0	1.5	0.30	4.02	1.6				
	390.0	391.0	1.0	0.029e	0.50	4.4				
	391.0	391.5	0.5	0.012e	0.29	Undet				
	362.7	363.0	0.3	0.030e	<0.10	Undet	0.51	372.1	372.9	0.8
LP-1201 (6424)	369.4	370.0	0.6	0.028e	<0.10	Undet				
	370.0	371.0	1.0	0.28	1.40	1.09				
	383.1	383.3	0.2	0.026e	<0.10	Undet	0.42	383.8	384.5	0.7
	383.3	383.6	0.3	0.099	0.29	0.54				
	383.6	383.9	0.3	0.26	1.13	0.26	0.38	390.2	391.0	0.8
	383.9	384.2	0.3	0.12	1.30	0.31				
LP-1202 (6415)	384.2	384.4	0.2	0.026e	0.87	0.45				
	389.8	390.5	0.7	0.35	2.94	4.86				
	390.5	391.0	0.5	0.021e	<0.10	Undet				
	388.6	389.6	1.0	0.021e	0.68	0.49	0.028	389.9	391.2	1.3
	398.3	399.0	0.7	0.043	1.76	2.49	0.036	400.0	401.2	1.2

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uruan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
	From	To		U_3O_8	V_2O_5	CaCO_3	From	To
Block J--Continued								
LP-1215 (6389)	331.7	332.1	0.4	0.061	0.55	0.26	329.5	330.5
	332.1	333.5	1.4	0.007e	0.43	Undet		
LP-1216 (6363)	299.0	299.7	0.7	0.009e	0.27	Undet	297.9	299.0
	301.3	301.6	0.3	0.030e	0.39	Undet	300.9	301.5
LP-1231 (6401)	301.6	302.4	0.8	0.016e	0.31	Undet	301.5	302.4
	Barren						339.7	340.8
Block K								
LP-1128 (6389)	406.7	407.2	0.5	0.029e	<0.10	Undet	406.6	407.4
	413.6	414.3	0.7	0.002e	0.11	Undet		
LP-1129 (6355)	405.0	405.3	0.3	0.038	0.28	3.6	407.5	408.2
	343.9	344.2	0.3	0.40	1.15	1.4	343.2	344.0
LP-1131 (6261)	344.2	344.6	0.4	0.028e	0.27	Undet	344.0	345.0
	344.6	345.3	0.7	0.058	0.13	1.7		
	345.9	346.5	0.6	0.14	0.11	7.5	346.4	347.6
	346.5	346.8	0.3	0.11	0.23	2.7	347.6	348.6
	346.8	347.7	0.9	0.26	0.25	1.8	348.6	349.0
	347.7	348.0	0.3	0.079	0.50	2.5	349.0	350.1
	348.0	349.2	1.2	0.12	0.59	1.8		
	349.2	349.5	0.3	0.030e	0.23	Undet		
	349.5	350.2	0.7	0.079	0.27	5.7		
	350.2	350.5	0.3	0.041	<0.10	3.9		

OFFICIAL USE ONLY

Table 5.-Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

OFFICIAL USE ONLY

Table 5.—Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.—Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
Block K—Continued	From	To		U_3O_8	V_2O_5	CaCO_3	From	To
LP-1219 (6242)	326.3	326.6	0.3	0.077	0.19	0.6	325.8	326.4
	330.7	331.0	0.3	0.014e	0.31	Undet	330.7	331.5
	331.0	331.6	0.6	0.32	0.26	0.4		
	331.6	332.2	0.6	0.034e	<0.10	Undet		
	336.3	338.1	1.8	0.032e	0.92	1.4		
	338.1	338.7	0.6	0.084	1.48	0.8		
	338.7	339.0	0.3	0.24	1.70	1.0		
	339.0	339.1	0.1	0.21	1.91	2.0		
	339.1	340.0	0.9	0.23	2.00	1.2		
	340.0	341.3	1.3	0.14	1.46	1.8		
LP-1220 (6255)	337.3	337.9	0.6	0.048	<0.10	5.40	212.5	213.2
	338.7	339.0	0.3	0.094	0.60	0.69		
	339.0	339.8	0.8	0.24	0.36	0.90	335.3	336.7
	339.8	340.3	0.5	0.27	0.77	0.45		
	340.3	341.1	0.8	0.14	0.34	0.64	336.7	337.4
	341.1	341.8	0.7	0.092	0.70	7.20		
	341.8	342.6	0.8	0.14	0.82	9.21	338.6	340.2
	342.6	342.8	0.2	0.054	<0.10	11.19	340.2	341.4
	342.8	343.1	0.3	0.15	<0.10	8.10	341.4	342.5
	343.1	343.7	0.6	0.19	0.14	7.50	342.5	343.9
	343.7	344.3	0.6	0.18	0.63	2.38	343.9	344.9
	344.3	344.6	0.3	0.10	0.34	2.52		
	344.6	345.0	0.4	0.050	1.06	0.77	347.8	348.7
	345.0	345.6	0.6	0.093	0.31	4.41		
	345.6	346.8	1.2	0.004e	0.75	1.15	352.9	353.6
	346.8	347.9	1.1	0.003e	0.41	Undet		
	347.9	348.2	0.3	0.014e	0.82	0.79		
	348.2	348.9	0.7	0.014e	1.38	0.49		
	348.9	349.7	0.8	0.001e	1.35	0.15		

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data		
	Block K--Continued	Depth in feet From To	Thickness (feet)	Percent		Depth in feet From To	Thickness (feet)
				U ₃ O ₈	V ₂ O ₅ CaCO ₃		
LP-1221 (6167)	No sample						
					0.032	302.1 302.9	0.8
					0.022	306.1 306.5	0.4
LP-1223 (6184)	No sample				0.050	316.0 316.6	0.6
					0.035	321.4 322.1	0.7
					0.036	290.9 291.7	0.8
LP-1224 (6147)		293.4 293.7	0.3	0.063 <0.10	0.49		
		303.8 304.1	0.3	0.052 <0.10	5.67		
		325.8 326.3	0.5	0.003e 0.68	2.0		
LP-1271 (6217)		333.1 333.4	0.3	0.010e 0.59	0.5		
		333.4 334.3	0.9	0.073 0.073	0.9		
					0.022	324.5 325.6	1.1
					0.030	332.6 333.6	1.0

OFFICIAL USE ONLY

174

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅		From	To	
Block K--Continued LP-1272 (6237)	333.0	333.6	0.6	0.077	1.55	0.48	333.2	334.0	0.8
	333.6	333.9	0.3	0.71	3.79	0.021	334.0	336.8	2.8
	333.9	334.6	0.7	0.13	0.33	1.00	336.8	337.4	0.6
	334.6	335.2	0.6	0.35	0.33	0.25	337.4	339.8	2.4
	335.2	335.8	0.6	0.077	0.19	1.10	339.8	340.7	0.9
	337.3	337.6	0.3	2.37	19.84	0.17	346.1	347.2	1.1
	338.5	340.8	2.3	0.059	0.19	0.026	358.1	358.9	0.8
	341.0	341.6	0.6	0.051	1.30				
	341.6	342.0	0.4	0.010e	1.08				
	342.0	343.0	1.0	0.004e	0.14				
343.0	343.3	0.3	0.004e	1.27					
343.3	343.6	0.3	0.007e	2.05					
343.6	344.0	0.4	0.48	1.51					
344.0	345.0	1.0	0.012e	0.94					
345.0	345.6	0.6	0.017e	1.18					
345.6	346.0	0.4	0.032	1.44					
346.0	346.6	0.6	0.25	0.85					
346.6	347.0	0.4	0.079	0.21					
347.0	347.4	0.4	0.10	0.52					

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent			Percent eU ₂ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅	CaCO ₃				
Block K--Continued										
LP-1274 (6256)	No sample						0.022	177.5	178.7	1.2
							0.045	356.6	357.1	0.5
LP-1275 (6277)	349.2	350.2	1.0	0.45	2.71	0.6	0.027	230.0	230.9	0.9
	357.4	357.7	0.3	0.030	1.04	0.9	0.68	350.0	350.7	0.7
							0.046	357.8	358.5	0.7
LP-1277 (6197)	328.6	329.6	1.0	0.004e	0.21	Undet	0.024	328.5	329.7	1.2
	329.6	331.1	1.5	0.006e	0.46	Undet				
	331.1	331.4	0.3	0.032e	0.67	0.1	0.50	333.1	333.8	0.7
	331.4	332.4	1.0	0.17	0.79	0.2	0.30	336.7	337.4	0.7
	335.7	336.1	0.4	0.13	<0.10	8.3				
	342.8	343.6	0.8	0.081	<0.10	7.3	0.10	343.9	344.9	1.0
LP-1278 (6211)	332.6	334.1	1.5	0.058	<0.10	4.8	0.10	335.5	336.6	1.1
							0.025	337.7	338.4	0.7
							0.040	339.4	340.1	0.7
LP-1280 (6213)	320.0	320.3	0.3	0.023e	<0.10	Undet	0.054	323.9	324.9	1.0
	320.3	320.7	0.4	0.058	<0.10	1.2				
	320.7	321.6	0.9	0.061	<0.10	0.6	0.033	337.5	338.2	0.7

