

Tertiary
 Miocene
 Triassic & Jurassic

Tfst
 Basalt and andesite: Gray to dark grey porphyritic and non-porphyritic basalt and andesite. Includes tuffaceous sedimentary rocks. Referred to as Strawberry Volcanics or unnamed igneous complex.

JRsv
 Sedimentary and volcanic rocks: Includes volcanic wacke and siltstone, conglomerate, slate, chert, with minor limestone. Metamorphosed, folded and locally foliated.

EXPLANATION

Tot Ash-flow tuff: Rhyolite to rhyodacite crystal-rich ash-flow tuff with related air-fall tuff.

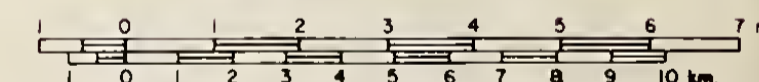
Ts Tuffaceous sediments and tuff: Tuffaceous sandstone, siltstone, claystone, pumice, diatomite, and tuff. Includes the Drewsey Formation.

Twl Ash-flow tuffs and tuffaceous sedimentary rocks: Rhyolitic to rhyodacitic, crystal-rich ash-flow tuff. Minor tuffaceous sedimentary rocks. Correlative with Dinner Creek Tuff.

Trh Rhyolite and dacite: Rhyolite to dacite flows and flow breccias. Includes perthite rhyolite. Porphyritic with phenocrysts of alkali feldspar, plagioclase, hornblende, and biotite. Correlative with the Little Field Rhyolite and rhyolite at Owyhee Dam in the southern region.



Scale 1:125,000



 Contact
 Dashed where approximately located

 Fault
 Dashed where approximately located
 Bar and bar on downthrown side

 Orolnege



GEOLOGY

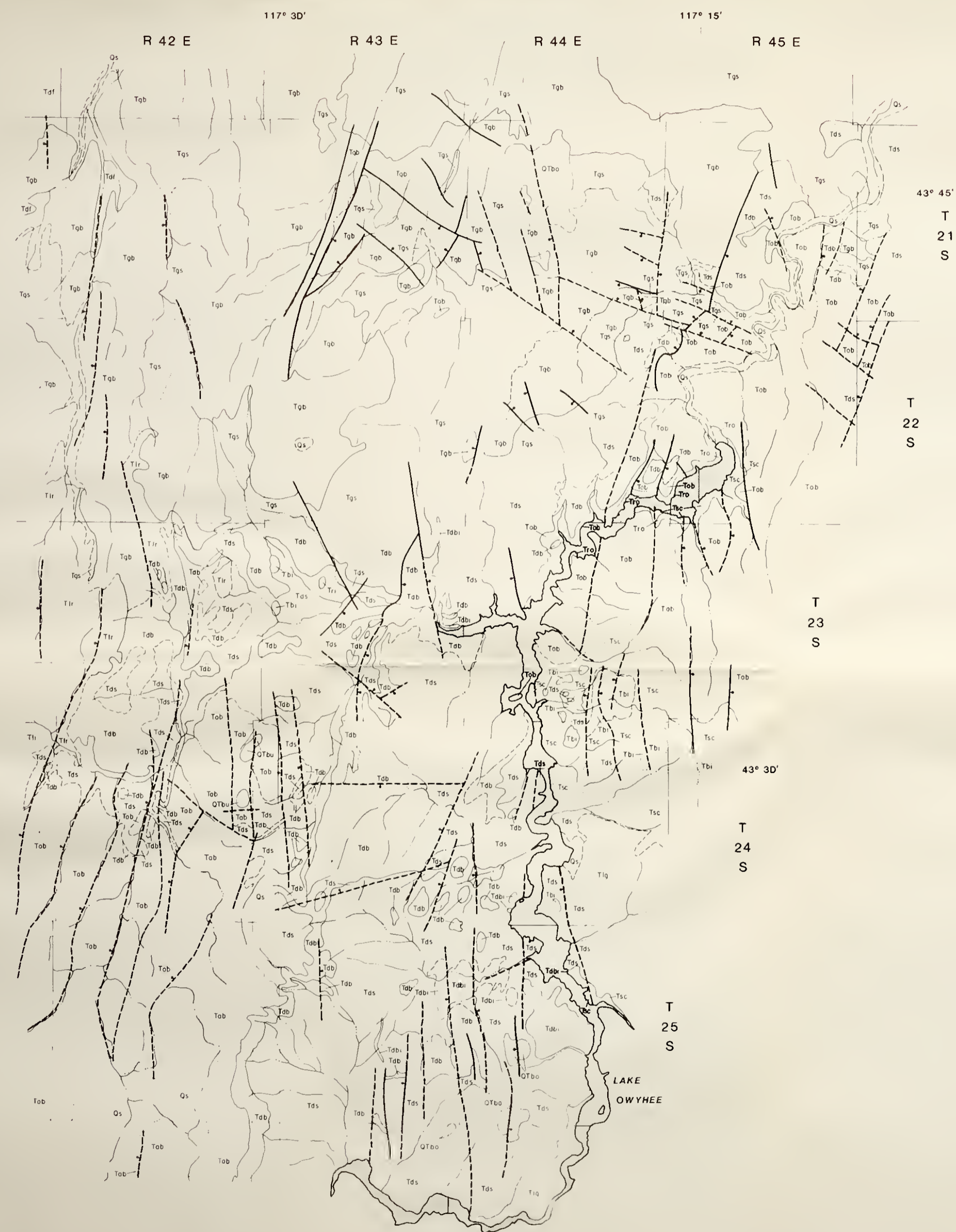
Area A - Northern Malheur Resource Area

Data for:
 BUR. OF LAND MANAGEMENT
 No. Malheur Resource Area
 Vale District, Oregon

Plate I

80071

Walker, 1977



EXPLANATION

- Qs** Surficial deposits: Includes stream terraces, landslides, and talus deposits.
- QTbu** Basalt flows: Undifferentiated basalt flows that overlie older Miocene and Pliocene rocks.
- QTbo** Basalt flows of Cow Creek: Olivine basalt flows with interbedded volcanoclastic rocks.
- Tob** Antelope Flat Basalt: Aphanitic basalt and basaltic andesite interbedded with volcanoclastic rocks.
- Tds** Drip Spring Formation: Volcanoclastic and clastic fluvial and lacustrine rocks.
- Tir** Littlefield Rhyolite: Multiple flows of flow-foliated porphyritic rhyolite. Contains phenocrysts of plagioclase, potassium feldspar, and pyroxene.
- Tob** Owyhee Basalt: Multiple flows of olivine-poor basalt and andesitic basalt.
- Tsc** Sucker Creek Formation: Volcanoclastic and clastic rocks of volcanic, fluvial, and lacustrine origin. Includes arkosic sandstones.
- Tiq** Leslie Gulch ash flow tuff. Silicic ash flow tuff with phenocrysts of quartz and sanidine.
- Tri** Rhyolite: Undifferentiated intrusive and extrusive rhyolitic rocks of limited areal extent.
- Tdbi** **Tbi** Intrusive and extrusive basaltic rocks: Olivine basalts that are intrusive into Daer Creek Butte Formation. Small basaltic intrusions, volcanic necks, flows, and sills.
- Tgb** **Tgs** Grassy Mountain Formation: Flows of olivine basalt interbedded with Tgs. Volcanoclastic and clastic fluvial sedimentary rocks, some arkosic.
- Tdb** **Tds** Daer Butte Formation: Olivine basalt flows. Volcanoclastic and clastic fluvial and lacustrine rocks. Includes arkosic sandstones and conglomerates.

ROCKS OF UNCERTAIN STRATIGRAPHIC POSITION

- Tri** Rhyolite: Undifferentiated intrusive and extrusive rhyolitic rocks of limited areal extent.
- Tdbi** **Tbi** Intrusive and extrusive basaltic rocks: Olivine basalts that are intrusive into Daer Creek Butte Formation. Small basaltic intrusions, volcanic necks, flows, and sills.

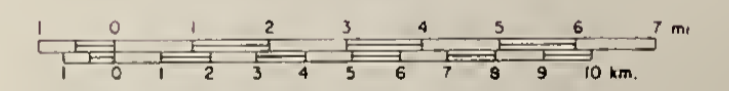
Contact
 Dashed where approximately located
 Dotted where inferred

Fault
 Dashed where approximately located
 Belt and bar on downthrown side

Drainage



Scale 1:125,000



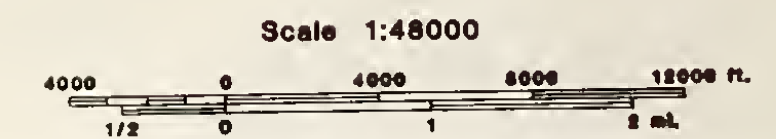
GEOLOGY
 Area B - Northern Malheur Resource Area

Data for:
 BUR. OF LAND MANAGEMENT
 No. Malheur Resource Area
 Vale District, Oregon

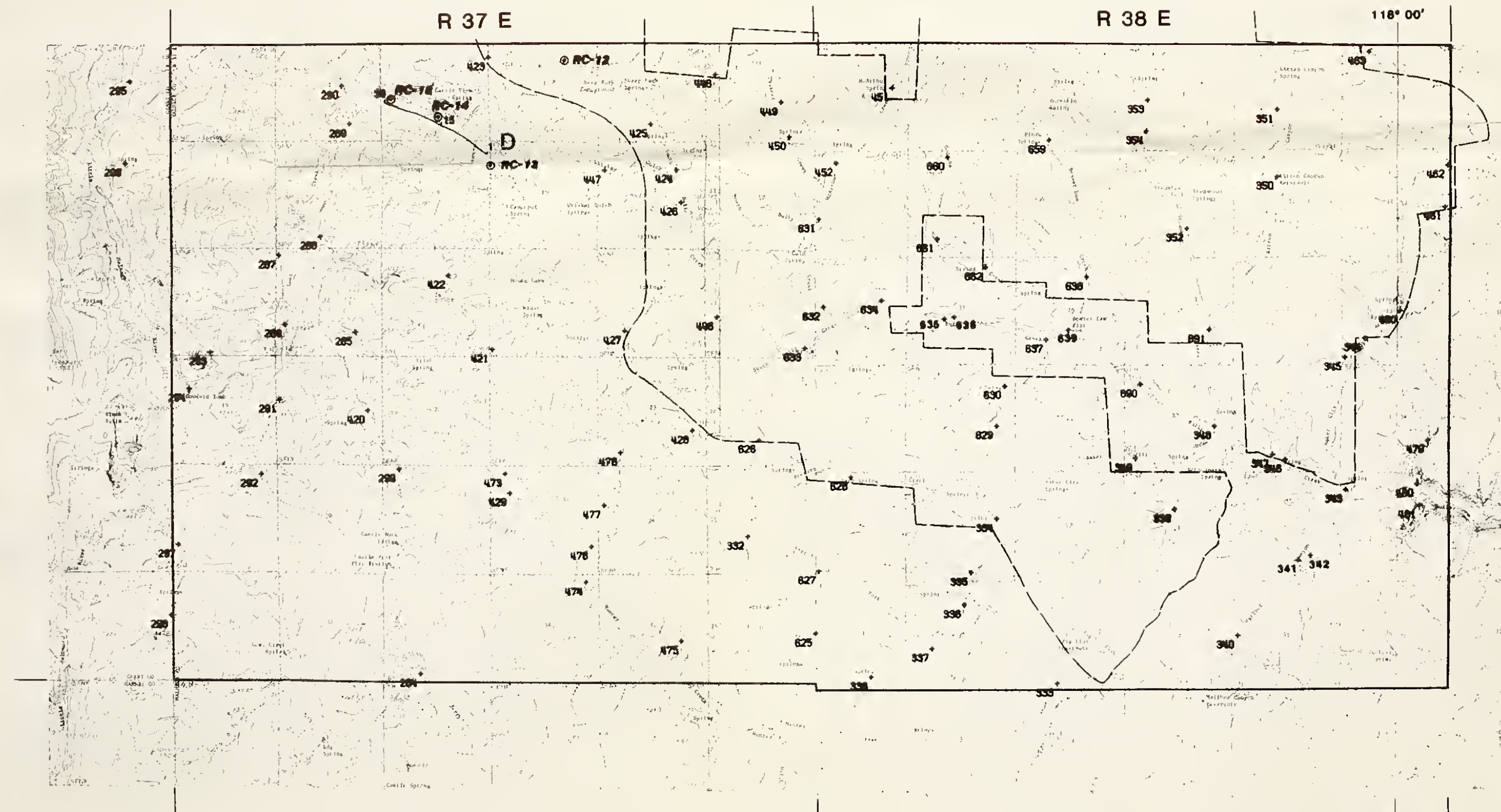
Plate II

50071

Kittiman and others, 1967



T
17
S



- Stream sediment samples
- Rock chip samples
- D 15 30 Soil traverse
- WSA 3-27 Survey boundary



SAMPLE LOCATIONS

Area A

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate 1

SERVICES FOR THE EARTH SCIENCES



118° 00'

