National Uranium Resource Evaluation

**Airborne Gamma-Ray Spectrometer
And Magnetometer Survey
Weed Quadrangle, California**

Final Report - Volume II

**Aero Service Division
Western Geophysical Company of America
Houston, Texas 77001**

April 1981

PREPARED FOR U.S. DEPARTMENT OF ENERGY
Assistant Secretary for Resource Applications
Grand Junction Office, Colorado

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This report is a result of work performed by Aero Service Division Western Geophysical Company of America through a Bendix Field Engineering Corporation Subcontract, as part of the National Uranium Resource Evaluation. NURE is a program of the U.S. Department of Energy's Grand Junction, Colorado, Office to acquire and compile geologic and other information with which to assess the magnitude and distribution of uranium resources and to determine areas favorable for the occurrence of uranium in the United States.

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GEOLOGIC LEGEND

<u>Aero Symbol</u>	<u>Map Symbol</u>	<u>Unit Description</u>
---	Qs	Recent dune and coast sand
QAL	Qal	Recent alluvium
QRV	Qrv	Recent volcanic rocks, including: rhyolite andesite basalt pyroclastic rocks
---	Qrv ^r	
QRVA	Qrv ^a	
QRVB	Qrv ^b	
QRVP	Qrv ^p	
QL	Ql	Quaternary lake deposits
QG	Qg	Quaternary lake deposits
QT	Qt	Quaternary nonmarine terrace deposits
---	Qm	Pleistocene marine and marine terrace deposits
QC	Qc	Pleistocene nonmarine sedimentary deposits
QPV	Qpv	Pleistocene volcanic rocks, including: rhyolite andesite basalt pyroclastic rocks
---	Qpv ^r	
QPVA	Qpv ^a	
QPVB	Qpv ^b	
QPVP	Qpv ^p	
QP	QP	Pliocene-Pleistocene nonmarine sedimentary deposits
---	*	Quaternary and/or Pliocene cinder cones
---	Pu	Upper Pliocene marine sedimentary rocks
---	Pv	Pliocene volcanic rocks, including: rhyolite andesite basalt pyroclastic rocks
---	Pv ^r	
PVA	Pv ^a	
PVB	Pv ^b	
PVP	Pv ^p	
---	Mu	Upper Miocene marine sedimentary rocks
---	Tc	Tertiary nonmarine sedimentary rocks
---	Tm	Tertiary marine sedimentary rocks
---	Ti	Tertiary intrusive rocks, including: rhyolite andesite basalt
---	Ti ^r	
TIA	Ti ^a	
---	Ti ^b	

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<u>Aero Symbol</u>	<u>Map Symbol</u>	<u>Unit Description</u>	<u>Aero Symbol</u>	<u>Map Symbol</u>	<u>Unit Description</u>
TV	Tv & Tv ^r & Tv ^a & Tv ^b & Tv ^p	Tertiary volcanic rocks, including: rhyolite andesite basalt pyroclastic rocks	DV	Dv, Dv?	Devonian and pre-Devonian (?) metavolcanic rocks
KU	Ku	Upper Cretaceous marine sedimentary rocks	S	s	Silurian marine sedimentary and metasedimentary rocks
—	Kjfv	Franciscan volcanic and metavolcanic rocks	PSS	pSs	Pre-Silurian metasedimentary rocks
KJF	KJf	Franciscan Formation	PS	pS	Pre-Silurian (?) metamorphic rocks, undifferentiated
GR GRA GRG	gr Gr ^a Gr ^g	Mesozoic granitic rocks including: granite and adamellite tonalite and diorite	PSV	pSv	Pre-Silurian metavolcanic rocks
BI	bi	Mesozoic basic intrusives	O	O	Ordovician marine sedimentary and metasedimentary rocks
JU	Ju	Upper Jurassic marine sedimentary and metasedimentary rocks	UNK	—	Unknown or incompletely mapped geology
JML	Jml	Middle and lower Jurassic marine sedimentary and metasedimentary rocks	W	—	Water
UB	ub	Mesozoic ultrabasic intrusives			
TR	T	Triassic marine sedimentary and metasedimentary rocks			
JTRV	JTv	Jurassic and/or Triassic metavolcanic rocks			
M	m	Pre-Cretaceous metamorphic rocks, undifferentiated, including:			
LS	ls	limestone and dolomite			
MS	ms	Pre-Cretaceous metasedimentary rocks			
MV	mv	Pre-Cretaceous metavolcanic rocks			
PCM	R _m & C	Permian marine sedimentary and metasedimentary rocks Undivided Carboniferous marine sedimentary and metasedimentary rocks			
PMV	R _m v	Permian volcanic rocks			
CM	CM	Mississippian marine sedimentary and metasedimentary rocks			
D	D	Devonian marine sedimentary and metasedimentary rocks