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data		
	Depth in feet From	Thickness (feet)	Percent		Depth in feet From	To	Thickness (feet)
Block K--Continued			U ₃ O ₈	V ₂ O ₅	CaCO ₃	Percent eU ₂ O ₈	
LP-1291 (6237)	No sample					0.031	229.4 230.1 0.7
LP-1292 (6300)	366.0	366.3	0.070	0.14	0.4	Not probed	
	366.3	366.6	0.014e	0.44	Undet		
	366.6	367.2	0.042e	0.95	0.2		
	367.2	367.5	0.019e	1.04	0.2		
	367.5	368.5	0.009e	0.77	0.3		
	368.5	369.1	0.034e	0.46	Undet		
LP-1293 (6315)	370.7	371.0	0.023e	0.77	0.5		
	371.0	371.3	0.075	<0.10	1.7		
	379.8	380.1	0.085	<0.10	5.1	0.33	380.1 381.7 1.6
	380.1	381.0	0.17	<0.10	5.1		
	381.0	382.0	0.17	0.84	1.1	0.10	382.7 383.5 0.8
	382.0	382.7	0.068	<0.10	2.6		
	383.6	383.8	0.036	0.56	1.2	0.40	395.9 397.2 1.3
	383.8	384.3	0.008e	1.44	0.2	0.13	397.2 398.6 1.4
	395.8	397.1	0.38	0.46	2.7		
	397.1	398.4	0.20	1.28	1.7		
	398.4	399.1	0.059	0.58	1.6		
	399.1	399.4	0.031e	0.26	Undet		

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent	Thickness (feet)
	From	To		$\frac{U_3O_8}{V_2O_5}$	$\frac{CaCO_3}{V_2O_5}$	From	To	
Block K--Continued								
LP-1294 (6295)	359.3	359.6	0.3	0.006e	0.67	0.2		
	363.7	365.0	1.3	0.34	0.18	0.3		
	365.0	365.8	0.8	0.95	2.48	0.3		
	365.8	366.7	0.9	0.29	0.57	0.2		
	366.7	367.0	0.3	0.20	2.09	1.5		
	367.0	367.2	0.2	0.12	0.95	1.9		
	367.2	367.9	0.7	0.024e	1.72	2.2		
	367.9	368.4	0.5	0.004e	0.58	0.4		
	368.4	369.6	1.2	0.002e	0.44	Undet		
	371.1	371.9	0.8	0.002e	0.23	Undet		
LP-1297 (6181)	378.5	378.8	0.3	0.014e	0.26	Undet		
	378.8	379.3	0.5	0.084	0.65	0.4		
	302.0	302.3	0.3	0.044e	0.63	0.4		
LP-1299 (6205)	304.3	305.0	0.7	0.056	<0.10	0.2		
	322.6	323.1	0.5	0.094	0.53	0.6		
	323.4	323.8	0.4	0.061	0.14	1.5		
	326.0	326.6	0.6	0.10	0.23	1.2		
	328.8	329.1	0.3	0.041e	0.84	0.6		
	329.1	329.6	0.5	0.006e	0.23	Undet		
	329.6	330.1	0.5	0.002e	0.28	Undet		
	302.7	303.6	0.9	0.026				
	305.3	306.0	0.7	0.040				
	324.6	325.5	0.9	0.023				
	325.5	326.0	0.5	0.11				
	328.1	328.8	0.7	0.11				
	330.6	331.4	0.8	0.021				

116

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Thickness (feet)	Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅			From	To	
Block K--Continued										
LP-1300 (6204)	329.5	330.0	0.5	0.047	0.33	0.6	0.077	331.0	331.6	0.6
LP-1315 (6301)	358.3	358.9	0.6	0.034e	0.14	Undet	0.031	362.7	363.4	0.7
	359.3	359.6	0.3	0.034e	<0.10	Undet	0.035	366.1	366.9	0.8
	359.6	359.8	0.2	0.76	0.40	1.2				
	359.8	360.4	0.6	0.050	0.67	0.8	0.24	368.2	369.0	0.8
	360.4	361.0	0.6	0.020e	0.47	Undet				
LP-1316 (6332)	386.1	386.6	0.5	0.024e	0.37	Undet	0.033	386.8	387.7	0.9
	387.6	387.9	0.3	0.026e	0.23	Undet	0.045	388.5	389.5	1.0
	387.9	388.5	0.6	0.036e	0.30	Undet	0.056	389.5	389.9	0.4
							0.055	389.9	390.6	0.7
	390.3	390.5	0.2	0.042e	0.19	Undet				
	390.5	390.7	0.2	0.21	0.28	0.7	0.100	391.6	392.3	0.7
	390.7	391.0	0.3	0.018e	0.86	0.4	0.043	392.3	392.7	0.4
	391.0	391.5	0.5	0.016e	1.09	0.5	0.096	392.7	393.3	0.6
	391.5	391.7	0.2	0.15	1.58	1.2				
391.7	392.4	0.7	0.006e	1.00	0.6	0.030	397.5	398.5	1.0	
LP-1322 (6378)	395.9	397.0	1.1	0.012e	0.88	0.9				
	428.7	429.0	0.3	0.21	0.31	13.3	0.021	310.5	311.7	1.2
	429.0	431.0	2.0	0.011e	0.76	0.6	0.024	423.9	424.6	0.7
							0.20	429.7	430.3	0.6
							0.026	431.6	432.5	0.9

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet From	Depth in feet To	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	Percent $\frac{CaCO_3}{V_2O_5}$	Depth in feet From	Depth in feet To	Thickness (feet)
Block K--Continued								
LP-1323 (6370)	415.6	416.9	1.3	0.005e	0.85	0.2		
	418.4	418.9	0.5	0.002e	0.47	Undet		
LP-1324 (6346)	No sample							
LP-1339 (6205)	319.8	320.4	0.6	0.15	0.21	4.6		
LP-1341 (6105)	262.6	263.2	0.6	0.044	0.14	3.6		
	263.2	264.0	0.8	1.10	0.19	7.8		
	264.0	264.6	0.6	0.32	0.16	7.0		
	264.6	264.9	0.3	0.084	<0.10	12.1		
LP-1342 (6212)	No sample							
LP-1359 (6225)	343.1	343.6	0.5	0.031e	<0.10	2.29		
	343.6	344.1	0.5	0.073	0.16	3.63		
	345.4	345.7	0.3	0.024e	0.56	0.87		
	345.7	346.1	0.4	0.050	<0.10	0.82		

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent		Percent eU_2O_8	Depth in feet		Thickness (feet)
	From	To		U_3O_8	V_2O_5		CaCO ₃	From	
Block K--Continued									
LP-1361 (6330)	380.8	380.9	0.1	0.22	0.41	0.26	389.7	390.6	0.9
	389.2	389.8	0.6	0.084	0.23	0.40	414.9	416.6	1.7
	389.8	390.4	0.6	0.30	0.34	2.96	416.6	417.7	1.1
	390.4	390.8	0.4	0.20	0.39	1.67			
	413.8	414.3	0.5	0.091	<0.10	7.80			
	414.3	414.8	0.5	0.48	<0.10	7.20			
	414.8	415.3	0.5	0.13	<0.10	7.50			
	415.3	416.0	0.7	0.37	<0.10	7.50			
	416.0	416.5	0.5	0.14	<0.10	9.21			
	416.5	416.9	0.4	1.20	0.11	12.69			
LP-1367 (6364)	416.9	417.6	0.7	0.22	<0.10	12.36			
	389.5	390.4	0.9	0.051	0.13	2.70	391.1	392.1	1.0
	399.7	400.1	0.4	0.002e	0.95	5.10	411.1	412.1	1.0
	408.7	409.6	0.9	0.007e	0.96	0.20	434.6	435.7	1.1
	409.6	410.0	0.4	0.10	0.78	0.24			
	410.0	410.4	0.4	0.16	0.58	0.64			
	410.4	411.0	0.6	0.35	1.08	0.24			
	411.0	411.3	0.3	0.13	0.47	0.26			
	411.3	412.0	0.7	0.013e	0.40	0.26			
	263.7	264.6	0.9	0.033e	<0.10	Undet	262.7	263.4	0.7
LP-1368 (6102)	265.2	266.1	0.9	0.032e	0.20	Undet	263.4	264.3	0.9
							264.3	265.9	1.6

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	Depth in feet From	To	Thickness (feet)
Block K--Continued						
LP-1370 (6328)	365.4	0.4	0.043	0.042	366.5	367.3
	388.2	0.6	0.041	1.05	381.8	382.4
	393.7	0.3	0.029e	Undet	390.7	391.5
	407.1	1.5	0.027e	Undet	409.4	410.7
	409.9	0.7	0.025	11.10	412.1	412.8
	410.9	0.4	0.027e	Undet	412.8	413.5
	411.3	0.7	0.027e	Undet	413.5	414.3
	438.5	0.7	0.067	0.31	442.6	443.6
	441.7	0.7	0.022e	0.49	450.2	451.1
	448.2	0.9	0.12	3.33	451.1	452.9
LP-1371 (6414)	449.1	0.3	0.096	2.70	466.5	467.5
	449.4	0.6	0.21	4.68		
	450.0	0.1	0.14	4.02		
	450.1	0.6	0.069	2.94		
	450.7	0.4	0.011e	Undet		
	451.1	1.1	0.005e	Undet		
	452.2					