R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

T 21 S

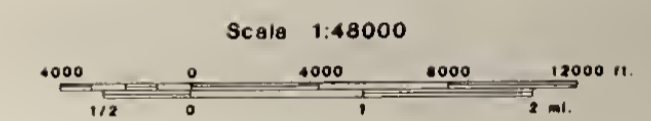
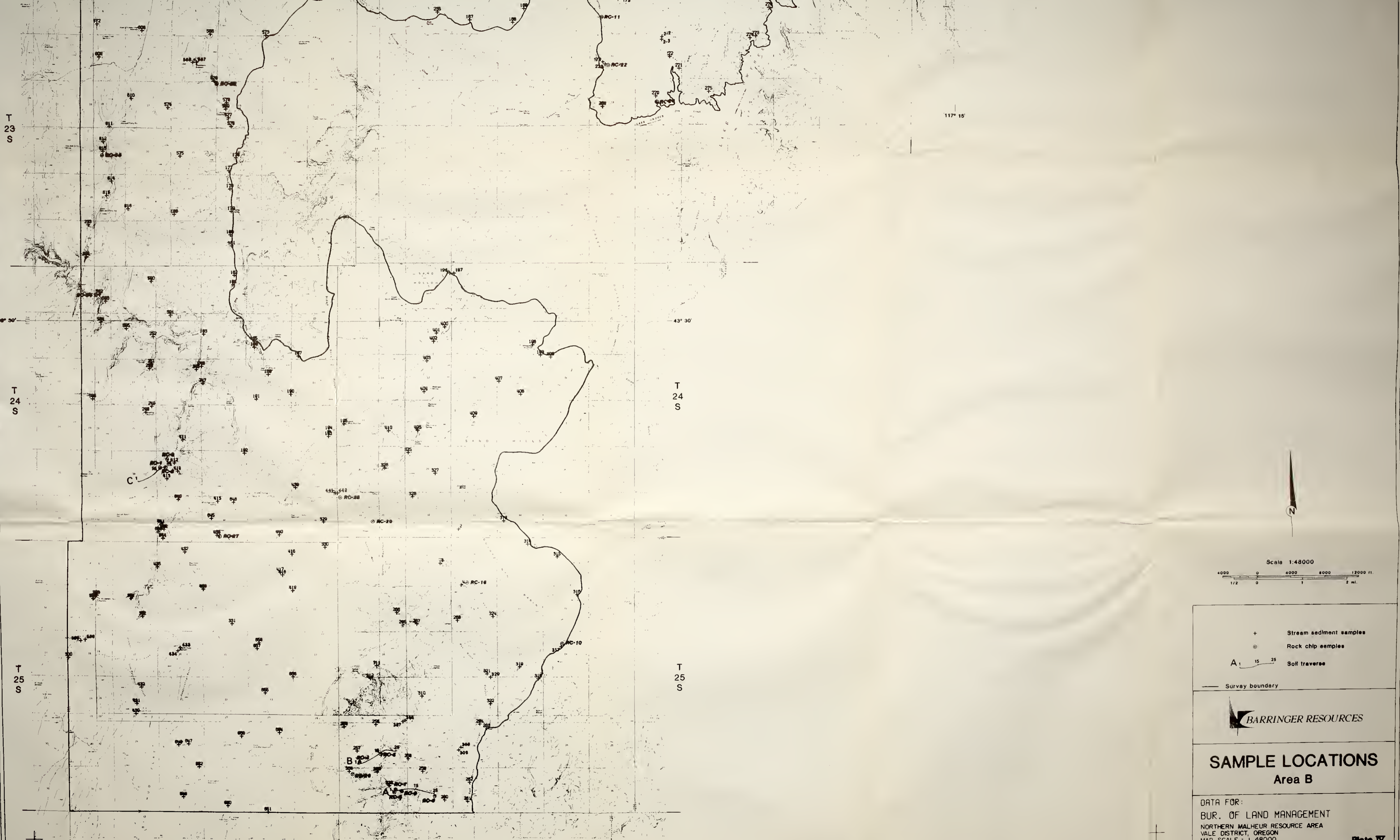
T 21 S

T 22 S

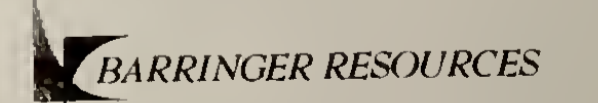
T 23 S

117° 15'





- + Stream sediment samples
- o Rock chip samples
- A 15 25 Soil traverse
- Survey boundary



SAMPLE LOCATIONS Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate IV

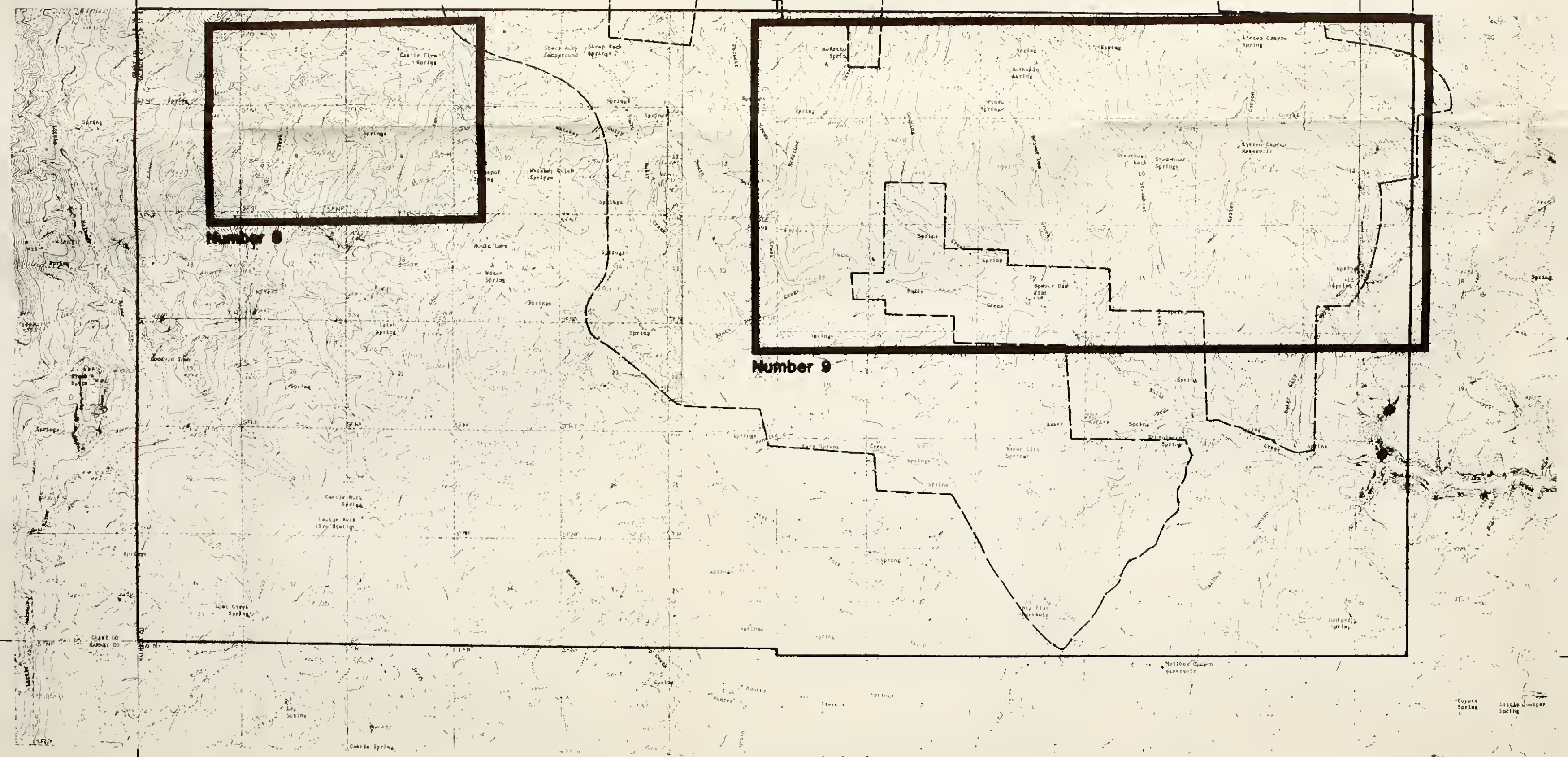
SERVICES FOR THE EARTH SCIENCES



R 37 E

R 38 E

118° 00'



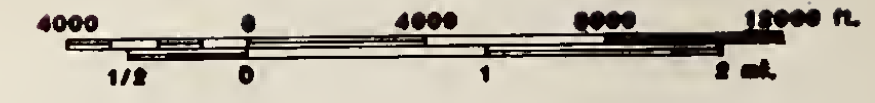
T
17
S



118° 00'



Scale 1:48000



Lithologic Training Sets

- No. 8 pre-Cenozoic rocks
- No. 9 Tertiary volcanic rocks (mostly of mafic affinity)
- Samples classified as unknown
- WSA 3-27 — Survey boundary



DISCRIMINANT ANALYSIS

Area A

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate C-1

SERVICES FOR THE EARTH SCIENCES

R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

T 21 S

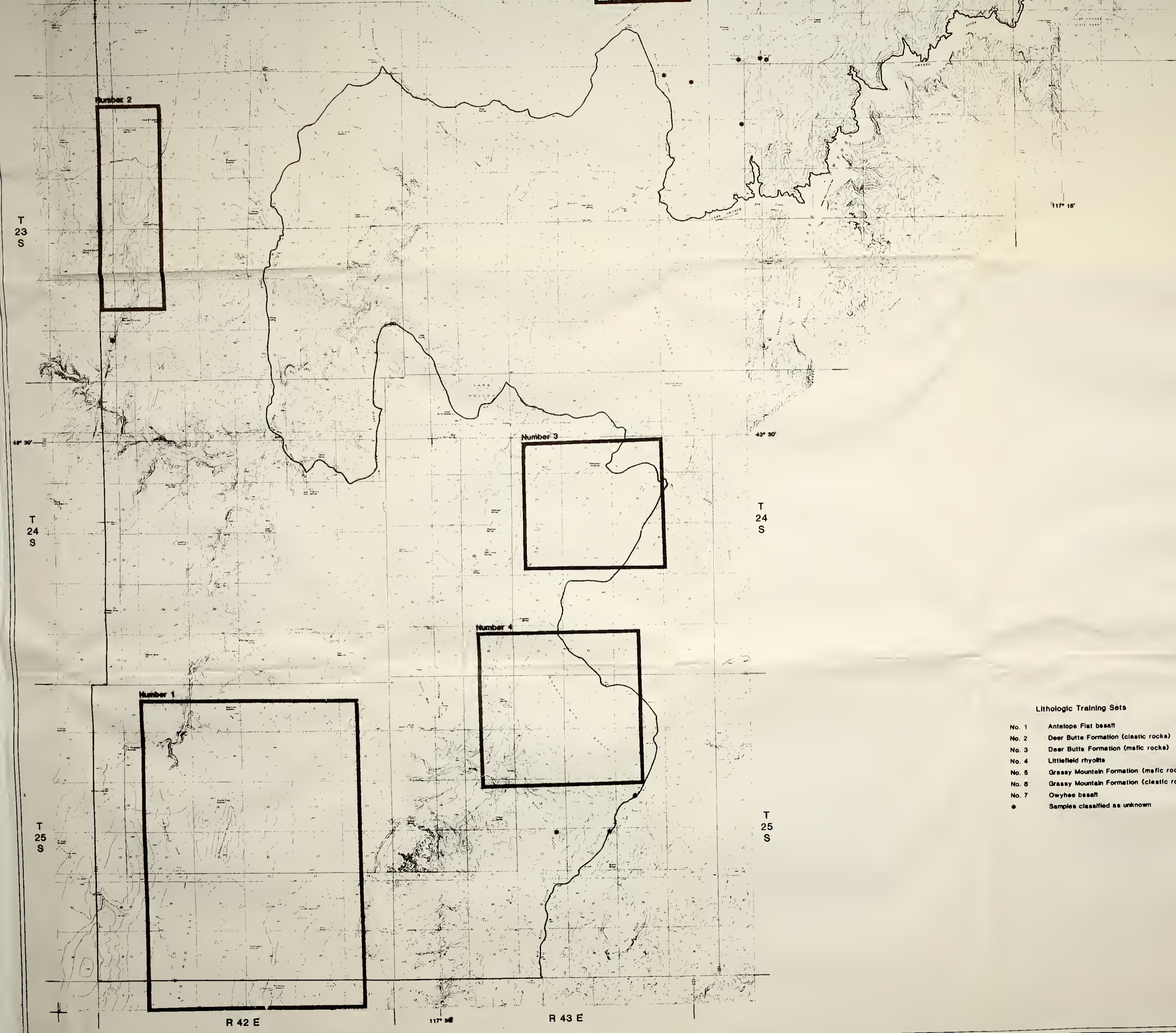
T 21 S

T 22 S

T 23 S

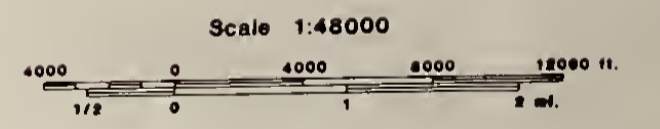


117° 15'




Lithologic Training Sets

- No. 1 Antelope Flat basalt
- No. 2 Deer Butte Formation (clastic rocks)
- No. 3 Deer Butte Formation (mafic rocks)
- No. 4 Littlefield rhyolite
- No. 5 Grassy Mountain Formation (mafic rocks)
- No. 6 Grassy Mountain Formation (clastic rocks)
- No. 7 Owyhee basalt
- Samples classified as unknown



Survey boundary

 **BARRINGER RESOURCES**

DISCRIMINANT ANALYSIS

Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate C-2

SERVICES FOR THE EARTH SCIENCES

R 42 E

117° 30'

R 43 E

117° 15'

43° 30'

T 24 S

T 25 S

T 23 S

T 24 S

T 25 S



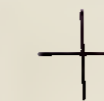
R 37 E

R 38 E

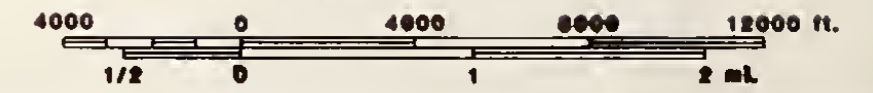
118° 00'

T 17 S

118° 00'



Scale 1:48000



ALL DATA LOG(10) TRANSFORMED
MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
PLOT AS DOTS. VALUES POSTED IN PPM.