→ 90°
0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
NEED
LINE 460

→ 90°

0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 490

→ 90°
0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980
DOE/NURE
WEED
LINE 500

→ 90°

0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 510

→ 90°

0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 520

→ 90°
0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980
DOE/NURE
WEEU
LINE 530

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 540

→ 90°

0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 550

→ 0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 3020

DOE/NURE
WEED
LINE 3030

DOE/NURE
WEED
LINE 3040

90°

0 1 2 3 MILES

0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0627
FLOWN 1980

DOE/NURE
WEED
LINE 450

→ 90°

0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/MURE
NEED
LINE 480

→ 90°
0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980
DOE/NURE
WEED
LINE 490

→ 90°

0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 500

→ 90°
0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980
DOE/NURE
WEED
LINE 530

90

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 540

→ 90°

0 1 2 3 MILES

0 1 2 3 4 5 KILOMETERS

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 550

→ 00°
 0 1 2 3 MILES
 0 1 2 3 4 5 KILOMETERS

AERO SERVICE
 JOB 0624
 FLOWN 1980

DOE/NURE
 WEED
 LINE 3000

AERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 3010

→ 00 0 1 2 3 MILES
0 1 2 3 4 5 KILOMETERS

HERO SERVICE
JOB 0624
FLOWN 1980

DOE/NURE
WEED
LINE 3020

AERO SERVICE
JOB 0627
FLOWN 1980

DOE/NURE
NEED
LINE 3040

AERO SERVICE
JOB 0627
FLOWN 1980

DOE/NURE
WEED
LINE 3050

WEED
NK 10-8

FORMATION
TOTAL SAMPLES 3407

AERO SERVICE
1980

WEED
NK 10-8

FORMATION QRV
TOTAL SAMPLES 98

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

QRVA
642

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES 860

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES 55

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

QL
266

AERO SERVICE
1980

WEED
NK 10-8

FORMATION QG
TOTAL SAMPLES 959

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES 120

AERO SERVICE
1980

WEED
NK 10-8

FORMATION QC
TOTAL SAMPLES 245

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

QPV
440

AERO SERVICE
1980

WEED
NK 10-8

FORMATION QPVA
TOTAL SAMPLES 98

AERO SERVICE
1980

WEED
NK 10-8

FORMATION QPVB
TOTAL SAMPLES 121

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

QPVP
31

AERO SERVICE
1980

WEED
NK 10-8

FORMATION QP
TOTAL SAMPLES 56

AERO SERVICE
1980

WEED
NK 10-8

FORMATION PVA
TOTAL SAMPLES 276

AERO SERVICE
1980

WEED
NK 10-8

FORMATION PVB
TOTAL SAMPLES 1930

AERO SERVICE
1980

WEED
NK 10-8

FORMATION PVP
TOTAL SAMPLES 110

AERO SERVICE
1980

WEED
NK 10-8

FORMATION TIA
TOTAL SAMPLES 13

AERO SERVICE
1980

WEED
NK 10-8

FORMATION TV
TOTAL SAMPLES 2290

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES 407

AERO SERVICE
1980

WEED
NK 10-8

FORMATION KJF
TOTAL SAMPLES 2350

AERO SERVICE
1980

WEED
NK 10-8

FORMATION GR
TOTAL SAMPLES 5773