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent eU_{308}	Thickness (feet)
Block I	From	To		U_{308}	V_{205}	$CaCO_3$	From	To
LP-1255 (6382)	510.5	511.1	0.6	0.021e	0.10	Undet	512.1	513.0
	511.1	511.4	0.3	0.12	<0.10	6.5		
	532.9	533.2	0.3	0.023	0.38	2.5	532.8	533.5
	533.2	533.5	0.3	0.43	0.28	4.0		
	533.5	534.7	1.2	0.034	0.14	3.6	535.7	536.4
	535.8	536.6	0.8	0.098	0.33	3.5		
	536.6	536.8	0.2	0.022	2.19	1.2		
	531.0	531.3	0.3	0.033e	0.49	Undet	531.4	533.4
	533.2	533.7	0.5	0.032	0.16	3.1	534.8	536.0
	533.7	534.7	1.0	0.26	1.36	4.1	536.0	538.2
LP-1287 (6380)	534.7	535.0	0.3	0.23	2.96	2.0	538.2	539.0
	535.0	535.2	0.2	0.068	1.64	2.1	539.0	539.9
	535.2	535.8	0.6	0.014e	0.86	1.5	539.9	540.6
	535.8	536.9	1.1	0.072	1.25	2.5	540.6	541.1
	536.9	537.6	0.7	0.63	4.46	7.8	541.1	542.1
	537.6	538.6	1.0	0.37	3.74	6.6		
	538.6	539.0	0.4	0.74	4.62	9.0		
	539.0	539.9	0.9	0.30	0.37	13.4		
	539.9	540.5	0.6	0.41	1.09	6.5		
	540.5	540.8	0.3	0.40	5.84	2.8		
LP-1295 (6375)	540.8	541.1	0.3	0.071	1.55	5.6		
	514.0	514.7	0.7	0.24	1.85	0.9	514.1	514.8
	514.7	515.0	0.3	0.009e	0.25	Undet		
				0.40				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan District, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet	Thickness (feet)	Percent	Depth in feet	Percent U_3O_8	Thickness (feet)
	From	To	U_3O_8	From	To	
Block L--Continued						
LP-1310 (6385)	497.2	498.1	0.048	497.9	498.8	0.9
	498.1	498.3	0.025e	532.0	532.8	0.8
LP-1311 (6380)	542.3	542.9	0.054	534.2	535.0	0.8
	542.9	543.3	0.037	536.1	537.1	1.0
LP-1312 (6375)	538.9	539.6	0.032e	542.1	542.9	0.8
	539.6	540.5	0.022e	508.4	509.1	0.7
	543.0	543.3	0.060	538.3	539.4	1.1
	543.3	543.8	0.045	542.8	543.6	0.8
LP-1313 (6380)	No sample			412.6	413.3	0.7
LP-1325 (6396)	557.5	558.5	0.034	530.6	531.3	0.7
			1.08	556.9	557.7	0.8
LP-1366 (6382)	542.4	542.7	0.033e	542.2	543.1	0.9
	543.0	543.1	0.016e	543.9	544.6	0.7
	543.1	543.6	0.19			
	543.6	544.0	0.014e			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan District, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent		Percent eU_3O_8	Depth in feet		Thickness (feet)
Block M	From	To		U_3O_8	V_2O_5		From	To	
LP-28 (6349)	298.5	298.9	0.4	0.034	0.16	0.40	Not probed		
	328.0	329.5	1.5	0.058	1.45	1.03			
	329.5	330.5	1.0	0.27	3.33	0.82			
LP-351 (6342)	No sample						175.5	176.5	1.0
							176.5	179.2	2.7
							343.4	344.0	0.6
							363.5	364.4	0.9
LP-357 (6338)	No sample						361.2	362.0	0.8
Block N							Not probed		
LP-47 (6429)	141.1	141.4	0.3	0.93	3.68	0.52			
	141.4	141.7	0.3	1.49	2.84	0.58			
	141.7	143.3	1.63	0.071	0.25	4.3			
	143.3	145.7	2.37	0.013	0.25	5.4			
	145.7	146.4	0.70	0.007	1.42	0.19			
	146.7	148.3	1.6	0.010	1.03	2.11			
	149.8	150.3	0.5	0.009	0.14	8.6			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan District, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent			Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅	CaCO ₃				
Block P										
LP-243 (6336)	99.1	99.5	0.4	0.005	0.24	0.6	0.34	99.0	99.7	0.7
	99.5	99.9	0.4	0.25	2.44	0.6				
	99.9	102.5	2.6	0.037	0.22	1.0	0.046	100.8	102.4	1.6
	102.5	103.9	1.4	0.15	1.03	0.6	0.24	102.4	103.4	1.0
	103.9	108.5	4.6	0.014	0.14	0.7	0.031	103.4	104.9	1.5
LP-251 (6342)	108.7	109.4	0.7	0.012	0.27	0.9	0.031	144.2	146.1	1.9
	144.4	146.4	2.0	0.027	<0.10	0.9				
	116.7	117.0	0.3	0.061	1.93	0.1	0.028	116.1	117.8	1.7
	117.0	117.6	0.6	0.004e	0.3	0.6				
	117.6	118.0	0.4	0.023	0.93	0.2				
LP-256 (6358)	123.1	123.9	0.8	0.012	0.53	4.0				
	109.7	109.8	0.1	0.004e	0.13	Undet	0.16	121.1	121.9	0.8
	114.8	115.3	0.5	0.012	0.89	0.5				
	122.3	126.9	4.6	0.006	0.32	1.9				
LP-258 (6344)	123.0	123.4	0.4	0.001e	0.14	Undet	Barren			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan District, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Block Q	Assay data					Gamma-ray data				
		Depth in feet		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)	
		From	To		U ₃ O ₈	V ₂ O ₅		CaCO ₃	From		To
LP-21 (6373)		224.3	224.9	0.6	0.002	1.18	0.11	Not probed			
LP-213 (6381)		No sample							99.3	100.3	1.0
LP-236 (6353)		247.1	248.5	1.4	0.005	0.52	1.5	248.8	249.7	0.9	
LP-246 (6377)		220.5	221.3	0.8	0.008	0.12	2.2	231.4	232.3	0.9	
		230.5	231.7	1.2	0.007e	0.52	0.3	234.5	235.3	0.8	
		233.7	234.9	1.2	0.064	0.68	4.6				
LP-254 (6366)		208.1	208.8	0.7	0.096	0.21	5.3	209.8	210.8	1.0	
LP-259 (6362)		223.6	224.4	0.8	0.021	<0.10	1.1	195.8	197.1	1.3	
LP-747 (6369)		267.7	268.3	0.6	0.029e	<0.10	Undet	267.1	269.3	2.2	
		268.6	269.5	0.9	0.022e	<0.10	Undet				
LP-755 (6369)		Not assayed							207.1	208.1	1.0
								208.6	209.5	0.9	

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan District, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent U ₃ O ₈	Percent V ₂ O ₅	Percent CaCO ₃	Depth in feet From To	Thickness (feet)	
Block Q--Continued								
LP-757 (6365)	254.3	254.9	Q.6	0.042	<0.10	1.6	253.8	254.6
	256.1	256.4	0.3	0.040	<0.10	4.3	255.8	256.7
LP-763 (6372)	No sample					62.0	63.2	1.2
LP-764 (6363)	222.7	223.2	0.5	0.032e	<0.10	Undet	222.2	223.1
LP-765 (6366)	No sample					125.1	126.3	1.2
						287.7	288.5	0.8
						291.6	292.5	0.9
Block R								
LP-364 (6381)	368.3	369.7	1.4	0.037	0.64	1.3	325.6	326.5
							367.3	368.8
LP-365 (6375)	325.0	325.9	0.9	0.003e	0.11			
	325.9	326.3	0.4	3.07	17.46	0.4	325.4	326.2
	326.3	327.4	1.1	0.12	0.52	1.9		
	327.4	328.4	1.0	2.09	4.30	0.7	327.2	328.2
	328.4	329.1	0.7	0.32	9.21	0.2		
OFFICIAL, USE ONLY								

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan District, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
Block S	From	To				From	To	
LP-27 (6436)	447.9	448.9	1.0	0.008	0.16	10.0		
	449.7	450.2	0.5	0.005	0.19	10.7		
	503.8	504.9	1.1	0.012	0.21	5.6		
LP-806 (6535)	555.2	555.5	0.3	0.092	2.09	0.4	553.8	554.4
	555.5	555.6	0.1	0.021e	1.63	0.2		
	559.9	560.2	0.3	0.17	5.16	0.2	554.8	555.5
	560.2	560.5	0.3	0.067	7.60	0.1	558.5	559.3
	560.5	561.6	1.1	0.25	5.50	0.1	559.3	560.3
	561.6	561.9	0.3	0.074	0.32	0.3	567.0	568.0
	562.8	563.1	0.3	0.026e	0.15	Undet		
LP-807 (6526)	568.2	568.5	0.3	0.050	0.24	0.5	581.1	581.9
	568.5	569.7	1.2	0.093	1.90	<0.1		
	569.7	569.8	0.1	0.017e	0.22	Undet		
	582.3	583.0	0.7	0.28	0.88	6.3		
	597.2	597.8	0.6	0.14	0.17	0.8	593.6	594.3
							0.28	0.7

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan District, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Block S--Continued	Depth in feet		Thickness (feet)	Percent		Percent U_3O_8	Thickness (feet)
		From	To		U_3O_8	V_2O_5		
LP-809 (6537)		565.0	566.1	1.1	0.003e	0.27	0.031	358.0
		566.1	566.4	0.3	0.047	2.02		359.7
		566.4	566.6	0.2	0.019e	0.39	0.27	563.7
		566.6	566.9	0.3	0.006e	0.19	0.042	564.5
		566.9	568.3	1.4	0.013e	0.56		566.3
LP-827 (6527)		601.1	602.0	0.9	0.006e	0.72	0.18	567.6
		602.0	602.9	0.9	0.026e	0.82	0.020	586.9
								588.4
LP-828 (6533)		601.8	602.4	0.6	0.62	4.38	0.48	602.0
		602.4	602.5	0.1	0.017e	0.12		602.9
		602.5	603.5	1.0	0.005e	0.33		598.0
LP-836 (6519)		550.7	551.0	0.3	0.030e	<0.10	0.027	598.8
		575.9	576.3	0.4	0.020e	0.59	1.9	546.3
		576.3	576.9	0.6	1.02	3.95		572.6
		576.9	577.0	0.1	0.026e	3.45	0.14	573.4
		587.1	588.0	0.9	0.007e	0.68		584.6
		588.0	588.6	0.6	0.13	1.63		585.3