--- WSA 3-27 ——— Survey boundary



BARRINGER RESOURCES

ARSENIC

Area A

DATA FOR:
BUR. OF LAND MANAGEMENT
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-III

SERVICES FOR THE EARTH SCIENCES

R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

43° 45'

T 21 S

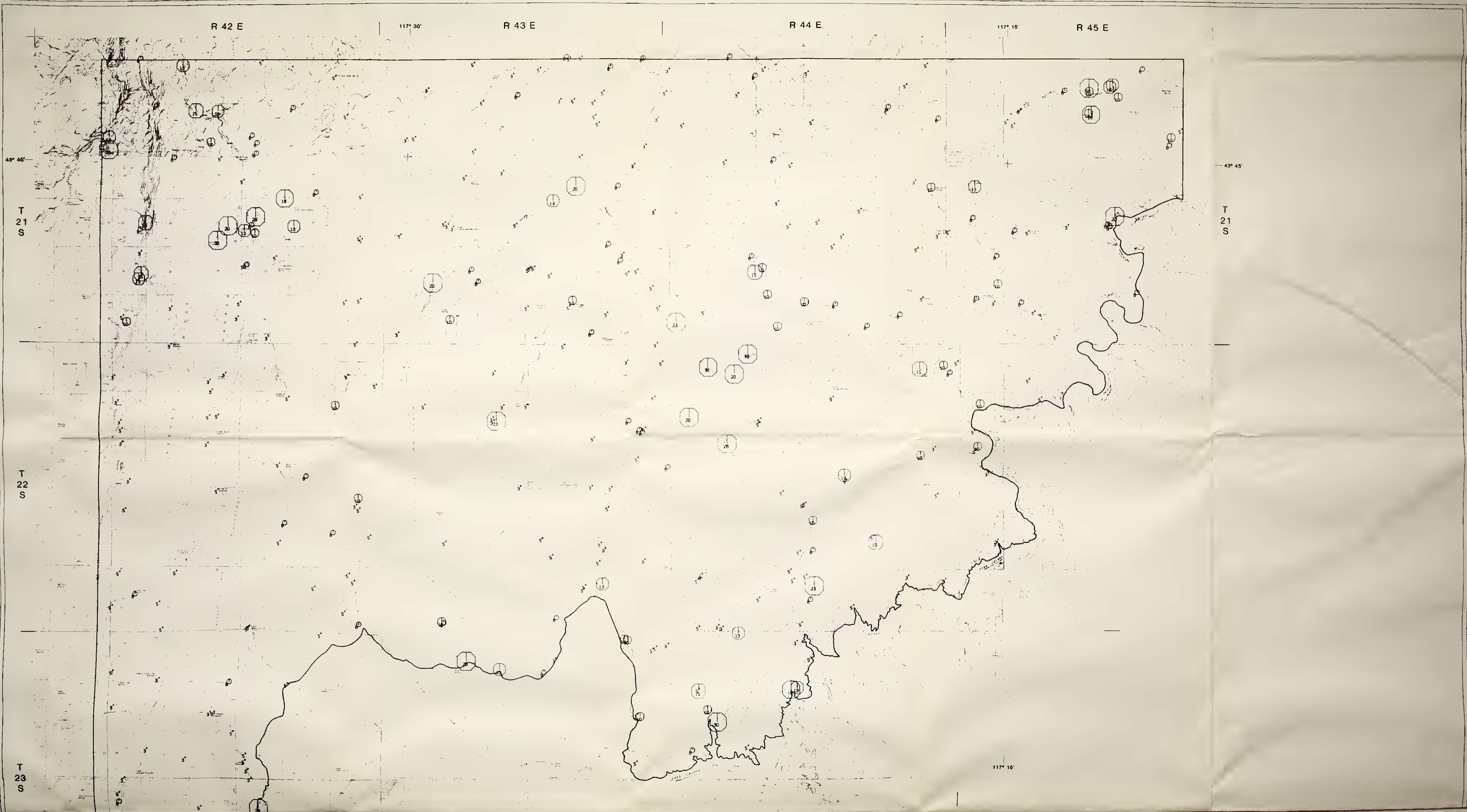
43° 45'

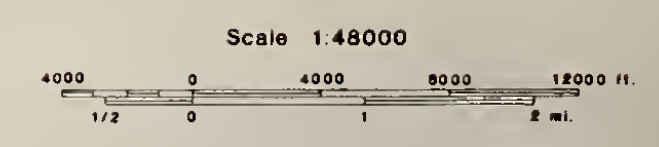
T 21 S

T 22 S

T 23 S

117° 15'





ALL DATA LOG110 TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS 0015. VALUES POSTED IN PPM.
 — Survey boundary

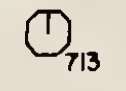
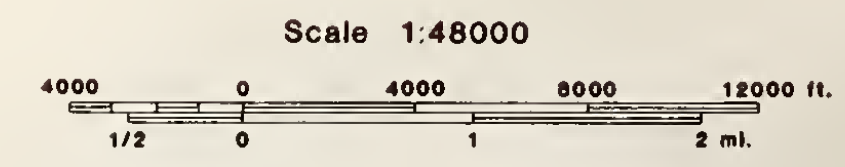
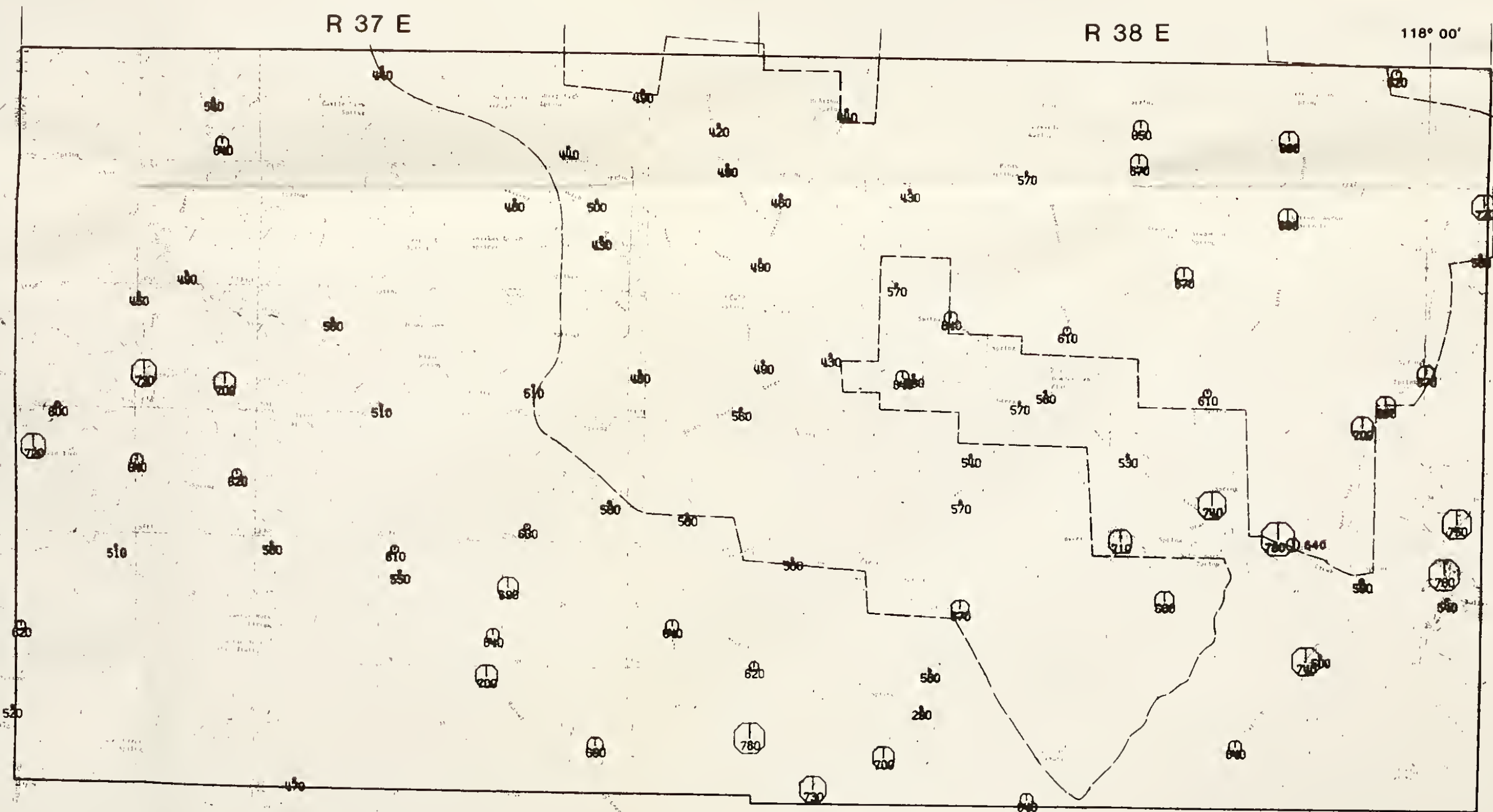


ARSENIC Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-IV

SERVICES FOR THE EARTH SCIENCES



566

ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 WSA 3-27 Survey boundary



BARIUM

Area A

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-V

SERVICES FOR THE EARTH SCIENCES

118° 00'

R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

T 21 S

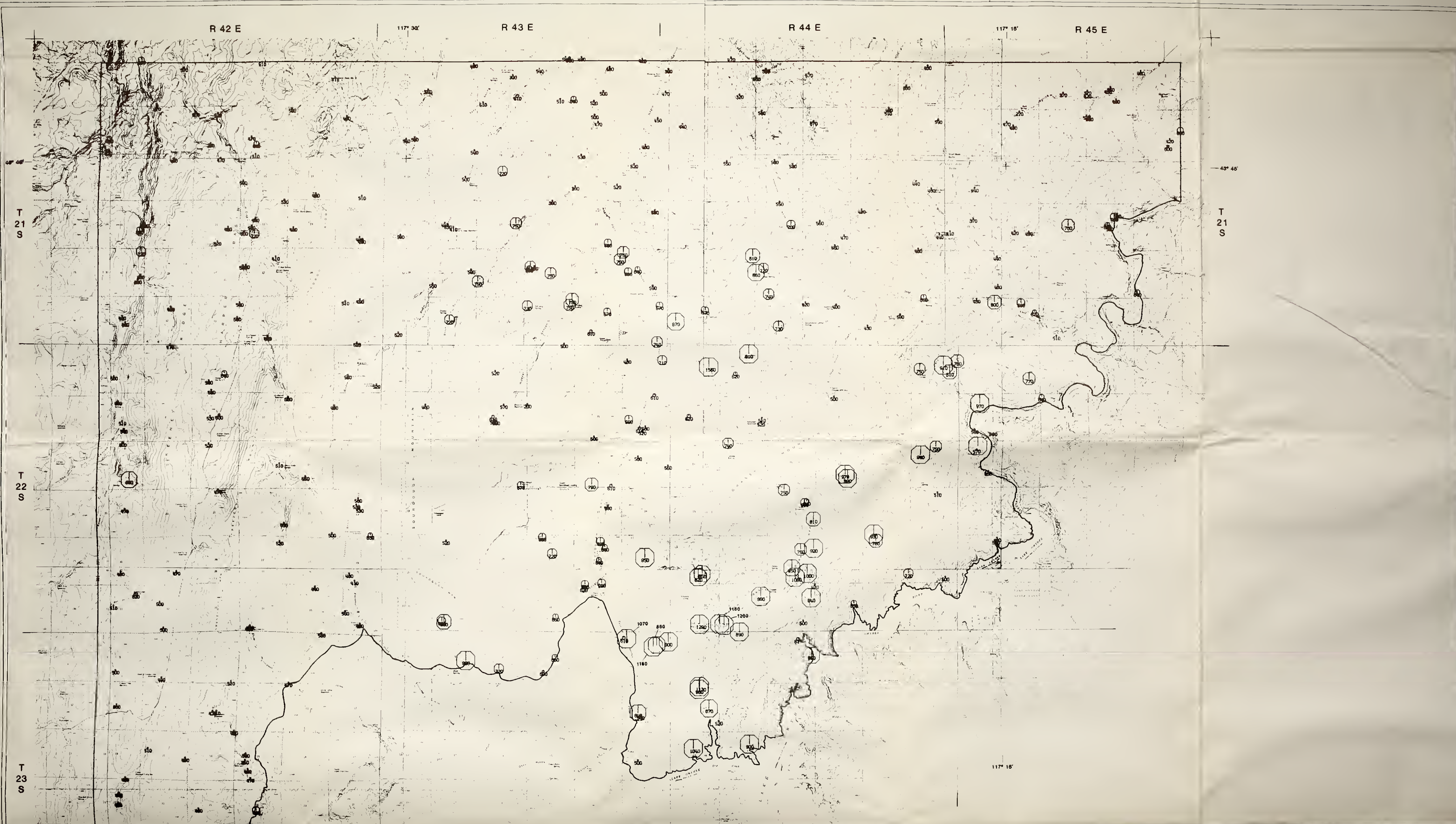
T 21 S

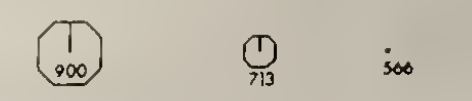
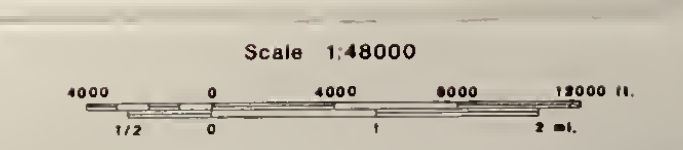
T 22 S

T 23 S

43° 45'

117° 15'





ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .15 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 — Survey boundary



BARIUM
 Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-VI

SERVICES FOR THE EARTH SCIENCES

R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

43° 45'

43° 45'

T 21 S

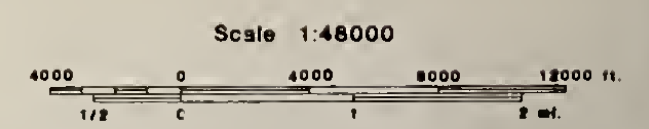
T 21 S

T 22 S

T 23 S

117° 15'





ONLY VALUES GREATER THAN DETECTION LIMIT PLOTTED
VALUES POSTED IN PPM

— Survey boundary



BERYLLIUM

Area B

DATA FOR:
BUR. OF LAND MANAGEMENT
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-XXXIV

SERVICES FOR THE EARTH SCIENCES



R 37 E

R 38 E

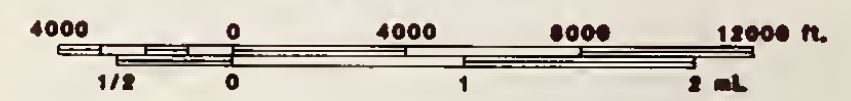
118° 00'