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

GRA
95

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

GRG
433

AERO SERVICE
1980

WEED
NK 10-8

FORMATION BI
TOTAL SAMPLES 1511

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

JU
5500

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

JML
74

AERO SERVICE
1980

WEED
NK 10-8

FORMATION UB
TOTAL SAMPLES 8662

AERO SERVICE
1980

WEED
NK 10-8

FORMATION TR
TOTAL SAMPLES 343

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

JTRV
489

AERO SERVICE
1980

WEED
NK 10-8

FORMATION M
TOTAL SAMPLES 7283

AERO SERVICE
1980

WEED
NK 10-8

FORMATION LS
TOTAL SAMPLES 14

AERO SERVICE
1980

WEED
NK 10-8

FORMATION MS
TOTAL SAMPLES 2422

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

MV
2595

AERO SERVICE
1980

WEED
NK 10-8

FORMATION PCM
TOTAL SAMPLES 191

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

PMV
474

AERO SERVICE
1980

WEED
NK 10-8

FORMATION CM
TOTAL SAMPLES 615

AERO SERVICE
1980

WEED
NK 10-8

FORMATION D
TOTAL SAMPLES 102

AERO SERVICE
1980

WEED
NK 10-8

FORMATION DV
TOTAL SAMPLES 243

AERO SERVICE
1980

WEED
NK 10-8

FORMATION S
TOTAL SAMPLES 208

AERO SERVICE
1980

WEED
NK 10-8

FORMATION
TOTAL SAMPLES

PSS
517

AERO SERVICE
1980

WEED
NK 10-8

FORMATION PS
TOTAL SAMPLES 1438

AERO SERVICE
1980

WEED
NK 10-8

FORMATION PSV
TOTAL SAMPLES 566

AERO SERVICE
1980

WEED
NK 10-8

FORMATION 0
TOTAL SAMPLES 1391

AERO SERVICE
1980

WEED
NK 10-8

FORMATION UNK
TOTAL SAMPLES 114

AERO SERVICE
1980

WEED
NK 10-8

FORMATION W
TOTAL SAMPLES 61

AERO SERVICE
1980

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED..... DATA ADEQUATE
FLIGHT PATH BLANK..... DATA INADEQUATE

++..... COUNT RATE GREATER THAN 3.2,1 STANDARD DEVIATION (S)
+..... ABOVE MEAN
-..... COUNT RATE LOWER THAN 3.2,1 STANDARD DEVIATION (S)
-..... BELOW MEAN

NEITHER + NOR -..... COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWS AND COMPILED..... 1980 - 1991

URANIUM ANOMALY MAP

NEED

MX 10-8

DOE / MURE

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED..... DATA ADEQUATE
FLIGHT PATH BLANK..... DATA INADEQUATE

..... COUNT RATE GREATER THAN 3.2.1 STANDARD DEVIATION (S)
..... ABOVE MEAN
..... COUNT RATE LOWER THAN 3.2.1 STANDARD DEVIATION (S)
..... BELOW MEAN

NEITHER + NOR COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWN AND COMPILED..... 1980 - 1981

THORIUM ANOMALY MAP

WEED

NK 10-8

DDE / NURE

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED.....DATA ADEQUATE
FLIGHT PATH BLANK.....DATA INADEQUATE

.....COUNT RATE GREATER THAN 3.2.1 STANDARD DEVIATION (S)
.....ABOVE MEAN
.....COUNT RATE LOWER THAN 3.2.1 STANDARD DEVIATION (S)
.....BELOW MEAN

NEITHER * NORCOUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWN AND COMPILED.....1980 - 1991

POTASSIUM ANOMALY MAP

WEED

MK 10-8

DBE / NURE

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED.....DATA ADEQUATE
FLIGHT PATH BLANK.....DATA INADEQUATE

+.....COUNT RATE GREATER THAN 3.2.1 STANDARD DEVIATION(S)
+.....ABOVE MEAN
+.....COUNT RATE LOWER THAN 3.2.1 STANDARD DEVIATION(S)
+.....BELOW MEAN