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan District, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Depth in feet From To	Percent eU ₂ O ₈	Thickness (feet)	
				U ₃ O ₈	V ₂ O ₅				CaCO ₃
Block S---Continued									
LP-837 (6529)	568.6	569.3	0.7	0.016e	0.24	Undet			
	569.3	569.9	0.6	0.069	0.24	2.0	567.7	568.7	1.0
	569.9	570.2	0.3	0.21	0.24	0.9	568.7	570.5	1.8
	570.2	570.3	0.1	0.086	0.21	5.9			
	570.3	571.8	1.5	0.046	0.12	10.5	573.7	574.5	0.8
	571.8	573.0	1.2	0.015e	0.12	Undet			
	573.0	573.3	0.3	0.020e	0.33	Undet			
	573.3	573.8	0.5	0.005e	0.12	Undet			
	576.0	576.3	0.3	0.19	<0.10	4.7			
	565.1	565.4	0.3	0.023e	0.25	Undet	562.8	563.8	1.0
LP-838 (6537)	565.7	566.7	1.0	0.065	0.15	0.8	563.8	564.7	0.9
	566.7	567.3	0.6	0.59	3.00	0.5	564.7	565.7	1.0
	567.3	567.7	0.4	0.061	5.91	0.2	579.6	580.7	1.1
	567.7	568.4	0.7	0.009e	0.43	Undet			
	568.4	569.5	1.1	0.28	7.58	0.3	584.9	586.2	1.3
	569.5	569.9	0.4	0.012e	0.40	Undet			
	580.2	581.4	1.2	0.009e	0.65	1.1			
	581.4	582.4	1.0	0.015e	1.24	5.1			
	582.4	582.7	0.3	0.027e	1.61	3.6			
	582.7	583.3	0.6	0.17	7.92	1.4			
583.3	584.0	0.7	1.85	6.28	0.9				
584.0	584.6	0.6	0.78	0.73	2.8				
584.6	584.9	0.3	0.027	0.22	2.2				
588.5	588.8	0.3	0.27	<0.10	Undet				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent eU308	Thickness (feet)
	From	To		U308 V205 CaCO3	From	To		
Block S--Continued								
LP 839 (6538)	559.5	559.8	0.3	0.024e	<0.10	Undet	0.047	554.4 555.5 1.1
	563.2	563.5	0.3	0.023e	<0.10	Undet	3.7	558.7 559.6 0.9
	563.5	563.6	0.1	0.008e	0.28	Undet	0.030	559.6 561.9 2.3
	563.6	563.9	0.3	0.89	13.39	1.5	0.24	561.9 562.7 0.8
	563.9	564.5	0.6	1.78	9.62	0.6		
	564.5	565.1	0.6	0.79	5.86	1.2	0.34	564.9 565.9 1.0
	565.1	565.2	0.1	0.13	4.52	0.2		
	565.2	566.9	1.7	0.013e	0.28	Undet	0.13	567.9 568.7 0.8
	566.9	567.2	0.3	0.13	3.06	0.2		
	567.2	567.4	0.2	0.058	2.32	0.2	0.12	571.6 572.7 0.11
	567.4	568.7	1.3	0.006e	0.22	Undet		
	568.7	569.2	0.5	0.051	4.11	0.6	0.036	572.7 574.0 1.3
	569.2	569.8	0.6	0.010e	0.31	Undet		
	569.8	570.7	0.9	0.14	4.02	0.2		
	570.7	571.1	0.4	0.073	1.67	0.1		
	571.1	572.8	1.7	0.008e	0.15	Undet		
	572.8	573.3	0.5	1.26	11.60	0.3		
	573.3	573.7	0.4	0.74	10.52	0.2		
	573.7	574.0	0.3	0.013e	0.34	Undet		
LP-840 (6526)	576.1	577.0	0.9	0.028e	1.05	3.3		
	569.5	570.1	0.6	0.041	<0.10	2.7	0.032	571.9 573.1 1.2
	574.4	574.7	0.3	0.026e	0.42	Undet		

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data					
	Depth in feet		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)	
	From	To		U ₃ O ₈	V ₂ O ₅		CaCO ₃	From		To
Block S--Continued										
LP-841 (6151)	No sample						0.021	572.3	573.3	1.0
LP-856 (6518)	579.4	579.7	0.3	0.032e	0.15	Undet	0.029	551.5	552.3	0.8
	579.7	580.0	0.3	0.17	0.12	5.7	0.030	565.5	566.7	1.2
LP-1206 (6516)	586.9	587.2	0.3	0.14	<0.10	8.67	0.15	576.3	577.0	0.7
							0.022	601.7	602.6	0.9
Block T							0.11	586.2	586.8	0.6
LP-502 (6160)	421.8	422.1	0.3	0.028	<0.10	0.5	0.026	421.2	422.1	0.9
	435.2	435.9	0.7	0.22	0.36	11.9	0.30	434.9	435.7	0.8
LP-1037 (6172)	No sample						0.029	330.8	332.0	1.2
LP-1039 (6147)	403.5	403.8	0.3	0.036	0.15	1.3	0.020	403.2	404.3	1.1
	414.7	415.0	0.3	0.10	0.27	0.5	0.029	410.7	411.8	1.1
	415.0	415.2	0.2	0.031e	0.30	--	0.32	415.7	416.7	1.0
	415.2	415.8	0.6	0.22	2.27	3.4				
	415.8	416.3	0.5	0.074	2.92	4.0				
OFFICIAL USE ONLY										

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent		Percent eU308	Depth in feet		Thickness (feet)	
	From	To		U308	V2O5		CaCO3	From		To
Block T--Continued										
LP-1075 (6133)	No sample									
Block U	LP-414 (6166)	529.3	529.5	0.2	0.071	0.58	2.8	528.8	529.9	1.1
		529.5	529.8	0.3	0.45	11.56	0.6			
		529.8	530.3	0.5	0.031e	0.16	Undet			
		530.3	530.8	0.5	0.067	2.39	0.8			
		530.8	531.1	0.2	0.006e	0.76	1.9			
LP-453 (6228)	661.0	661.6	0.6	0.10	0.26	0.5				
LP-464 (6206)	No sample									
LP-631 (6178)	Barren									
LP-632 (6167)	542.3	542.6	0.3	0.041	7.63	0.2		540.2	541.0	---
	542.6	542.9	0.3	0.16	1.97	0.6				
	542.9	543.2	0.3	0.037	1.05	0.6				
LP-643-A (6151)	Below grade							493.1	494.0	0.9
LP-644 (6242)	665.3	665.6	0.3	0.029e	0.27	Undet		665.7	667.4	1.7
	665.6	665.9	0.3	0.013e	0.21	Undet				
	672.3	673.5	1.2	0.016e	0.35	Undet				
	678.2	678.7	0.5	0.003e	0.15	Undet				
OFFICIAL USE ONLY										

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent	Thickness (feet)
	From	To		U3O8 V2O5 CaCO3	From	To	eU3O8	
Block U.--Continued								
LP-1135 (6236)	671.2	671.5	0.4	0.050	<0.10	0.6	0.047	0.9
LP-1136 (6207)	644.2	644.5	0.3	0.069	<0.10	1.7	0.052	0.7
	645.5	646.3	0.8	0.029e	<0.10	Undet	0.033	3.1
	646.9	647.3	0.4	0.041	<0.10	9.3	0.49	0.8
	647.3	648.2	0.9	0.43	7.55	3.5	2.9	0.8
	648.2	649.0	0.8	1.42	6.15	6.8	0.049	1.9
	649.0	649.7	0.7	0.058	0.52	4.7	0.023	1.2
	649.7	650.3	0.3	0.019e	0.20	Undet		
Block V	650.0	650.3	0.3	0.051	0.11	10.0		
	650.6	651.2	0.6	0.074	0.11	13.0		
Block V								
LP-1050 (6536)	446.9	447.8	0.9	0.028e	<0.10	--	0.032	2.1
	447.8	449.0	1.2	0.034e	<0.10	--	0.64	1.0
	449.0	449.6	0.6	0.31	<0.10	11.1		
	449.6	450.3	0.7	0.48	<0.10	6.2	445.1	447.2
	450.3	450.6	0.3	0.15	<0.10	8.8	447.2	448.2
	450.6	451.2	0.6	0.017e	1.02	3.8		

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅				
Block V.--Continued									
IP-1190 (6570)	469.2	470.8	1.6	0.023e	<0.10	--	472.2	473.1	0.9
	470.8	471.9	1.1	0.026	<0.10	--	473.1	474.0	0.9
	475.0	475.6	0.6	0.084	0.14	3.5	475.5	476.8	1.3
	475.6	475.9	0.3	0.12	0.12	3.8			
	475.9	476.3	0.4	0.060	0.24	1.4	481.1	482.0	0.9
IP-1211 (6545)	463.6	464.4	0.8	0.002e	0.17	--			
	464.4	464.7	0.3	0.002e	0.17	--			
IP-1213 (6465)	No Assay						289.2	289.9	0.7
IP-1266 (6566)	429.3	429.6	0.3	0.056	<0.10	5.1	425.2	426.0	0.8
	451.9	452.7	0.8	0.11	0.19	2.6	440.9	441.5	0.6
IP-1281 (6553)							449.9	450.9	1.0
							452.8	453.5	0.7
	No sample						345.7	346.7	1.0

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Indian district, Montrose County, Colorado--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet from	Thickness (feet)	Percent P ₂ O ₅	Percent CaCO ₃	Percent eU ₂ O ₈	Depth in feet from	Thickness (feet)	
Block LP-549 (6467)								
	104.9	105.2	0.11	1.69	0.025	82.8	84.5	
	105.2	106.0	0.26	1.57	0.022	86.1	87.6	
	106.0	107.0	0.33	2.24	0.035	48.3	49.0	
LP-1233 (6445)	107.0	107.7	0.32	1.50	0.50	106.7	108.1	
							1.4	
Block X LP-1046 (6572)								
	346.0	346.9	0.031e	<0.10	0.050	340.9	341.9	
							1.0	
	393.4	393.7	0.020e	<0.10	0.030	347.6	348.6	
							1.0	
					0.027	387.5	388.2	
					0.025	391.0	392.1	
							1.0	