T 17 S

118° 00'



Scale 1:48000



27

ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPW.
 --- WSA 3-27 Survey boundary



COPPER Area A

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-IX

SERVICES FOR THE EARTH SCIENCES



R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

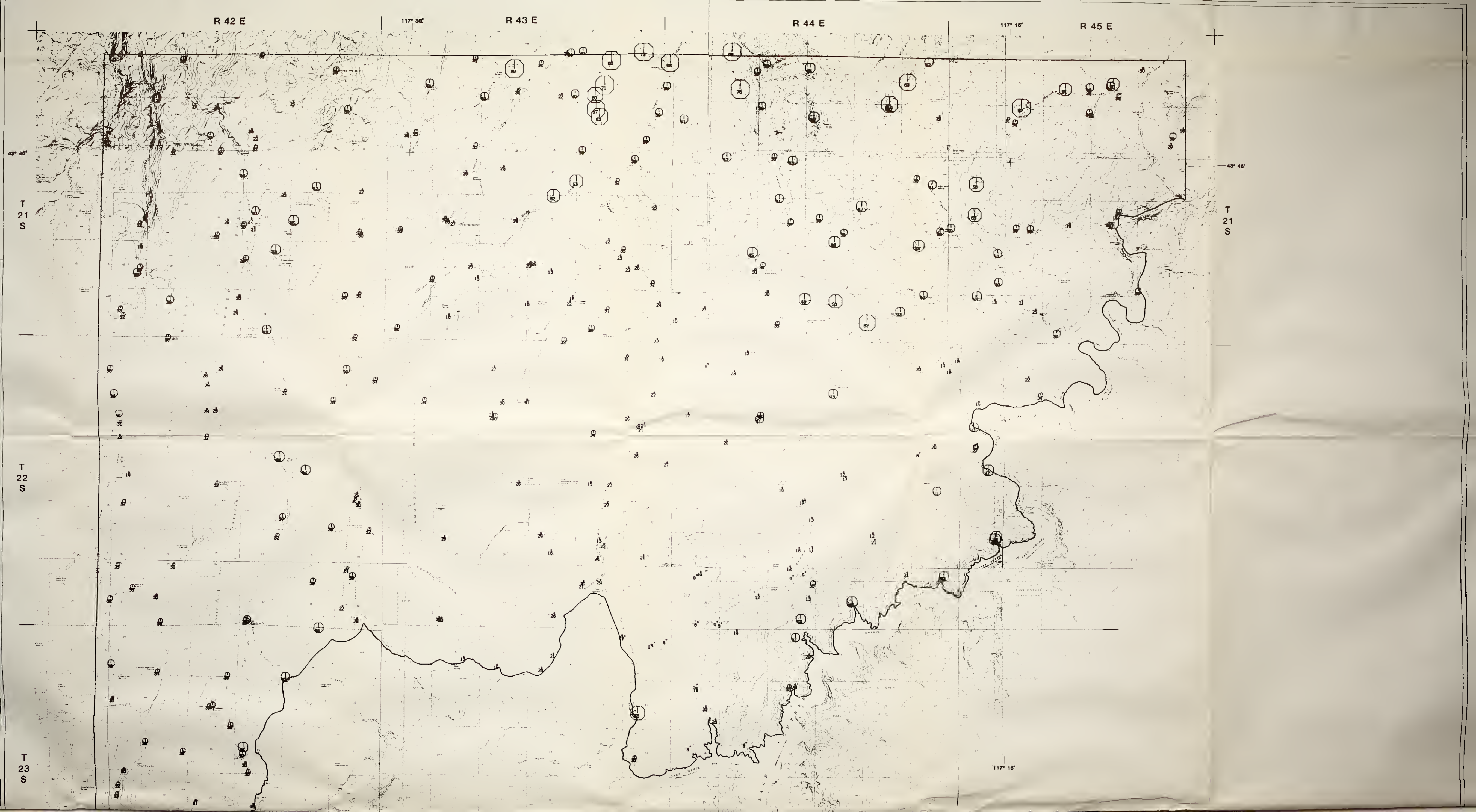
T 21 S

T 21 S

T 22 S

T 23 S

117° 15'





T 23 S

T 24 S

T 25 S

R 42 E

R 43 E

117° 15'

43° 30'

T 24 S

T 25 S

117° 30'

Scale 1:48000



70

43

27

ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 — Survey boundary



COPPER
 Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-X

SERVICES FOR THE EARTH SCIENCES



R 37 E

R 38 E

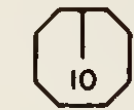
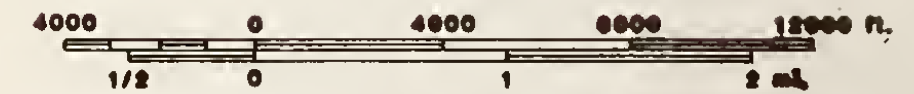
118° 00'

T
17
S

118° 00'



Scale 1:48000



ALL DATA LOG(10) TRANSFORMED
MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
PLOT AS DOTS. VALUES POSTED IN PPB.
WSA 3-27 Survey boundary



GOLD Area A

DATA FOR:
BUR. OF LAND MANAGEMENT
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-1

SERVICES FOR THE EARTH SCIENCES



R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

43° 45'

T 21 S

43° 45'

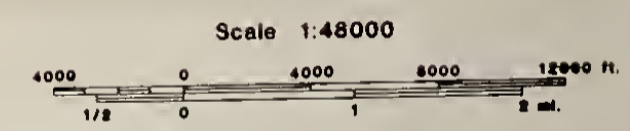
T 21 S

T 22 S

T 23 S

117° 15'





<p>ALL DATA LOC(10) TRANSFORMED MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN PLOT AS DOTS. VALUES POSTED IN PPS. — Survey boundary</p>
<p>GOLD Area B</p>
<p>DATA FOR: BUR. OF LAND MANAGEMENT NORTHERN MALHEUR RESOURCE AREA VALE DISTRICT, OREGON MAP SCALE = 1:48000</p>
<p>Plate A-II</p>
<p>SERVICES FOR THE EARTH SCIENCES</p>

R 42 E

117° 30'

R 43 E

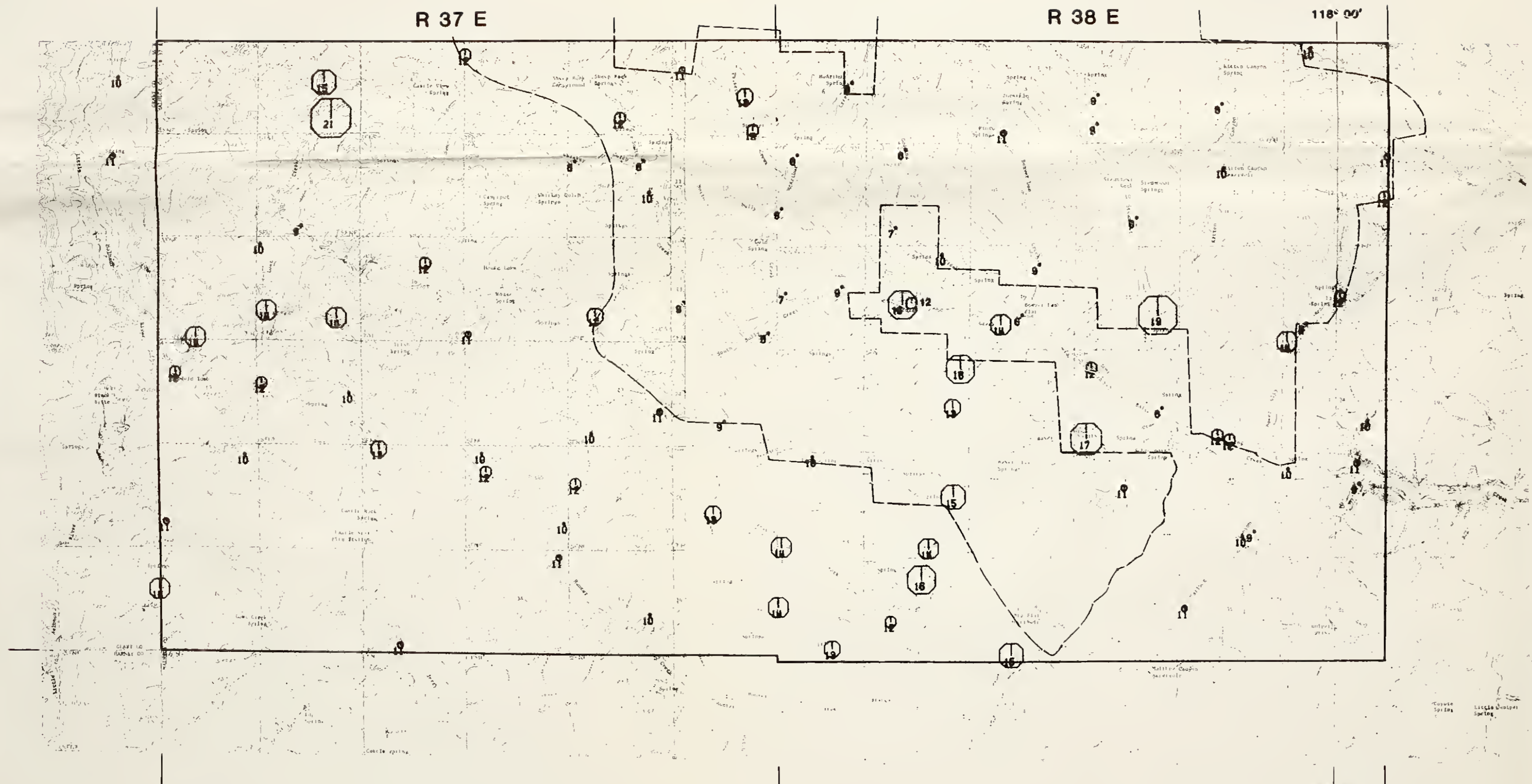
T 24 S

T 25 S

T 23 S

T 24 S

T 25 S



118° 00'



Scale 1:48000



20

14

10

ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 --- WSA 3-27 --- Survey boundary



LEAD Area A

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-**XV**

SERVICES FOR THE EARTH SCIENCES

R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

+

T 21 S

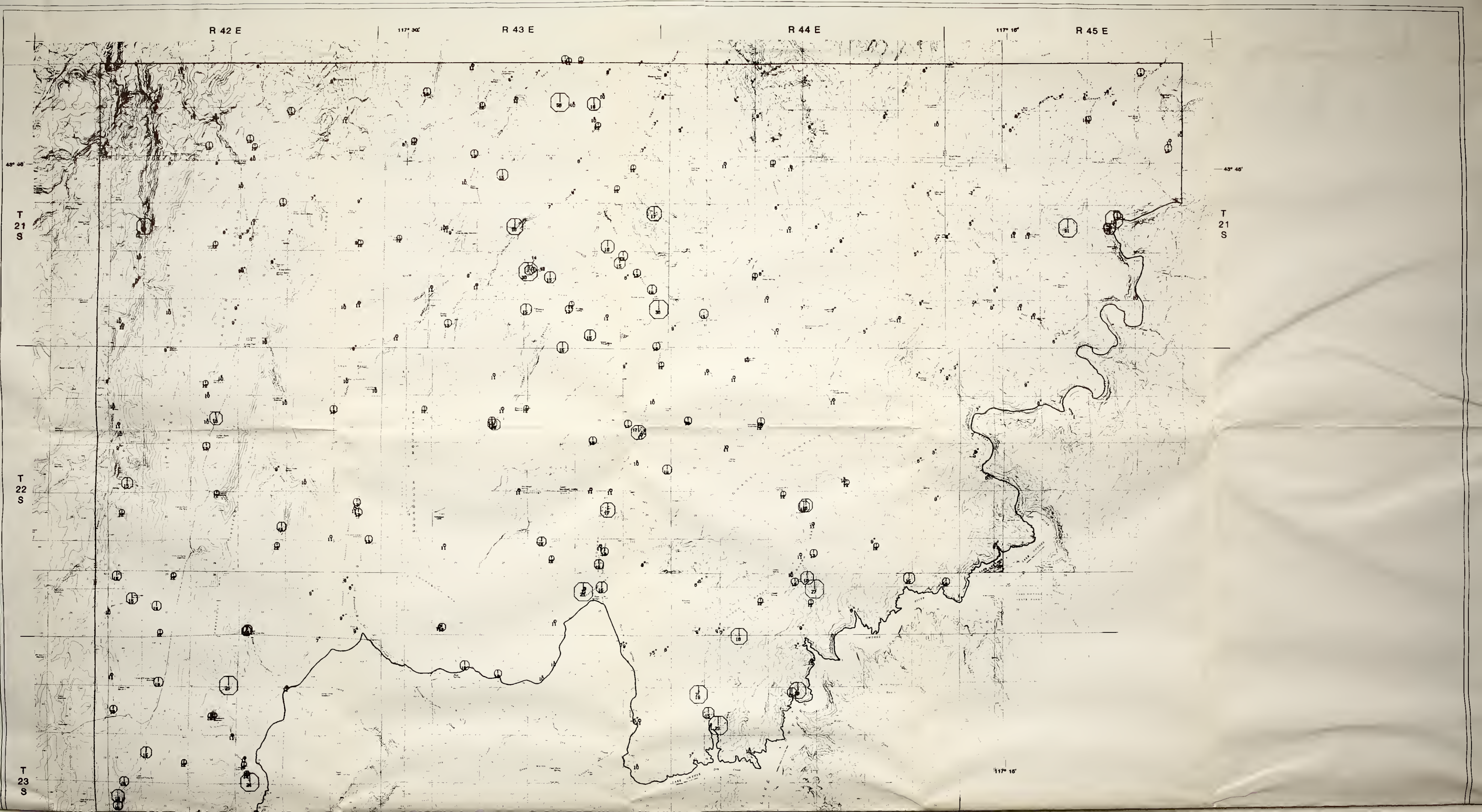
+

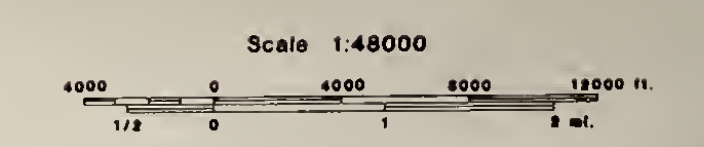
45° 45'