NEITHER + NORCOUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWN AND COMPILED.....1980 - 1981

URANIUM/POTASSIUM ANOMALY MAP

NEED

NK 10-8

DOE / NURE

AERO SERVICE
HONOLULU, TEXAS 77001

FLIGHT PATH PLOTTED..... DATA ADEQUATE
 FLIGHT PATH BLANK..... DATA INADEQUATE
 +..... COUNT RATE GREATER THAN 3.2.1 STANDARD DEVIATION (S)
 .. COUNT RATE ABOVE MEAN
 -..... COUNT RATE LOWER THAN 3.2.1 STANDARD DEVIATION (S)
 .. COUNT RATE BELOW MEAN
 NEITHER + NOR -..... COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
 FLOWN AND COMPILED..... 1980 - 1991.

URANIUM/THORIUM ANOMALY MAP

NEED
 NK 10-8
 DOE / NURE

AERO SERVICE
HOUSTON, TEXAS 77001

FLIGHT PATH PLOTTED.....DATA ADEQUATE
FLIGHT PATH BLANK.....DATA INADEQUATE

+.....COUNT RATE GREATER THAN 3.2,1 STANDARD DEVIATION(S)
+.....ABOVE MEAN
-.....COUNT RATE LOWER THAN 3.2,1 STANDARD DEVIATION(S)
-.....BELOW MEAN

NEITHER + NOR -.....COUNT RATE WITHIN ONE STANDARD DEVIATION OF MEAN
FLOWN AND COMPILED.....1980 - 1981

THORIUM/POTASSIUM ANOMALY MAP

NEED

NK 10-8

DOE / NURE

RENUMBERED TO ORIGINAL FIDUCIAL CORRELATIONS

The data reduction process as used in the processing of the airborne gamma-ray spectrometer and magnetometer data includes steps to eliminate duplicate line segments, insert reflight segments where required, order the remaining line segments, and renumber the fiducials of these segments such that the resulting final line is directionally consistent and has location sequential sample numbers. All fiducial numbers shown on the maps and profiles included in this volume are the new, renumbered fiducials. The following listing relates these numbers to the original fiducial numbers recorded in flight. This listing gives both the line number as it appears on all final data and the line number as recorded in flight. Similarly, the start and end fiducials of each final line and/or line segment shown on the flight path base map are given along with the corresponding start and end fiducials as recorded in flight. When correlated with the final fiducial numbers, the original fiducials will increase sequentially for lines flown west to east or south to north and decrease for lines flown in the opposite directions.

WEED QUADRANGLE

LINE 450 FLOWN AS LINE 451 AND 450
MAP FIDUCIALS 4226 TO 7300 CORRESPOND TO ORIGINAL FIDUCIALS 7300 TO 4226
MAP FIDUCIALS 7301 TO 8018 CORRESPOND TO ORIGINAL FIDUCIALS 19885 TO 19167

LINE 460 FLOWN AS LINE 461 AND 460
MAP FIDUCIALS 747 TO 3599 CORRESPOND TO ORIGINAL FIDUCIALS 3599 TO 747
MAP FIDUCIALS 3600 TO 4309 CORRESPOND TO ORIGINAL FIDUCIALS 15990 TO 16700

LINE 470 FLOWN AS LINE 471 AND 470
MAP FIDUCIALS 5971 TO 8602 CORRESPOND TO ORIGINAL FIDUCIALS 8602 TO 5971
MAP FIDUCIALS 8603 TO 9356 CORRESPOND TO ORIGINAL FIDUCIALS 15607 TO 14853

LINE 480 FLOWN AS LINE 481 AND 483
MAP FIDUCIALS 9479 TO 12329 CORRESPOND TO ORIGINAL FIDUCIALS 12329 TO 9479
MAP FIDUCIALS 12330 TO 13054 CORRESPOND TO ORIGINAL FIDUCIALS 4418 TO 2028