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uruan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet.)	Assay data				Gamma-ray data			
	Depth in feet From	Depth in feet To	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	Percent $\frac{CaCO_3}{V_2O_5}$	Depth in feet From	Depth in feet To	Thickness (feet)
Block X.--Continued								
LP-1243 (6506)	391.9	392.5	0.6	0.023e	<0.10	Undet		
	392.8	393.1	0.3	0.057	<0.10	33.3		
	393.1	393.7	0.6	0.35	<0.10	27.6		
	395.0	396.0	1.0	0.027e	<0.10	Undet		
	396.0	396.6	0.6	0.026e	<0.10	Undet		
	396.6	396.9	0.3	0.18	<0.10	14.3		
	396.9	397.5	0.6	0.032	<0.10	13.8		
	399.0	399.6	0.6	0.044	0.16	3.5		
	399.6	401.4	1.8	0.006e	0.16	Undet		
	425.6	426.1	0.5	0.044	<0.10	0.7		
LP-1258 (6588)	363.7	364.0	0.3	0.084	<0.10	1.5		
							363.5	364.2
								0.7
LP-1260 (6610)	438.0	438.3	0.3	0.037	<0.10	1.1		
							391.0	391.7
								0.7
							441.4	442.1
								0.7

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

139

Hole No. and collar elev. (feet)		Assay data				Gamma-ray data			
		Depth in feet		Thickness (feet)	Percent		Depth in feet		Thickness (feet)
		From	To		U308	V2O5	CaCO3	From	To
Block X.--Continued									
LP-1267 (6589)		359.3	359.6	0.3	0.078	<0.10	2.2	360.9	361.8
		377.2	377.7	0.5	0.30	1.34	2.0	379.1	379.7
		380.1	380.4	0.3	0.048	<0.10	2.7	381.7	382.4
		384.9	385.2	0.3	0.013	0.24	0.7	386.6	387.3
		385.6	385.8	0.2	0.10	0.31	1.1	393.3	394.2
LP-1268 (6598)		396.8	397.7	0.9	0.034e	0.12	Undet		
		399.1	399.7	0.6	0.093	<0.10	2.4	399.1	399.7
		401.1	401.7	0.6	0.033e	0.12	Undet	401.0	401.8
		402.0	402.6	0.6	0.069	<0.10	4.6	401.8	402.6
								417.5	418.1
LP-1269 (6596)		423.7	424.0	0.3	0.053	<0.10	1.1	399.5	400.1
								424.6	425.2
								427.3	428.2
Block Y LP-1256 (6746)		538.8	539.1	0.3	0.055	0.12	0.5	539.0	540.4
		539.7	540.2	0.5	0.11	0.12	2.2	540.4	541.1
		540.2	540.4	0.2	0.26	0.57	0.8		
		540.4	540.8	0.4	0.45	0.26	0.2		
OFFICIAL USE ONLY									

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent U_3O_8 V_2O_5 $CaCO_3$		Percent U_3O_8	Depth in feet From To		Thickness (feet)
Block Z									
(LP-1333 (5876)	No sample								
						0.025	117.4	118.2	0.8
						0.42	123.8	124.8	1.0
						0.07	126.3	127.5	1.2
						0.054	127.5	127.9	0.4
						0.049	127.9	128.9	1.0
						0.023	129.4	129.9	0.5
Block AA									
(LP-316 (6503)	147.2	148.3	1.1	0.011	0.16	1.3	156.2	157.4	1.2
	155.2	156.7	1.5	0.093	0.42	0.1	158.1	158.9	0.8
	156.7	157.0	0.3	0.094	0.24	<0.1			
	157.6	158.3	0.7	0.059	0.26	1.9			

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data			
	Depth in feet From To		Thickness (feet)	Percent			Percent eU_3O_8	Depth in feet From To		Thickness (feet)
				U_3O_8	V_2O_5	CaCO ₃				
Block BB										
LP-729 (6282)	223.1	223.4	0.3	0.077	9.70	2.5	0.041	83.5	85.0	1.5
	231.6	232.0	0.4	0.002e	0.57	0.3	0.69	222.0	222.7	0.7
	233.0	234.0	1.0	0.002e	0.56	2.0	0.030	238.0	239.2	1.2
	234.3	235.0	0.7	0.002e	0.37	Undet	0.10	240.8	241.7	0.9
	237.8	239.3	0.5	0.006e	0.41	Undet				
	239.3	240.5	0.8	0.016e	0.52	3.6				
	240.5	240.8	0.3	0.023e	0.58	0.6				
	240.8	241.0	0.2	0.017e	0.14	Undet				
	242.2	242.5	0.3	0.031e	<0.10	Undet				
	242.8	243.4	0.6	0.095	0.10	2.3				
Block CC										
LP-818 (6334)	362.2	363.2	1.0	0.016e	0.80	0.4	0.027	365.7	367.5	1.8
Block DD							0.035	378.4	379.3	0.9
LP-1253 (6513)	539.9	540.1	0.2	0.002e	0.45	Undet	0.48	539.9	540.8	0.9
	540.1	540.5	0.4	0.039	0.54	0.2				
	540.5	541.2	0.7	0.043	0.35	3.0				
	541.2	541.5	0.3	0.23	0.35	5.7				
	541.5	541.9	0.4	0.13	0.21	8.0				
	541.9	542.3	0.4	0.056	<0.10	2.8				

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$ $\frac{CaCO_3}{V_2O_5}$	Percent U_3O_8	Depth in feet From To	Thickness (feet)
Other holes						
LP-18 (6419)	194.8	195.1	0.3	0.011	0.16	13.1
					Not probed	
LP-33 (6186)	214.9	215.7	0.8	0.017	0.16	1.07
					Not probed	
LP-37 (6374)	283.4	285.4	2.0	0.018	0.17	1.48
					Not probed	
LP-50 (6261)	215.1	215.4	0.3	0.010e	0.17	8.9
					Not probed	
LP-59 (6389)	40.3 40.8	40.8 43.0	0.5 2.2	0.17 0.040	1.70 0.40	0.56 0.55
					Not probed	
LP-60 (6424)	40.5	41.2	0.7	0.018	1.36	0.56
					Not probed	
LP-62 (6439)	249.7	252.2	2.5	0.030	0.19	10.8
					Not probed	
LP-63C (6427)	260.5	261.7	1.2	0.010	0.16	2.14
					Not probed	
	269.1	270.9	1.8	0.026	0.22	1.76
					Not probed	
LP-69 (6380)	273.1	273.6	0.5	0.018	0.13	2.8
					Not probed	
	283.3	284.1	0.8	0.015	0.14	1.03

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data					
	Depth in feet From	Depth in feet To	Thickness (feet)	Percent U3O8	Percent V2O5	Percent CaCO3	Percent eU3O8	Depth in feet From	Depth in feet To	Thickness (feet)
Other holes.--Continued										
LP-81 (6172)	191.9	193.0	1.1	0.018	0.11	1.99	Not probed			
LP-82 (6368)	274.0	275.2	1.2	0.022	0.16	0.54	Not probed			
	275.2	275.7	0.5	0.13	0.55	1.95				
	275.7	276.2	0.5	0.031	0.30	2.03				
	284.0	285.3	1.3	0.019	0.08	0.82				
LP-86 (6347)	No sample									
LP-87 (6395)	259.2	259.5	0.3	0.018	0.15	12.8	Not probed			
	292.2	293.0	0.8	0.019	0.16	0.92				
	293.2	294.5	1.3	0.023	0.08	0.09				
	299.0	299.5	0.5	0.006e	0.11	Undet				
	299.5	299.8	0.3	0.30	6.00	0.19				
LP-182 (6457)	337.9	338.2	0.3	0.018	2.00	1.9	0.031	339.1	339.8	0.7
LP-189 (6404)	254.0	254.8	0.8	0.021	<0.10	0.4	0.022	287.8	288.6	0.8
	287.7	288.1	0.4	0.022e	<0.10	0.5	0.028	312.0	313.0	1.0

143

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet From	To	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$ $\frac{CaCO_3}{CaCO_3}$	Percent U_3O_8	Depth in feet From	To	Thickness (feet)
Other holes.--Continued								
LP-192 (6416)	224.3	225.2	0.9	0.036 0.63 3.3	0.073	225.0	225.9	0.9
	240.5	241.3	0.8	0.025 <0.10 2.1	0.042	241.8	242.6	0.8
	256.8	257.1	0.3	0.027e <0.10 1.0	0.022	257.8	258.6	0.8
LP-193 (6393)	Barren							
LP-197 (6363)	327.0	328.0	1.0	0.028e <0.10 2.4	0.025	141.0	142.4	1.4
					0.025	300.4	301.3	0.9
					0.025	327.6	328.7	1.1
LP-200 (6396)	218.7	219.2	0.5	0.004 0.24 1.7	Barren			
LP-203 (6429)	261.6	263.1	1.5	0.021e <0.10 1.8	0.037	262.4	263.8	0.4
LP-206 (6386)	209.7	210.0	0.3	0.007 0.17 2.3	Barren			
	210.0	211.0	1.0	0.033 0.37 0.6				
	211.0	211.5	0.5	0.010 0.10 0.3				
LP-207 (6423)	Barren							
					0.037	208.9	209.7	0.8