T 22 S

T 23 S

117° 15'





ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 — Survey boundary

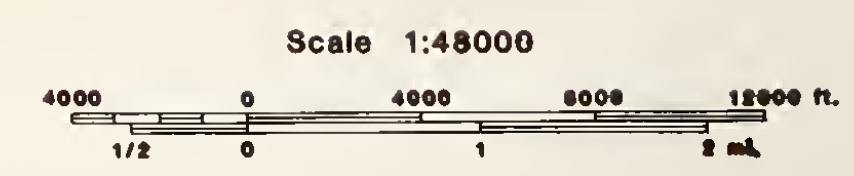
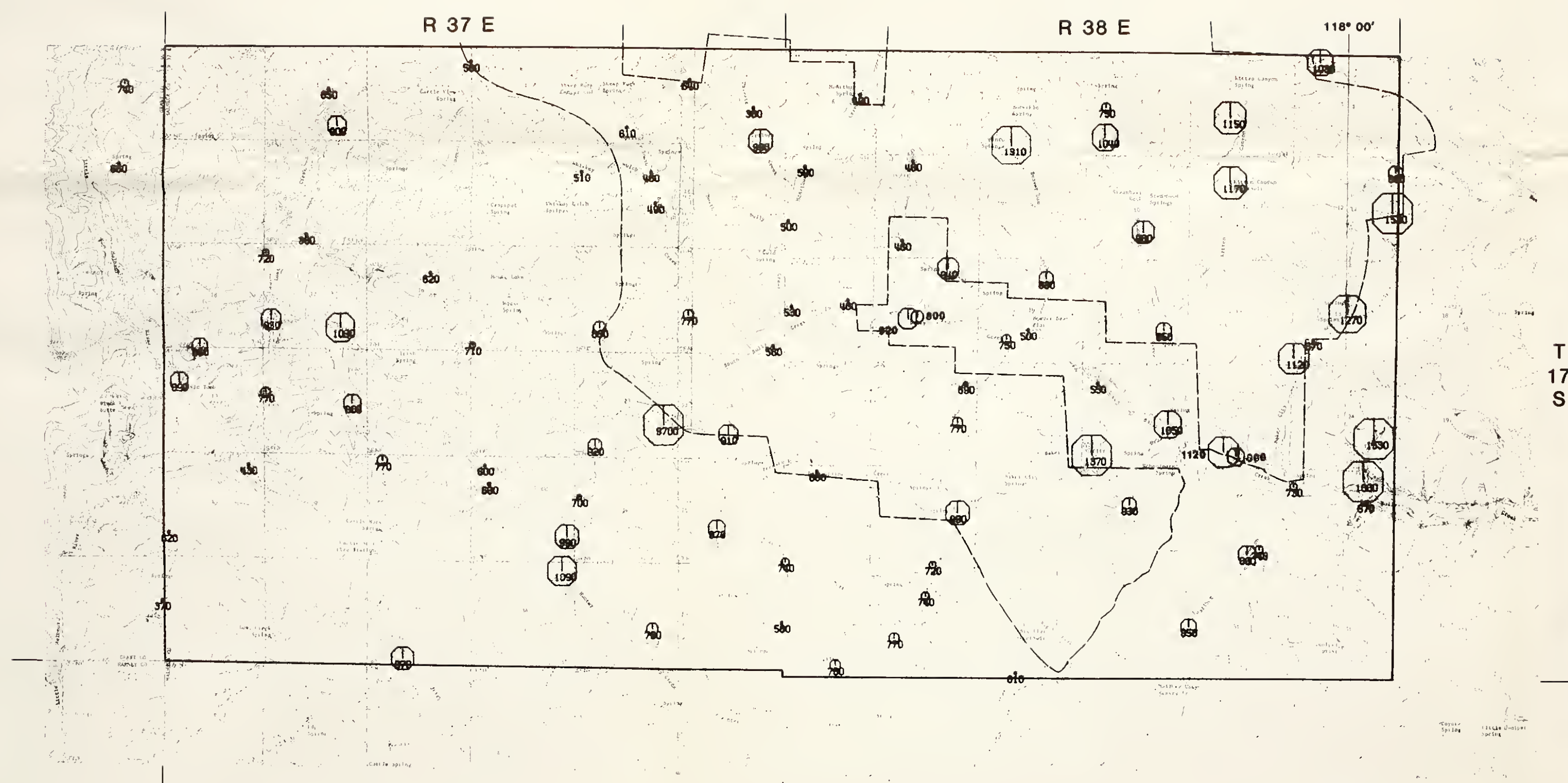


LEAD
Area B

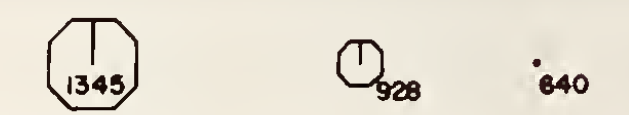
DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-XVI

SERVICES FOR THE EARTH SCIENCES



T
17
S



ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 WSA 3-27 Survey boundary



MANGANESE Area A

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-XI

SERVICES FOR THE EARTH SCIENCES



118° 00'

R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

43° 45'

43° 45'

T 21 S

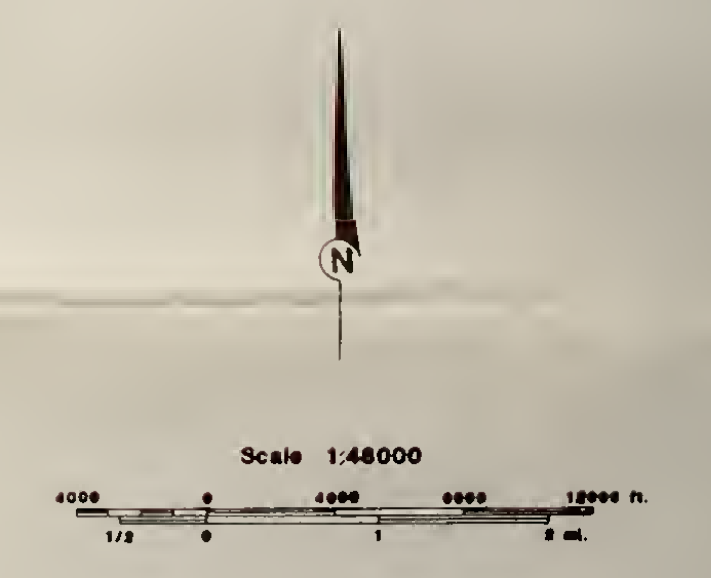
T 21 S

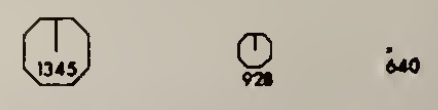
T 22 S

T 23 S

117° 15'







 ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 — Survey boundary

BARRINGER RESOURCES

MANGANESE
Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-XII

SERVICES FOR THE EARTH SCIENCES



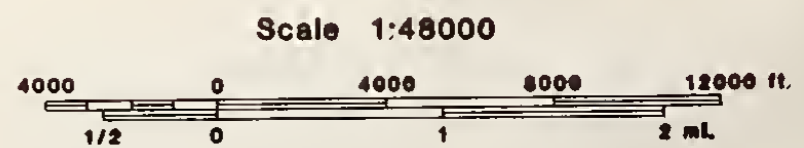
R 37 E

R 38 E

118° 00'

T 17 S

118° 00'



ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PP8.
 WSA 3-27 Survey boundary



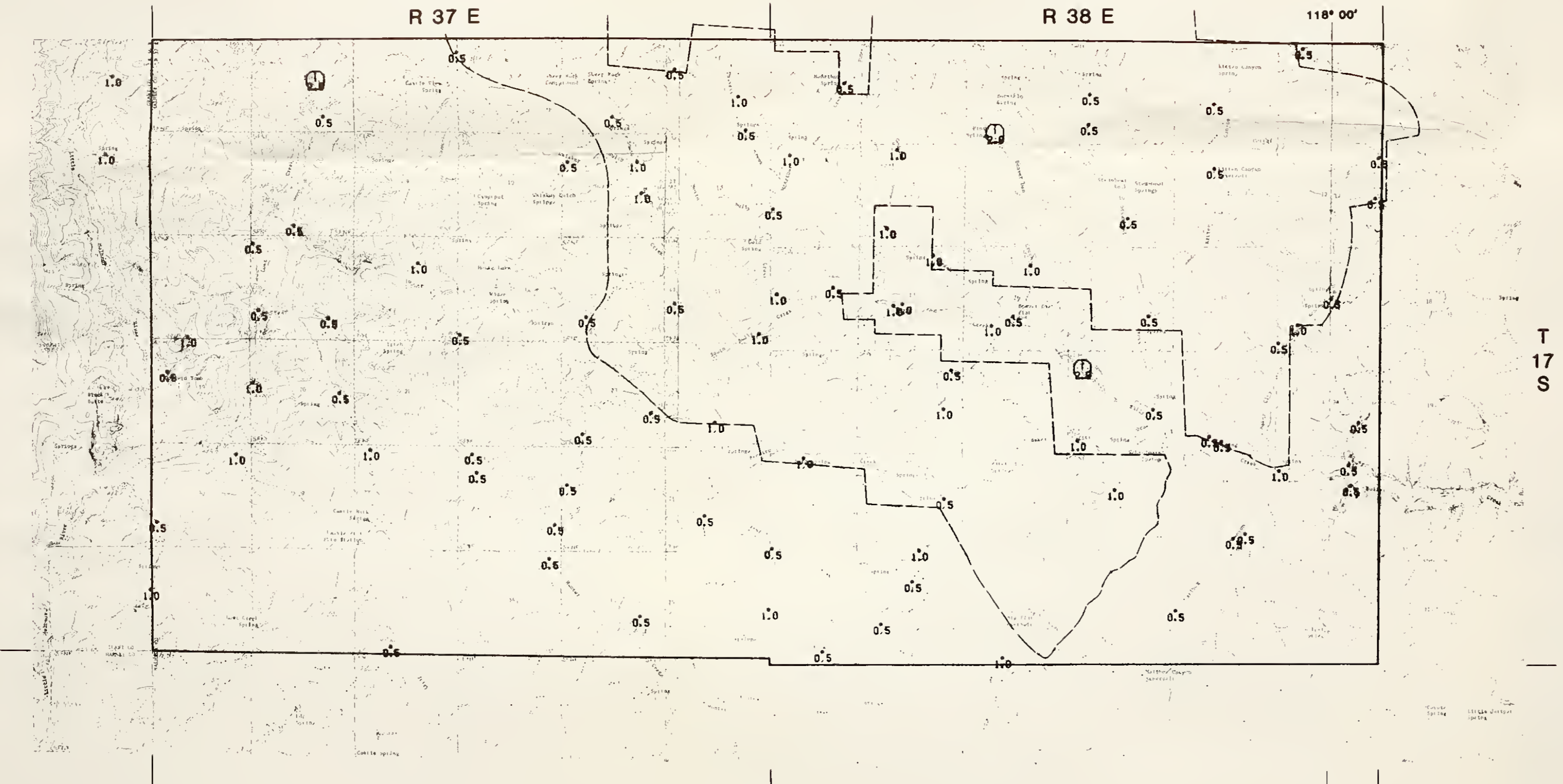
MERCURY

Area A

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-VII

SERVICES FOR THE EARTH SCIENCES



R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

43° 45'

T 21 S

43° 45'

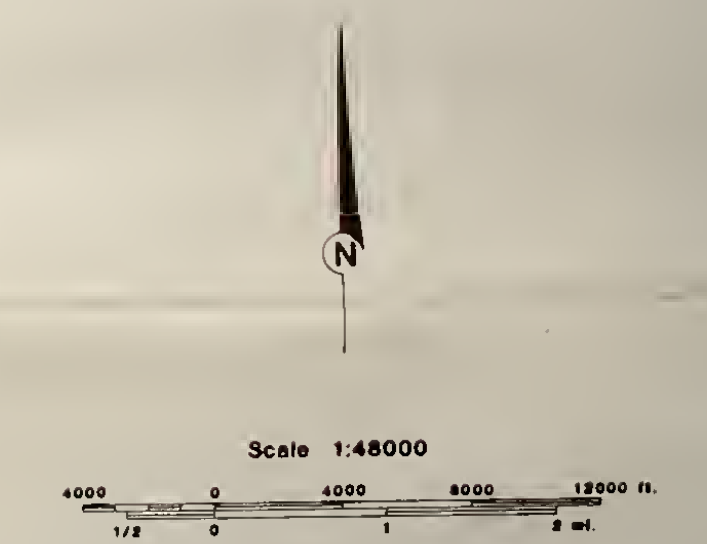
T 21 S

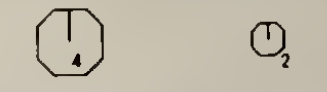
T 22 S

T 23 S


117° 15'







ALL DATA LOC(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPS.
 — Survey boundary

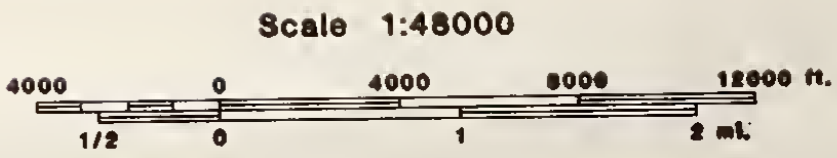


MERCURY
 Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

SERVICES FOR THE EARTH SCIENCES

Plate A-VIII



T
17
S

ONLY VALUES GREATER THAN DETECTION LIMIT PLOTTED.
VALUES POSTED IN PPM.