LINE 490 FLOWN AS LINE 491 AND 492
MAP FIDUCIALS 6137 TO 8937 CORRESPOND TO ORIGINAL FIDUCIALS 8937 TO 6137
MAP FIDUCIALS 8938 TO 9631 CORRESPOND TO ORIGINAL FIDUCIALS 5759 TO 7071

LINE 500 FLOWN AS LINE 501 AND 502
MAP FIDUCIALS 10333 TO 12846 CORRESPOND TO ORIGINAL FIDUCIALS 12846 TO 10333
MAP FIDUCIALS 12847 TO 13623 CORRESPOND TO ORIGINAL FIDUCIALS 232 TO 1008

LINE 510 FLOWN AS LINE 511 AND 510
MAP FIDUCIALS 13091 TO 15787 CORRESPOND TO ORIGINAL FIDUCIALS 15787 TO 13091
MAP FIDUCIALS 15788 TO 16550 CORRESPOND TO ORIGINAL FIDUCIALS 1799 TO 2561

LINE 520 FLOWN AS LINE 521 AND 520
MAP FIDUCIALS 16027 TO 18742 CORRESPOND TO ORIGINAL FIDUCIALS 18742 TO 16027
MAP FIDUCIALS 18743 TO 19554 CORRESPOND TO ORIGINAL FIDUCIALS 9256 TO 8444

LINE 530 FLOWN AS LINE 531 AND 530
MAP FIDUCIALS 10876 TO 14132 CORRESPOND TO ORIGINAL FIDUCIALS 14132 TO 10876
MAP FIDUCIALS 14133 TO 14339 CORRESPOND TO ORIGINAL FIDUCIALS 12680 TO 12887

LINE 540 FLOWN AS LINE 541 AND 540
MAP FIDUCIALS 7417 TO 10698 CORRESPOND TO ORIGINAL FIDUCIALS 10698 TO 7417
MAP FIDUCIALS 10699 TO 10931 CORRESPOND TO ORIGINAL FIDUCIALS 19897 TO 19664

LINE 550 FLOWN AS LINE 551 AND 550
MAP FIDUCIALS 28 TO 1960 CORRESPOND TO ORIGINAL FIDUCIALS 1960 TO 28
MAP FIDUCIALS 1961 TO 3815 CORRESPOND TO ORIGINAL FIDUCIALS 15779 TO 6271

LINE 560 FLOWN AS LINE 560 AND 561
MAP FIDUCIALS 2468 TO 5676 CORRESPOND TO ORIGINAL FIDUCIALS 5676 TO 2468
MAP FIDUCIALS 5677 TO 5958 CORRESPOND TO ORIGINAL FIDUCIALS 5617 TO 5335

LINE 3000 FLOWN AS LINE 3000
MAP FIDUCIALS 270 TO 2613 CORRESPOND TO ORIGINAL FIDUCIALS 2613 TO 270

WEED QUADRANGLE

LINE 3010 FLOWN AS LINE 3010
MAP FIDUCIALS 9656 TO 11950 CORRESPOND TO ORIGINAL FIDUCIALS 11950 TO 9656

LINE 3020 FLOWN AS LINE 3021
MAP FIDUCIALS 7110 TO 9623 CORRESPOND TO ORIGINAL FIDUCIALS 9623 TO 7110

LINE 3030 FLOWN AS LINE 3033
MAP FIDUCIALS 1818 TO 3956 CORRESPOND TO ORIGINAL FIDUCIALS 3956 TO 1818

LINE 3040 FLOWN AS LINE 3041
MAP FIDUCIALS 549 TO 4803 CORRESPOND TO ORIGINAL FIDUCIALS 4803 TO 549

LINE 3050 FLOWN AS LINE 3050
MAP FIDUCIALS 2206 TO 4528 CORRESPOND TO ORIGINAL FIDUCIALS 4528 TO 2206

MASTER