OFFICIAL USE ONLY

Table 5-- Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent		Percent eU ₃ O ₈	Depth in feet		Thickness (feet)
	From	To		U ₃ O ₈	V ₂ O ₅		From	To	
Other holes.---Continued									
LP-215 (6368)	245.3	245.8	0.5	0.047	<0.10	1.2	245.8	246.8	1.0
	305.6	306.4	0.8	0.037	<0.10	6.4	306.2	307.1	0.9
LP-216 (6475)	Barren						351.8	353.0	1.2
LP-218 (6407)	207.6	208.0	0.4	0.027	0.25	0.5	185.1	186.4	1.3
	250.3	251.1	0.8	0.021e	<0.10	1.2	251.3	252.7	1.4
							254.7	255.8	1.1
LP-219 (6453)	Barren						341.1	342.1	1.0
							358.6	359.4	0.8
LP-220 (6420)	No sample						83.4	84.3	0.9
LP-227 (6390)	190.0	190.8	0.8	0.023	0.19	1.3	Barren		
LP-229 (6392)	173.7	174.5	0.8	0.009	0.12	3.7	75.3	77.3	2.0

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5-- Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Ureavan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)		Percent		Depth in feet	
	From	To			U_3O_8	V_2O_5	From	To
Other holes.--Continued								
LP-230 (6385)	156.9	157.6	0.7		0.044	0.30	159.5	160.6
	157.6	158.2	0.6		0.015	0.81		
	158.7	158.9	0.2		0.25	2.00	0.035	1.1
	158.9	161.4	2.5		0.035	0.43	0.022	1.2
	161.8	163.3	1.5		0.015	0.16	163.2	164.4
LP-233 (6393)	211.0	213.0	2.0		0.007	0.17	210.8	211.9
	218.6	219.4	0.8		0.027	<0.10	224.8	226.1
	221.6	222.4	0.8		0.003	0.14	228.1	229.1
	230.5	231.0	0.5		0.016	0.46	241.3	242.1
	232.7	233.2	0.5		0.051	2.19		
LP-234 (6390)	No sample						181.5	182.8
LP-235 (6376)	Barren						203.2	204.2
							205.1	206.1
LP-237 (6451)	313.9	315.3	1.4		0.020	<0.10	313.1	314.0

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From	To	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	$\frac{CaCO_3}{V_2O_5}$	Depth in feet From	To	Thickness (feet)	
Other holes.--Continued									
LP-238 (6383)	261.3	261.8	0.5	0.020	<0.10	0.9	73.9	75.3	1.4
	268.4	268.9	0.5	0.040	<0.10	10.6			
LP-241 (6381)	213.7	214.2	0.5	0.09e	<0.10	0.9	229.6	230.3	0.7
	228.7	229.4	0.7	0.078	0.62	2.5			
LP-245 (6417)	255.2	255.5	0.3	0.020	<0.10	0.8	Barren		
LP-248 (6388)	217.5	220.0	2.5	0.002e	0.14	Undet	58.6	59.9	1.3
LP-249 (6367)	No sample						76.5	77.7	1.2
LP-252 (6392)	Barren						228.3	229.3	1.0
							247.3	248.1	0.8
LP-255 (6400)	No sample						307.6	309.0	1.4
LP-257 (6361)	236.6	236.8	0.2	0.044	2.75	0.2	237.2	238.0	0.8
	239.0	239.3	0.3	0.007	0.52	2.4	239.9	241.1	0.2
	239.5	240.1	0.6	0.019	0.50	1.8			

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table. p. --Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data					
	Depth in feet From	To	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	Percent $\frac{CaCO_3}{V_2O_5}$	Percent eU_3O_8	Depth in feet From	To	Thickness (feet)	
Other holes.---Continued										
LP-270 (6312)	156.7	159.1	2.4	0.022	<0.10	13.2	0.027	140.9	141.8	0.9
LP-273 (6392)	Barren									
LP-274 (6328)	505.5	506.1	0.6	0.008	0.20	1.2	0.050	367.7	368.6	0.9
LP-279 (6342)	154.6	158.4	3.8	0.025e	<0.10	5.1	0.022 0.037	154.5 155.9	155.9 157.6	1.4 1.7
LP-286 (6541)	No sample									
LP-287 (6376)	74.2	75.6	1.4	0.021e	<0.10	7.6	0.038	264.2	265.7	1.5
LP-289 (6476)	111.8	112.6	0.8	0.009	0.34	0.20	0.021	73.5	74.5	1.0
LP-295 (6305)	112.8	113.3	0.5	0.006	1.06	1.0	0.022	110.4	111.5	1.1
	218.4	218.9	0.5	0.008	0.20	0.8	0.038	127.3	128.7	1.4
	Barren									

OFFICIAL USE ONLY

Table 5-- Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet		Thickness (feet)	Percent	Depth in feet		Percent ^{238}U	Thickness (feet)
	From	To		U_3O_8	V_2O_5	CaCO_3	From	To
Other holes.--Continued								
LP-298 (6486)	73.1	73.8	0.7	0.052	<0.10	5.5	73.3	74.3
	73.8	75.4	1.6	0.029e	<0.10	11.5		
	75.4	75.9	0.5	0.12	<0.10	11.2	75.2	75.8
LP-303 (6514)	No sample						289.1	290.0
LP-310 (6498)	229.3	230.2	0.9	0.003e	0.40	1.5		
	230.2	230.5	0.3	0.002e	0.76	2.2		
	230.5	230.7	0.2	0.001e	0.16	3.2		
LP-314 (6322)	368.1	368.5	0.4	0.095	<0.10	6.5	368.2	369.3
LP-315 (6380)	Barren						126.4	127.2
LP-318 (6393)	395.1	398.9	3.8	0.041e	<0.10	7.2	395.9	397.1
LP-323 (6324)	139.0	142.3	3.3	0.004e	0.20	1.0		
LP-342 (6324)	367.6	368.4	0.8	0.034e	<0.10	Undet	367.5	368.9
LP-384 (5906)	No sample						82.7	83.5

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From	To	Thickness (feet)	Percent U ₃ O ₈	Percent V ₂ O ₅	Percent CaCO ₃
Other holes.--Continued						
LP-388 (6387)	No sample					
LP-394 (6382)	232.4	232.7	0.3	0.064	<0.10	1.4
LP-395 (5729)	No sample					
LP-404 (5863)	No sample					
LP-406 (6373)	228.4	228.8	0.4	0.35	3.19	0.2
	228.8	229.4	0.6	0.012e	0.28	Undet
LP-422 (6223)	No sample					
LP-426 (6529)	260.1	260.6	0.5	0.023e	<0.10	Undet
LP-448 (6474)	No sample					
LP-463 (5951)	188.2	188.8	0.6	0.077	0.25	1.4
LP-471 (6310)	No sample					

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent U308	Percent V2O5	Percent eU308	Depth in feet From To	Thickness (feet)
Other holes.--Continued							
LP-472 (6046)	No sample						
LP-473 (6071)	274.8 274.9	0.1	0.81	<0.10	0.051	273.6 274.2	0.6
LP-474 (6111)	263.9 264.7	0.8	0.027e	0.18	0.15	265.3 266.1	0.8
	264.8 265.1	0.3	0.48	0.45	0.038	267.1 268.5	1.4
	266.6 267.1	0.5	0.034	0.12			
LP-475 (6382)	No sample				0.039	358.6 359.5	0.8
LP-476 (6349)	280.8 281.0	0.2	0.027	0.09	0.040	279.2 280.3	1.1
	284.4 284.6	0.2	0.018e	0.29			
LP-480 (6339)	307.6 307.9	0.3	0.074	<0.10	0.047	306.3 307.4	1.1
	308.1 308.4	0.3	0.029e	<0.10	0.020	308.8 309.7	0.9
LP-485 (6342)	280.7 280.9	0.2	0.076	<0.10	0.046	281.0 281.6	0.6
	293.0 293.3	0.3	0.064	<0.10	0.030	294.0 294.9	0.9
LP-486 (5953)	367.7 368.2	0.5	0.045	<0.10	0.022	367.7 368.9	1.2
LP-488 (5885)	304.0 304.3	0.3	0.081	<0.10	Barren		

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	Percent $\frac{CaCO_3}{V_2O_5}$	Depth in feet From To	Thickness (feet)
Other holes--Continued						
LP-506 (5997)	235.4 235.7	235.7 236.4	0.3 0.7	0.039 0.13	<0.10 0.14	18.5 15.7
LP-507 (5939)	187.4 187.7 188.2	187.7 188.2 188.6	0.3 0.5 0.4	0.032e 0.10 0.031	0.43 0.78 0.36	Undet 8.8 1.0
LP-513 (5795)	No sample					
LP-533 (5880)	164.2	164.5	0.3	0.15	0.16	0.6
LP-540 (6508)	No sample					
LP-543 (6451)	102.6	103.6	1.0	0.024e	<0.10	Undet
LP-547 (6526)	No sample					
LP-550 (6182)	No sample					
LP-554 (6514)	362.9	363.2	0.3	0.027e	0.25	Undet

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent U ₃ O ₈ V ₂ O ₅ CaCO ₃	Percent eU ₃ O ₈	Depth in feet From To	Thickness (feet)
Other holes.--Continued						
LP-556 (6401)	No sample			0.026	403.6 404.6	1.0
LP-560 (6272)	No sample			0.026	164.2 165.9	1.7 ¹⁵³
				0.047	240.6 241.7	1.1 ¹⁵³
LP-563 (6124)	399.1 399.4	0.3	0.032 <0.10 1.4	0.031	399.3 400.5	1.2
				0.023	411.5 412.9	1.4
LP-594 (6349)	66.9 67.5	0.6	0.022e <0.10 Undet	Barren		
LP-597 (6295)	No sample			0.027	113.2 114.3	1.1
LP-598 (6307)	No sample			0.034	60.3 61.6	1.3
LP-600 (6358)	No sample			0.029	154.3 155.6	1.3
LP-602 (6260)	No sample			0.054	409.3 410.2	0.9
LP-604 (6147)	No sample			0.047	319.3 320.4	1.1