--- WSA 3-27 — Survey boundary



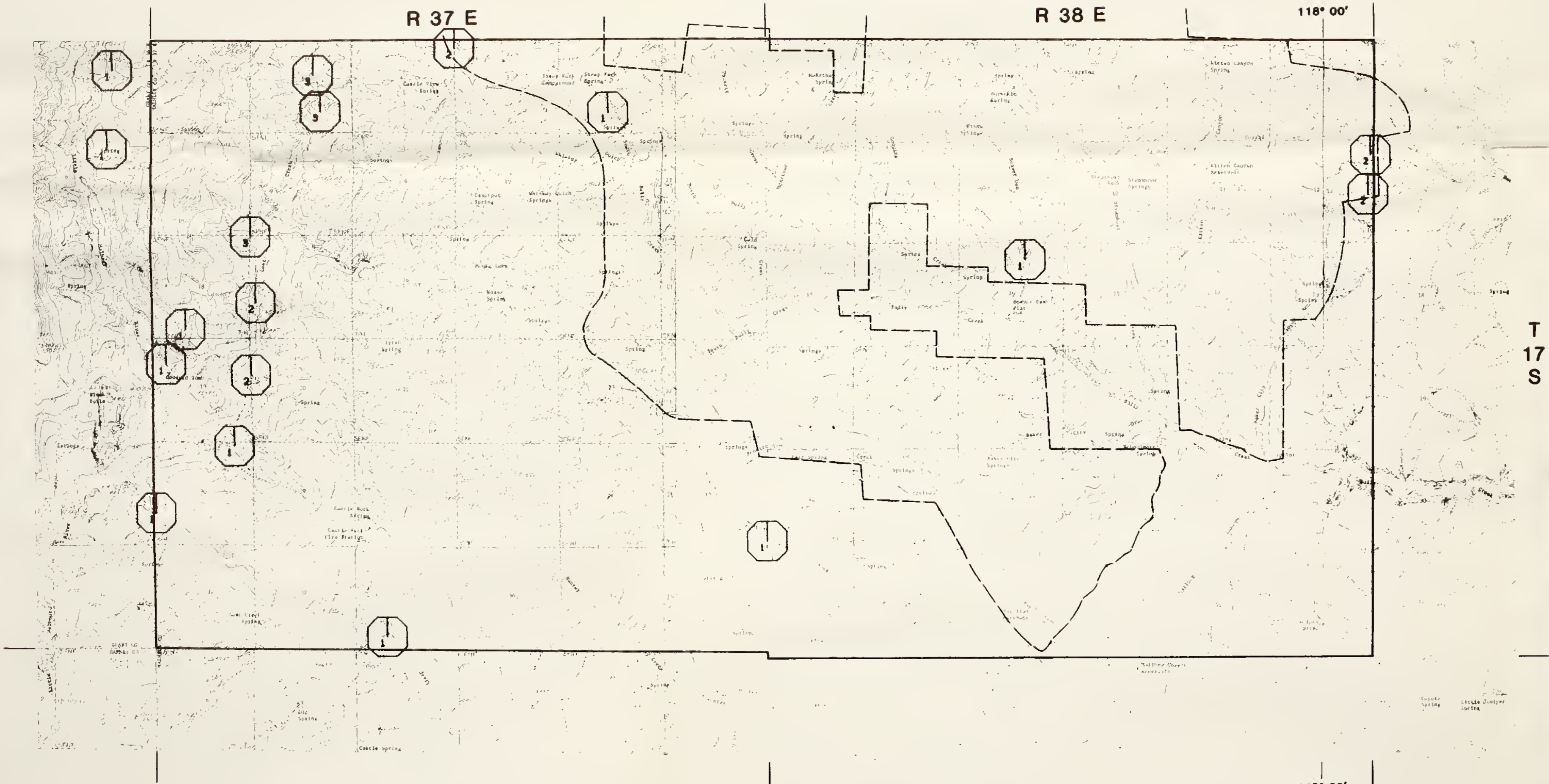
MOLYBDENUM

Area A

DATA FOR:
BUR. OF LAND MANAGEMENT
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-**XIII**

SERVICES FOR THE EARTH SCIENCES



R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

43° 45'

T 21 S

43° 45'

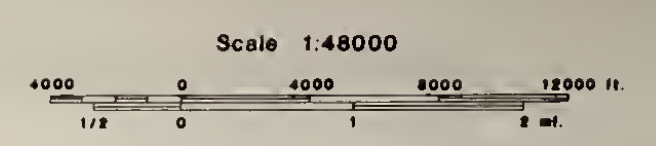
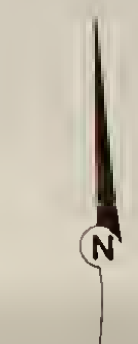
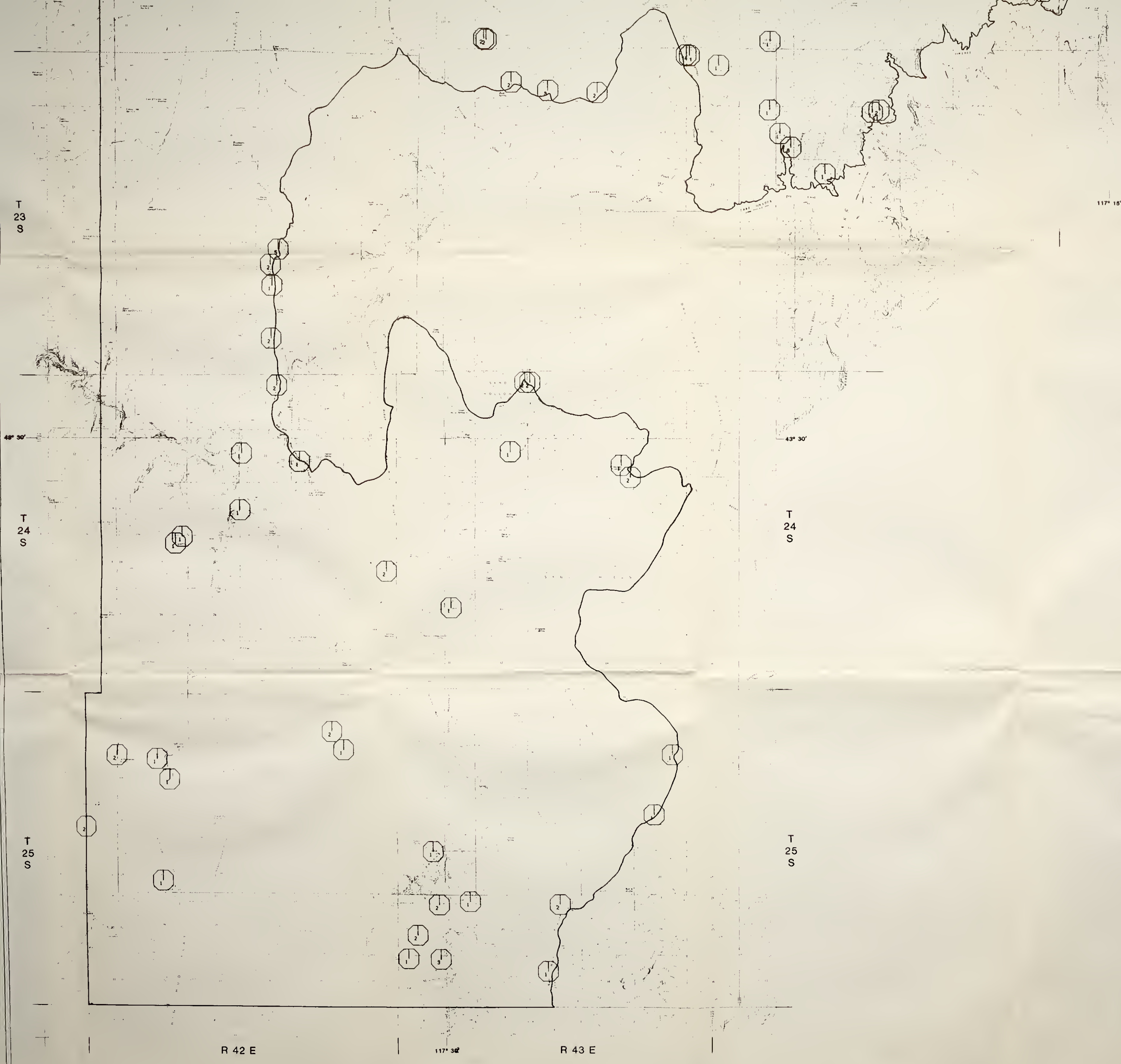
T 21 S

T 22 S

T 23 S

117° 15'





ONLY VALUES GREATER THAN DETECTION LIMIT ARE PLOTTED.
VALUES POSTED IN PPM.

— Survey boundary



MOLYBDENUM
Area B

DATA FOR:
BUR. OF LAND MANAGEMENT
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-XIV

SERVICES FOR THE EARTH SCIENCES

R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E



43° 45'

43° 45'

T 21 S

T 21 S

T 22 S

T 23 S

117° 15'

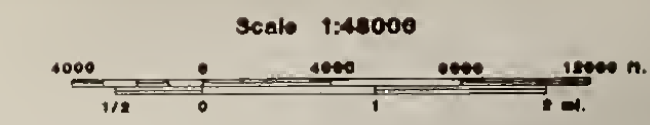
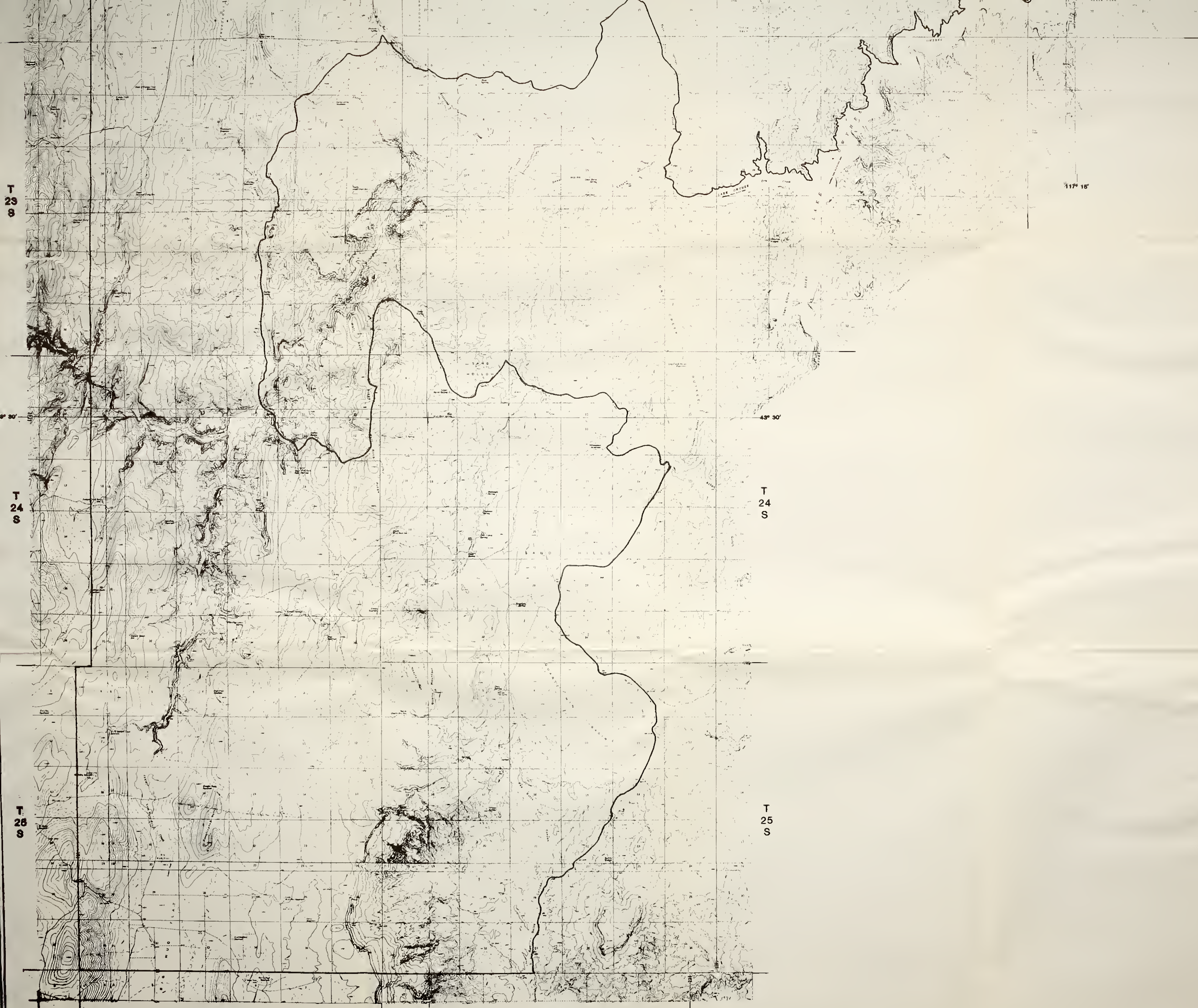


STICKNEY RIDGE

SOURCEVILLE MOUNTAIN

LAKE OVERSEA

LAKE OVERSEA



ONLY VALUES GREATER THAN DETECTION LIMIT PLOTTED.
VALUES POSTED IN PPM.