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$ $\frac{CaCO_3}{CaCO_3}$	Depth in feet From	To	Thickness (feet)
Other holes.--Continued						
LP-609 (6285)	No sample			119.2	120.8	1.6
LP-610 (6324)	118.2	118.5	0.3 0.044 0.8	114.1	115.2	1.1
LP-612 (6478)	No sample			118.3	119.0	0.7
LP-613 (6446)	191.9	192.2	0.3 0.009e 0.20 Undet	183.3	185.2	1.9
	192.2	192.8	0.6 0.022e 0.30 Undet	191.9	192.7	0.8
	192.8	192.9	0.1 0.022e 0.20 Undet	210.0	210.8	0.8
	198.6	199.6	1.0 0.012e 0.17 Undet			
	199.6	200.2	0.6 0.044 0.45 0.2			
	200.2	200.6	0.4 0.012e 0.27 Undet			
LP-619 (6432)	162.5	163.1	0.6 0.032 0.38 0.2	162.9	163.7	0.8
	163.1	163.3	0.2 0.033 0.24 0.2	163.7	164.9	1.2
	163.3	165.9	2.6 0.033e 0.21 Undet	164.9	165.6	0.7
	167.9	168.5	0.6 0.025e <0.10 Undet	167.9	169.9	2.0
LP-621 (6275)	No sample			175.4	176.3	0.9
				297.4	298.1	0.7

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data		
	Depth in feet From	Thickness (feet)	U ₃₀₈	Percent V ₂₀₅	Percent eU ₃₀₈	Depth in feet From To	Thickness (feet)
Other holes.--Continued							
LP-624 (6265)	No sample				0.040	143.7 144.5	0.8
LP-626 (6303)	No sample				0.020	232.1 233.1	1.0
LP-627 (6427)	136.6 136.9	0.3	0.032	0.15	0.027	135.6 136.9	1.3
LP-628 (6357)	No sample				0.026	69.2 69.9	0.7
LP-629 (6337)	No sample				0.025	250.3 251.2	0.9
LP-634 (6335)	No sample				0.022	146.2 147.2	1.0
LP-637 (6282)	No sample				<0.10	45.5 46.6	1.1
					0.089	48.5 50.4	1.9
LP-639 (6293)	130.6 131.2 131.2 131.4	0.6 0.2	0.036 0.030e	<0.10 <0.10	0.023	126.9 128.2	1.3
					0.22	130.2 130.8	0.6
LP-642 (6253)	No sample				0.025	197.0 197.9	0.9

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent U ₃ O ₈ V ₂ O ₅ CaCO ₃	Depth in feet From To	Percent eU ₃ O ₈	Thickness (feet)
Other holes.--Continued						
LP-647 (6204)	No sample				0.023	171.1 171.9 0.8
LP-653 (6227)	218.4 219.6	1.2	0.034 <0.10 4.1	218.9 219.9	0.096	1.0
	220.5 221.4	0.9	0.32e <0.10 Undet	219.9 221.0	0.025	1.1
LP-654 (6366)	293.5 293.8	0.3	0.029e <0.10 Undet	221.4 222.5	0.025	1.1
				97.0 98.9	0.11	1.9
LP-657 (6295)	No sample			278.4 279.3	0.025	0.9
				290.0 291.3	0.029	1.3
LP-694 (6273)	No sample			73.0 73.9	0.040	0.9
LP-709 (6475)	No sample			213.3 214.2	0.020	0.9
LP-713 (6281)	No sample			278.9 280.3	0.035	1.4
LP-714 (6312)	No sample			231.4 232.2	0.023	0.8
LP-720 (6326)	No sample			175.2 175.9	0.027	0.5
				436.8 437.7	0.020	0.9

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.---Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data					
	Depth in feet From To	Thickness (feet)	Percent U_3O_8	Percent V_2O_5	Percent CaCO_3	Percent eU_3O_8	Depth in feet From To	Thickness (feet)		
Other holes.---Continued										
LP-721 (6386)	274.1	274.6	0.5	0.014e	0.79	0.4	0.024	272.7 273.5	0.8	
	287.5	287.7	0.2	0.021e	0.86	1.4	0.037	286.0	286.8	0.8
	289.3	289.4	0.1	0.74	<0.10	28.8	0.27	287.4	288.1	0.7
	290.6	290.9	0.3	0.037	4.76	0.3	0.085	288.7	289.4	0.7
LP-749 (6384)	223.4	224.0	0.6	0.028e	0.15	Undet	0.028	222.6	225.0	2.4
	224.3	225.0	0.7	0.039	0.12	<0.10	0.044	229.3	229.9	0.6
	225.0	226.8	1.8	0.017e	0.27	Undet	0.029	249.7	250.6	0.9
	226.8	228.3	1.5	0.010e	0.24	Undet	0.022	251.9	252.8	0.9
LP-756 (6383)	No sample						0.025	200.1	200.8	0.7
LP-761 (6386)	213.7	214.0	0.3	0.14	0.34	5.7	0.22	212.0	212.9	0.9
	214.0	214.6	0.6	0.032	<0.10	0.3	0.020	214.3	215.3	1.0
LP-767 (6666)	No sample						0.024	507.7	508.4	0.7

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data					
	Depth in feet From	To	Thickness (feet)	Percent U_3O_8	Percent V_2O_5	Percent $CaCO_3$	Depth in feet From	To	Thickness (feet)
Other holes.--Continued									
LP-772 (6392)	No sample			0.044			225.4	226.6	1.2
				0.020			252.3	253.0	0.7
				0.028			259.2	260.1	0.9
LP-773 (6398)	No sample			0.076			209.5	210.7	1.2
LP-774 (6390)	195.7	196.0	0.3	0.028e	0.42	Undet	194.8	195.8	1.0
				0.022			204.7	205.7	1.0
				0.025			207.8	209.4	1.6
LP-776 (6402)	No sample			0.024			59.1	60.2	1.1
				0.022			194.1	195.0	0.9
				0.033			198.0	199.6	1.6
				0.029			200.7	201.6	0.9
LP-778 (6653)	No sample			0.024			518.4	519.4	1.0

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent U ₃ O ₈ V ₂ O ₅ CaCO ₃	Percent eU ₃ O ₈	Depth in feet From To	Thickness (feet)
Other holes--Continued						
LP-785 (6607)	No sample			0.036	420.0 421.3	1.3
				0.020	561.8 562.5	0.7
				0.020	563.4 564.2	0.8
LP-787 (6597)	Barren			0.031	399.0 400.1	1.1
				0.033	536.6 537.5	0.9
				0.058	411.5 412.5	1.0
LP-789 (6547)	No sample			0.038	549.3 550.1	0.8
				0.020	54.1 55.0	0.9
				0.087	60.0 60.9	0.9
LP-790 (6409)	No sample			0.024	245.5 246.3	0.8
				0.021	258.2 259.1	0.9
				0.036	270.8 271.5	0.7
LP-792 (6425)	No Sample			0.020	276.8 277.7	0.9
				0.021	279.4 280.6	1.2

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$ $\frac{CaCO_3}{CaCO_3}$	Percent ^{238}U	Depth in feet From To	Thickness (feet)
Other holes.--Continued						
IP-794 (6444)	242.4	242.6	0.2 0.052 6.26 0.4	0.054	73.6 74.8	1.2
IP-825 (6480)	Barren			0.11	240.9 241.6	0.7
IP-829 (6339)	No sample			0.024	571.8 572.5	0.7
IP-847 (6511)	No sample			0.049	383.0 384.0	1.0
IP-849 (6582)	No sample			0.060	424.7 425.5	0.8
IP-857 (6523)	Barren			0.025	434.7 435.8	1.1
IP-858 (6526)	No sample			0.032	342.2 343.9	1.7
IP-863 (6336)	354.9 355.2	0.3	0.027e <0.10 Undet	0.19	345.6 346.5	0.9
IP-871 (6272)	No sample			0.034	345.5 346.3	0.8
				0.025	565.7 566.6	0.9
				0.022	589.7 590.5	0.8
				0.021	354.3 355.4	1.1
				0.021	418.9 420.7	1.8

OFFICIAL USE ONLY.

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uruan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From To		Thickness (feet)	Percent		Percent eu ₂ O ₃	Depth in feet From To		Thickness (feet)
				U ₃ O ₈	V ₂ O ₅				
Other holes.--Continued									
LP-879 (6433)	No sample					0.022	446.2	447.0	0.8
LP-891 (6515)	No sample					0.027	537.5	538.2	0.7
LP-893 (6445)	489.7	490.3	0.6	0.032e	<0.10	0.031	485.2	486.3	1.1
LP-895 (6542)	No sample					0.025	527.7	528.6	0.9
LP-898 (6500)	502.5	502.8	0.3	0.031e	0.15	0.032	500.4	501.7	1.3
LP-900 (6428)	No sample					0.030	431.2	431.9	0.7
LP-901 (6451)	427.4	427.7	0.3	0.029e	<0.10	0.036	425.8	426.7	0.9
	440.6	441.1	0.5	0.037	0.20	0.18	439.2	439.8	0.6
LP-916 (6411)	Barren					0.048	390.3	391.2	0.9
LP-917 (6605)	Barren					0.034	445.2	446.1	0.9
						0.028	531.4	532.3	0.9
						0.030	570.2	571.0	0.8

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	Percent $\frac{U_3O_8}{CaCO_3}$	Depth in feet		Thickness (feet)	
	From	To				From	To		
Other holes.--Continued									
LP-925 (6414)	No sample					325.0	325.8	0.8	
						336.7	337.9	1.2	
						370.7	371.9	1.2	
LP-926 (6466)	No sample					448.8	450.0	1.2	
LP-927 (6479)	424.1	424.7	0.6	0.024e	<0.10	Undet	417.7	418.6	0.9
							423.3	424.2	0.9
LP-928 (6500)	422.8	423.2	0.4	0.042	<0.10	0.4	420.7	421.7	1.0
	No sample					450.1	451.0	0.9	
LP-929 (6484)									
	368.3	368.6	0.3	0.22	<0.10	0.5	368.8	369.4	0.6
LP-930 (6403)	368.6	368.7	0.1	0.25	<0.10	0.5			
	349.0	349.2	0.2	0.066	0.41	0.2			
LP-941 (6332)	363.9	364.2	0.3	0.075	<0.10	0.3			
	362.0	362.2	0.2	1.31	<0.1	23.7	360.5	361.2	0.7
LP-943 (6366)									