— Survey boundary



SILVER Area B

DATA FOR:
BUR. OF LAND RESOURCE
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-XXIII

SERVICES FOR THE EARTH SCIENCES



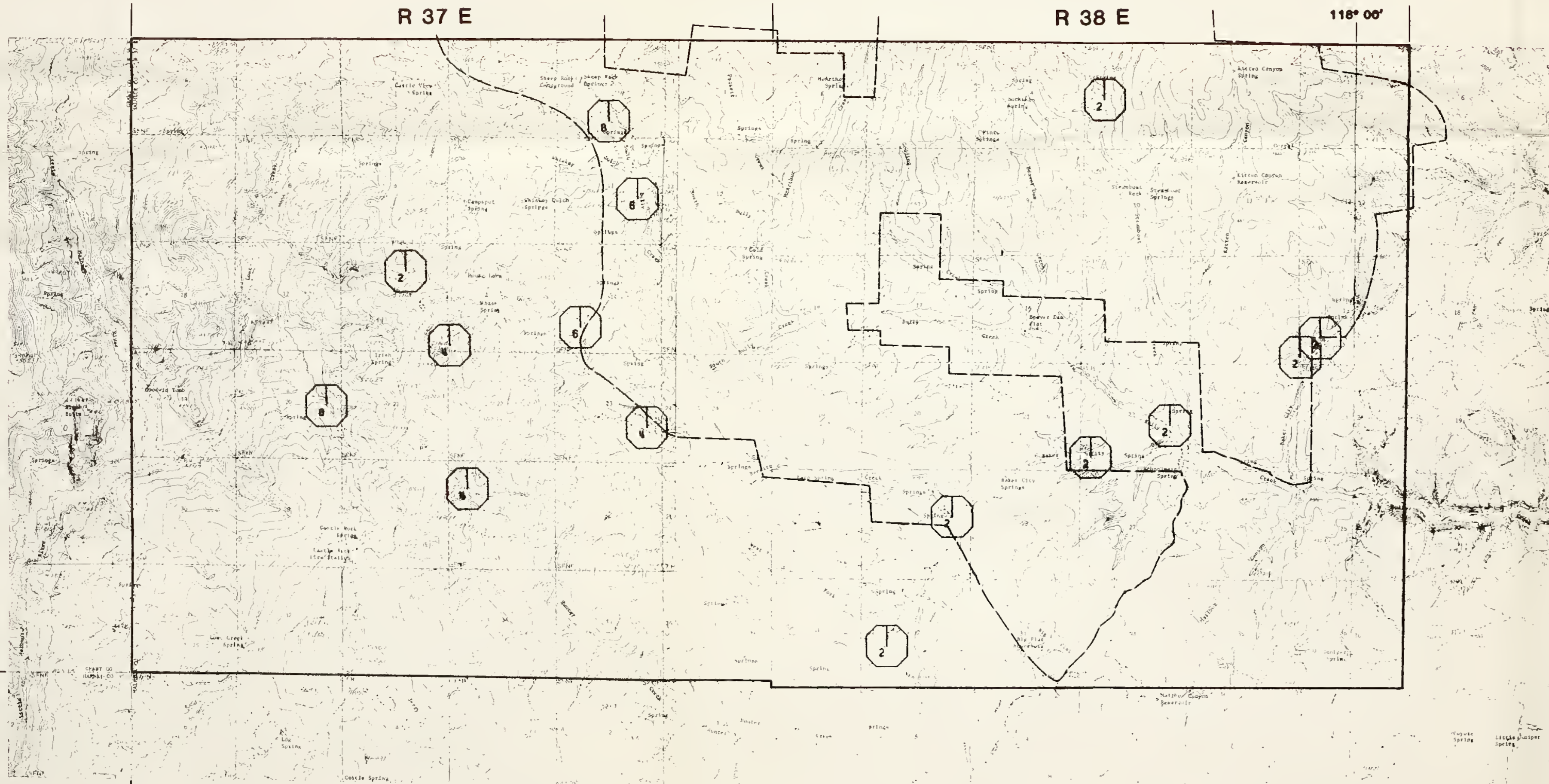
R 37 E

R 38 E

118° 00'

T
17
S

118° 00'



Scale 1:48000



ONLY VALUES GREATER THAN DETECTION LIMIT PLOTTED.
VALUES POSTED IN PPM.

WSA 3-27

Survey boundary



TIN Area A

DATA FOR:
BUR. OF LAND MANAGEMENT
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-**XIX**

SERVICES FOR THE EARTH SCIENCES



R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

43° 45'

43° 45'

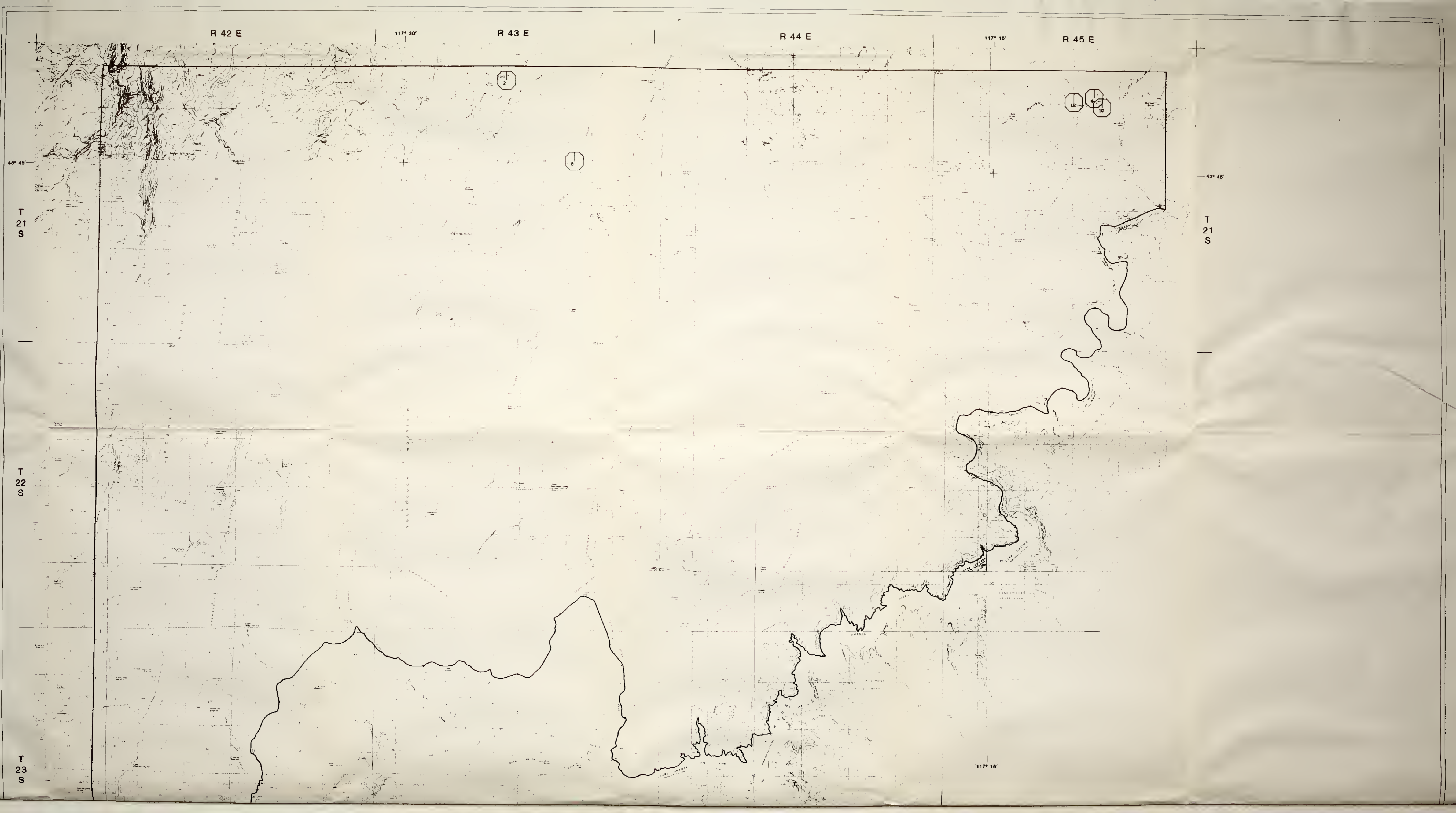
T
21
S

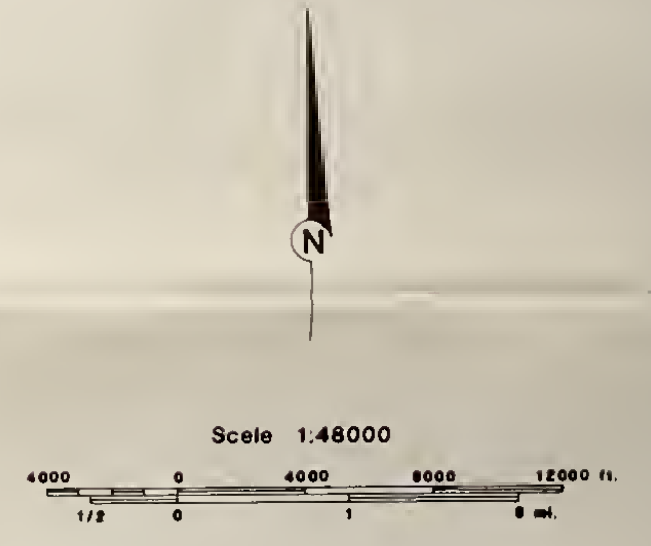
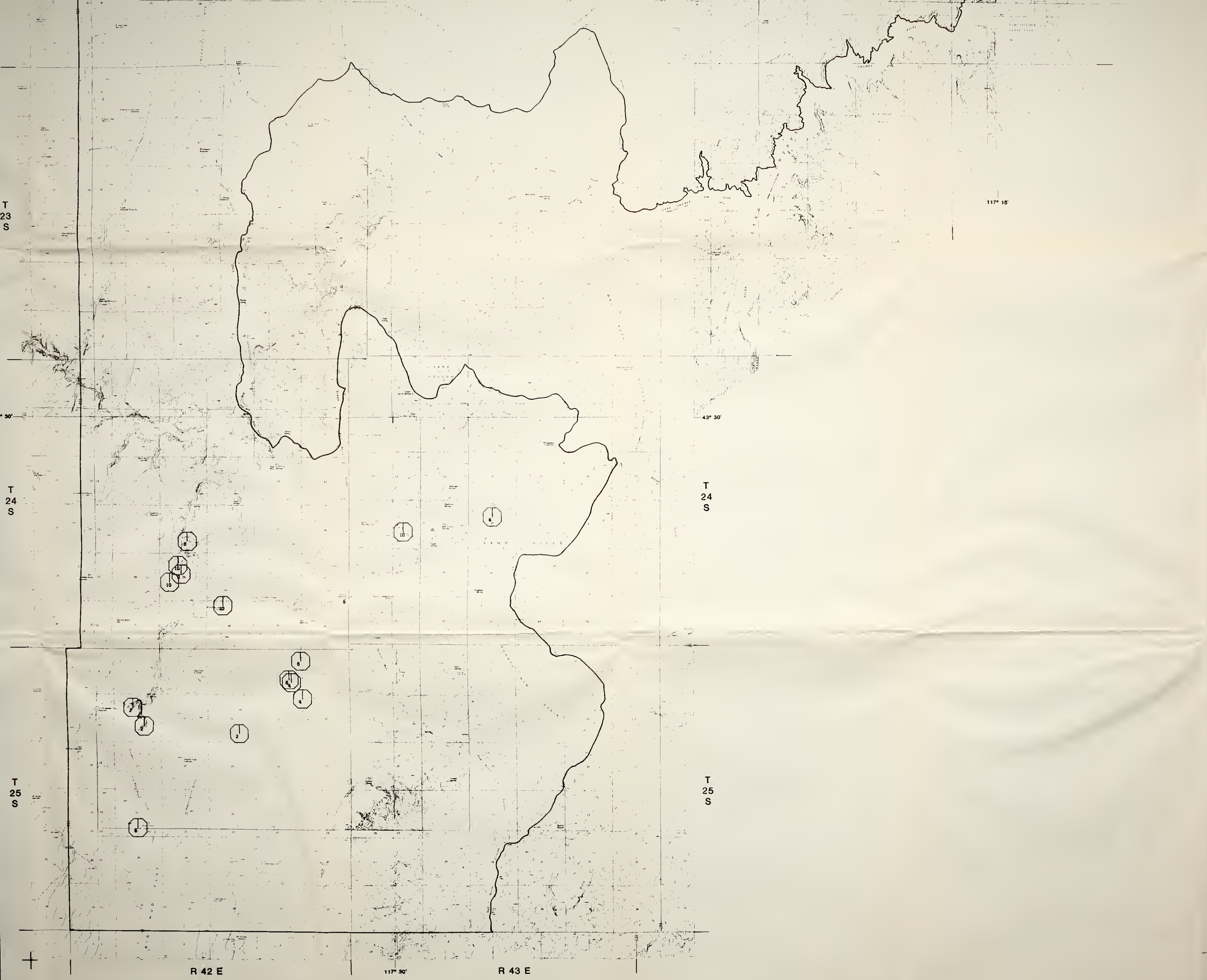
T
21
S

T
22
S

T
23
S

117° 15'





ONLY VALUES GREATER THAN DETECTION LIMIT ARE PLOTTED.
VALUES POSTED IN PPM.