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U.S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From	To	Thickness (feet)	Percent U ₃ O ₈	Percent V ₂ O ₅	CaCO ₃	Depth in feet From	To	Thickness (feet)
Other holes.--Continued									
LP-945 (6405)	Barren						402.4	403.6	1.2
LP-977 (6381)	No sample						418.1	419.2	1.1
LP-985 (6500)	No sample						211.1	212.1	1.0
LP-990 (6313)	Barren						90.2	91.0	0.8
LP-1007-B (6259)	No sample						398.3	399.4	1.1
LP-1010 (6618)	No sample						376.3	377.4	1.1
LP-1017 (6458)	545.8 546.3 546.6 546.7 547.0 547.4	546.3 546.6 546.7 547.0 547.4	0.5 0.3 0.1 0.3 0.4	0.013e 0.074 0.034e 0.14 0.037	0.34 0.12 0.80 1.78 1.36	Undet 0.8 0.8 0.8 0.5			
LP-1026 (6510)	No sample						493.2	493.9	0.7
LP-1043	Barren						501.6	502.5	0.8
							423.7	424.6	0.9

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uruan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet From	To	Thickness (feet)	Percent $\frac{U_3O_8}{V_2O_5}$	Percent $\frac{CaCO_3}{V_2O_5}$	Depth in feet From	To	Thickness (feet)
Other holes.--Continued								
LP-1045 (6107)	221.9	222.8	0.9	0.033	2.8	220.8	221.6	0.8
LP-1069 (6473)	No sample					491.0	492.3	1.3
LP-1094 (6570)	483.8	484.1	0.3	0.093	5.10	485.0	486.1	1.1
	487.8	488.4	0.6	0.081	4.86			
LP-1105 (6455)	563.1	563.6	0.5	0.004e	0.51	567.7	568.5	0.8
LP-1106 (6454)	No sample					548.3	549.2	0.9
LP-1110 (6268)	183.4	183.7	0.3	0.027e	Undet	184.8	185.5	0.7
LP-1111 (6297)	No sample					116.1	117.0	0.9
LP-1121 (6399)	No sample					254.7	255.6	0.9
						255.6	257.8	2.2
						257.8	258.8	1.0
						342.0	343.1	1.1
LP-1125 (6277)	Barren					584.9	585.6	0.7

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5-- Assay data of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data						Gamma-ray data		
	Depth in feet From To		Thickness (feet)	U ₃ O ₈	Percent V ₂ O ₅	CaCO ₃	Percent eU ₃ O ₈	Depth in feet From To	Thickness (feet)
Other holes.--Continued									
IP-1127 (6295)	No sample						0.029	388.6 389.5	0.9
IP-1132 (6260)	343.6	343.9	0.3	0.16	0.48	2.0	0.19	342.0 342.7	0.7
	343.9	344.0	0.1	0.068	0.11	2.1			
IP-1146 (6315)	No sample						0.039	510.5 511.0	0.5
IP-1158 (6145)	No sample						0.033	254.2 254.8	0.6
IP-1159 (6064)	No sample						0.026	266.0 266.6	0.6
IP-1160 (6545)	67.6	68.0	0.4	0.052	<0.10	8.37	0.027	67.5 68.6	1.1
IP-1182 (6186)	No sample						0.023	99.6 100.3	0.7
							0.024	297.5 298.3	0.8
IP-1183 (6374)	No sample						0.027	301.7 302.8	1.1
							0.020	500.8 501.3	0.5

OFFICIAL USE ONLY

Table 5.--- Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.---Continued.

Hole No. and collar elev. (feet)	Assay data			Gamma-ray data		
	Depth in feet From To	Thickness (feet)	Percent U ₃ O ₈ V ₂ O ₅ CaCO ₃	Percent eU ₃ O ₈	Depth in feet From To	Thickness (feet)
Other holes.---Continued						
LP-1184 (6274)	528.8 529.1	0.3	0.068 <0.10 0.6	0.023	518.8 519.5	0.7
	535.2 535.5	0.3	0.021e <0.10 Undet	0.040	529.1 529.7	0.6
	541.7 542.9	1.2	0.025e 0.27 Undet	0.040	535.6 536.3	0.7
	543.2 543.5	0.3	0.014e 0.25 Undet	0.027	543.3 545.0	1.7
	544.1 544.5	0.4	0.022e 0.70 0.9			
	544.5 545.8	0.3	0.004e 0.34 Undet			
LP-1185 (6311)	No sample			0.025	470.1 470.8	0.7
				0.023	491.9 492.6	0.7
LP-1187 (6360)	377.2 377.4	0.2	0.002e 0.72 0.45	0.035	376.3 376.9	0.6
LP-1188 (6368)	350.8 352.0	1.2	0.011e 0.31 Undet	0.033	349.3 350.1	0.8
LP-1191 (6339)	No sample			0.035	357.9 358.7	0.8
LP-1193 (6499)	No sample			0.036	37.4 38.1	0.7

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data			
	Depth in feet From	Thickness (feet)	U3O8	Percent V2O5	CaCO3	Percent eU3O8	Depth in feet From To	Thickness (feet)
Other holes.--Continued.								
LP-1195 (6539)	176.1	176.6	0.003e	0.17	Undet	0.029	39.6	1.3
	176.6	177.0	0.012e	1.04	0.22			
	177.0	177.4	0.027e	0.55	2.12	0.051	177.1	178.4
	177.4	177.8	0.018e	0.29	Undet			
	177.8	178.4	0.028e	<0.10	Undet			
LP-1196 (6580)	178.4	178.8	0.020e	0.27	Undet			
	178.8	179.3	0.020e	2.05	0.22			1.3
	192.6	194.0	0.003e	0.39	Undet			
	275.6	275.8	<0.001e	0.24	Undet	Barren		
	275.8	276.2	0.001e	0.51	0.13			
LP-1199 (6674)	276.2	276.7	0.001e	0.72	<0.10			
	276.7	277.1	<0.001e	0.19	Undet			
	485.0	485.6	0.031e	0.31	Undet	0.037	485.7	486.3
	Barren							
	223.0	223.7	0.029e	<0.10	Undet	0.023	471.6	472.2
LP-1200 (6715)	Barren					Barren		
LP-1207 (6505)	223.0	223.7	0.029e	<0.10	Undet	Barren		
LP-1227 (6255)	No sample					0.030	436.5	437.0
LP-1229 (6316)	406.0	406.6	0.011e	0.28	Undet	Barren		

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data					Gamma-ray data		
	Depth in feet From To	Thickness (feet)	U ₃₀₈	Percent V ₂ O ₅	CaCO ₃	Percent eU ₃₀₈	Depth in feet From To	Thickness (feet)
Other holes--Continued								
LP-1232 (6459)	559.3 560.2	0.9	0.002e	0.33	Undet	Barren		
LP-1234 (6520)	122.1 123.0	0.9	0.008e	0.11	Undet	Barren		
LP-1237 (6492)	No sample					0.024	225.6 226.4	0.8
LP-1238 (6485)	227.7 228.0	0.3	0.079	<0.10	1.0	0.055	227.6 228.3	0.7
LP-1239 (6511)	Barren					0.020	116.3 116.8	0.5
LP-1241 (6604)	431.9 432.0	0.1	0.011e	0.12	Undet	0.027	440.4 441.6	1.2
LP-1249 (6656)	No sample					0.020	495.9 497.6	1.7
LP-1250 (6671)	Barren					0.023	397.0 399.5	2.5
LP-1254 (6503)	No sample					0.033	558.2 559.1	0.9
LP-1259 (6526)	No sample					0.024	25.1 27.0	1.9
						0.029	199.5 200.8	1.3

168

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet From	To	Thickness (feet)	Percent U ₃ O ₈	Percent V ₂ O ₅	Percent CaCO ₃	Depth in feet From	To	Thickness (feet)
Other holes.---Continued									
LP-1262 (6300)	134.8	135.4	0.6	0.008e	0.19	Undet	Barren		
LP-1264 (6452)	No sample						0.032	374.6	375.3
LP-1279 (6580)	No sample						0.032	374.6	375.3
LP-1282 (6423)	562.8	563.4	0.6	0.057	0.60	2.0	0.045	564.1	564.7
LP-1289 (6335)	Barren						0.023	494.5	495.4
LP-1309 (6166)	385.5	385.6	0.1	0.18	<0.10	9.5	0.12	387.2	387.9
LP-1326 (6149)	440.1	440.4	0.3	0.093	<0.10	2.2	0.022	400.1	400.8
LP-1330 (6190)	No sample						0.033	440.1	441.0
LP-1360 (6307)	439.6	439.9	0.3	0.092	0.28	0.64	0.023	294.3	295.3
							0.026	440.2	441.0
									0.8

OFFICIAL USE ONLY

OFFICIAL USE ONLY

Table 5.--Assay data of samples of core from U. S. Geological Survey drill holes in the southern part of the Uravan district, Montrose County, Colo.--Continued.

Hole No. and collar elev. (feet)	Assay data				Gamma-ray data				
	Depth in feet		Thickness (feet)	Percent		Percent eU308	Depth in feet		Thickness (feet)
	From	To		U308	V2O5		CaCO3	From	
Third Park									
UD-11 (5262)	56.1	56.4	0.3	0.024e	49.10	0.31	55.0	58.0	3.0
							65.8	66.6	0.8
UD-28 (5497)	No sample						199.3	200.1	0.8

OFFICIAL USE ONLY