— Survey boundary

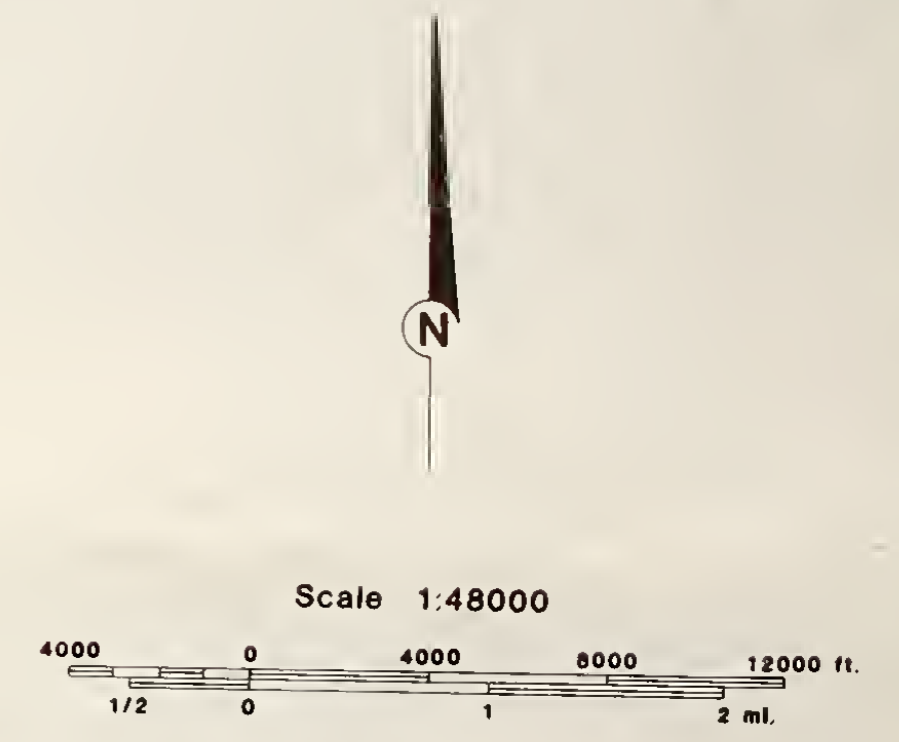
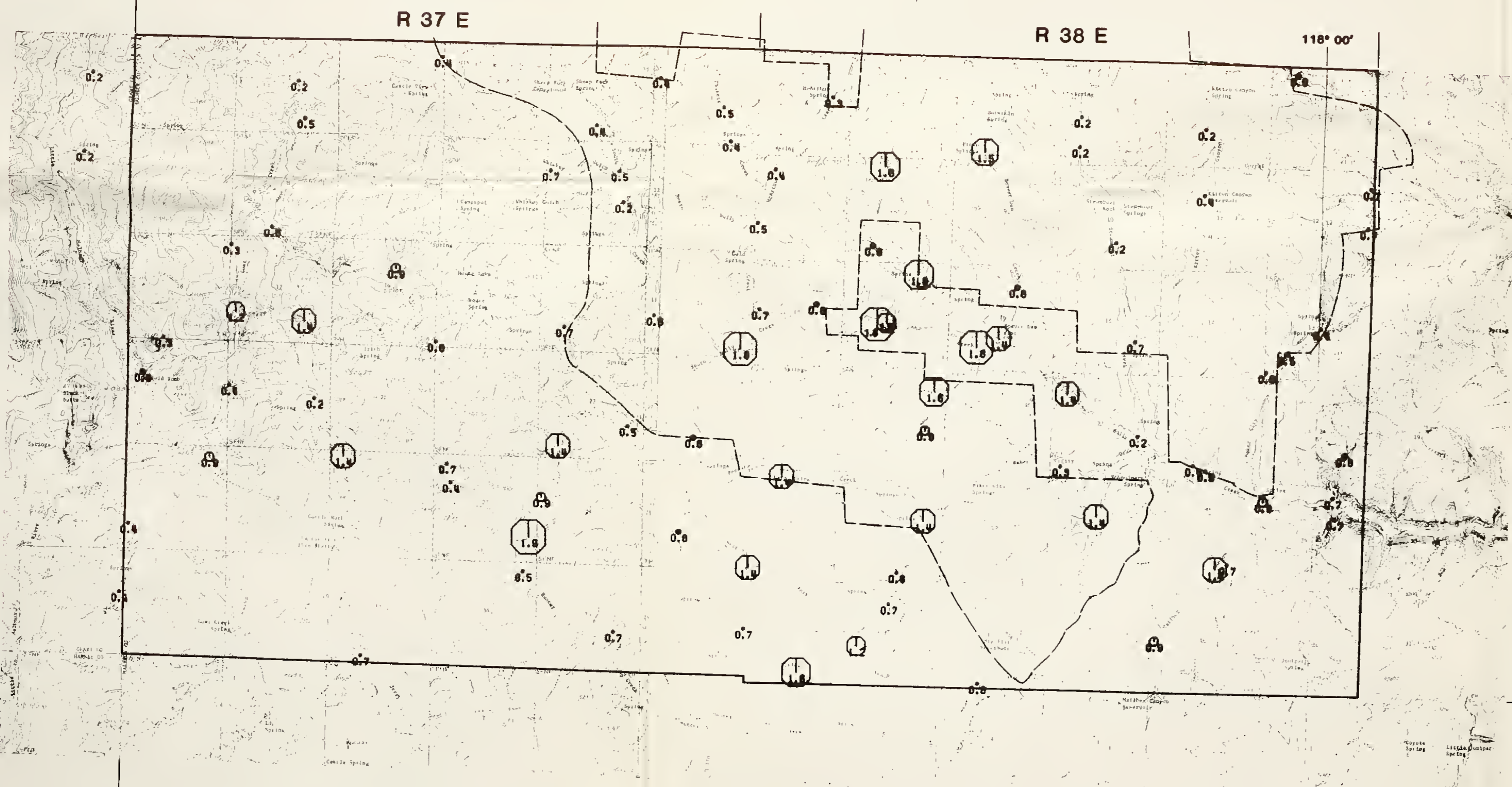


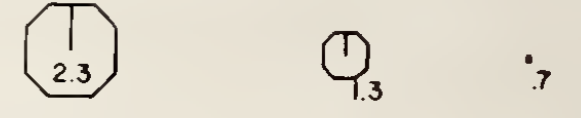
TIN
Area B

DATA FOR:
BUR. OF LAND MANAGEMENT
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-XX

SERVICES FOR THE EARTH SCIENCES





ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 WSA 3-27 Survey boundary



URANIUM

Area A

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-XXI

SERVICES FOR THE EARTH SCIENCES

R 42 E

117° 30'

R 43 E

R 44 E

117° 10'

R 45 E



T 21 S

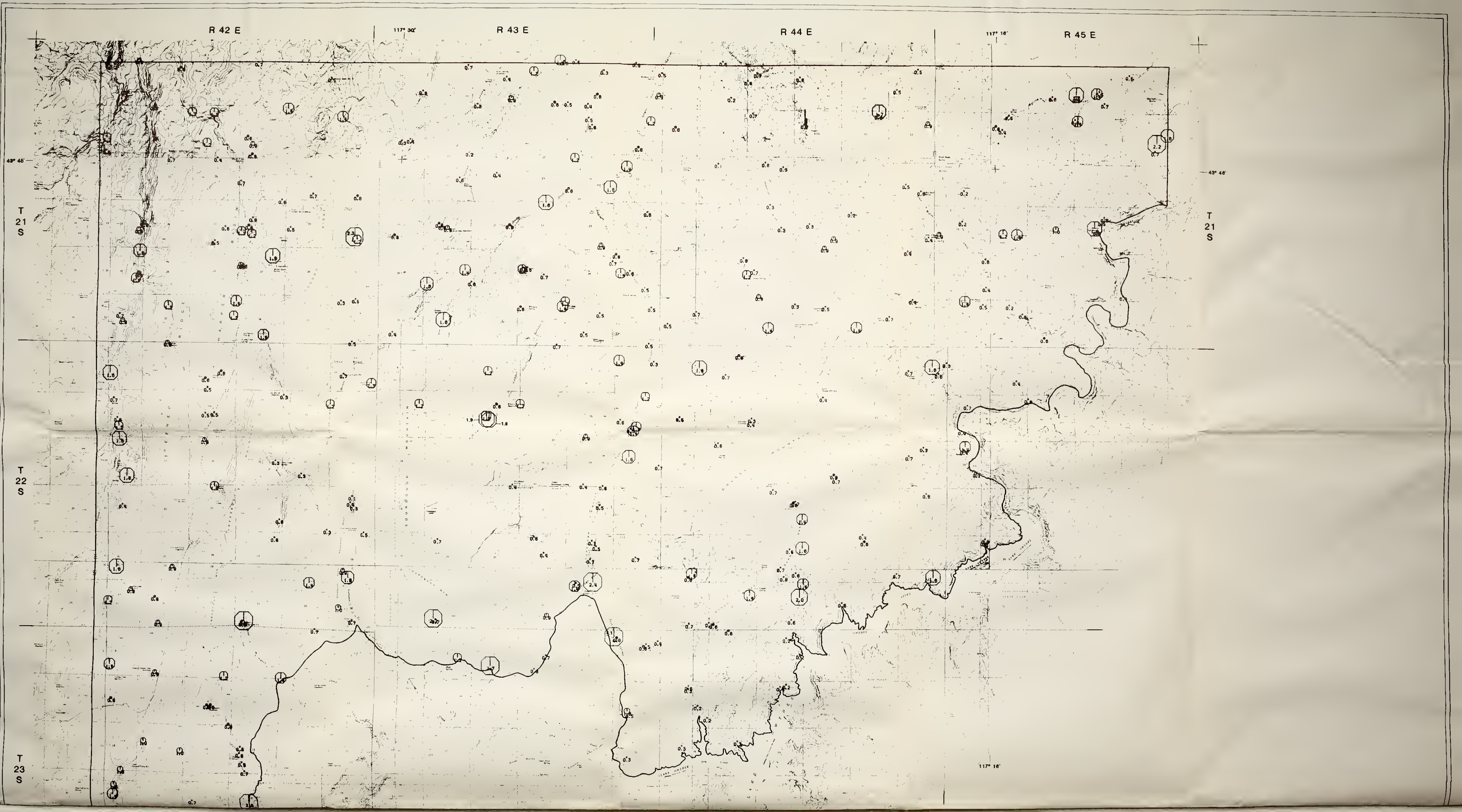
43° 40'

T 21 S

T 22 S

T 23 S

117° 10'





117° 16'

43° 30'

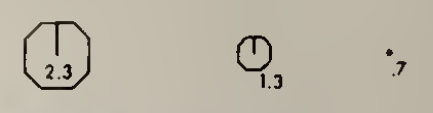
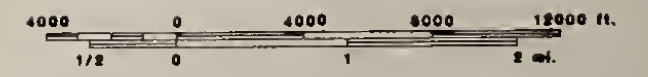
R 42 E

117° 30'

R 43 E



Scale 1:48000



ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 — Survey boundary

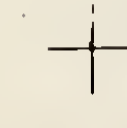
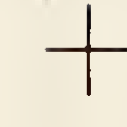


URANIUM
 Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-XXXII

SERVICES FOR THE EARTH SCIENCES



R 37 E

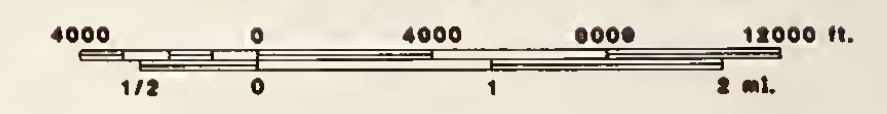
R 38 E

118° 00'

118° 00'

N

Scale 1:48000



T
17
S



71

ALL DATA LOG(10) TRANSFORMED
MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
PLOT AS DOTS. VALUES POSTED IN PPM.
WSA 3-27 Survey boundary

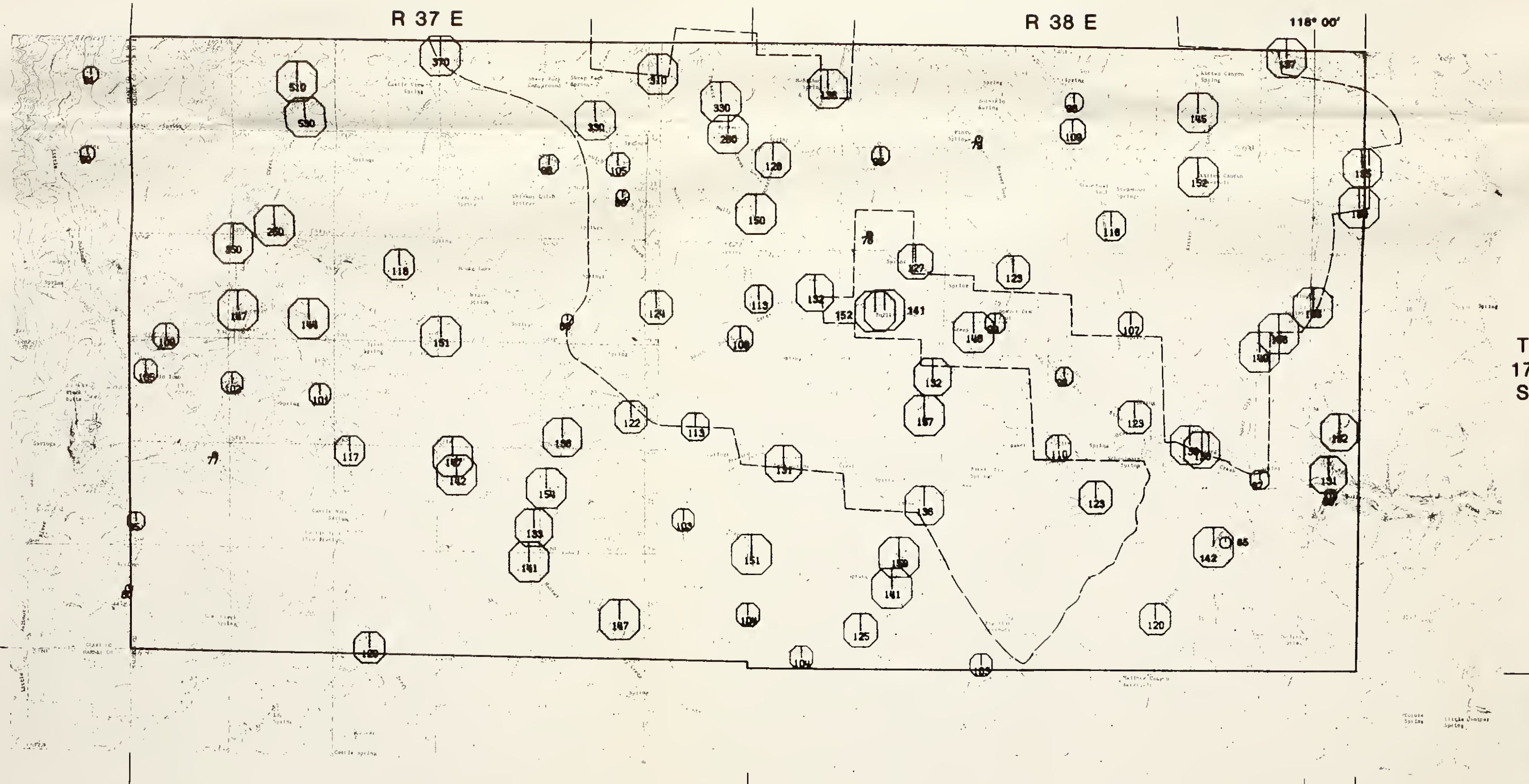


ZINC Area A

DATA FOR:
BUR. OF LAND MANAGEMENT
NORTHERN MALHEUR RESOURCE AREA
VALE DISTRICT, OREGON
MAP SCALE = 1:48000

Plate A-XVII

SERVICES FOR THE EARTH SCIENCES



R 42 E

117° 30'

R 43 E

R 44 E

117° 15'

R 45 E

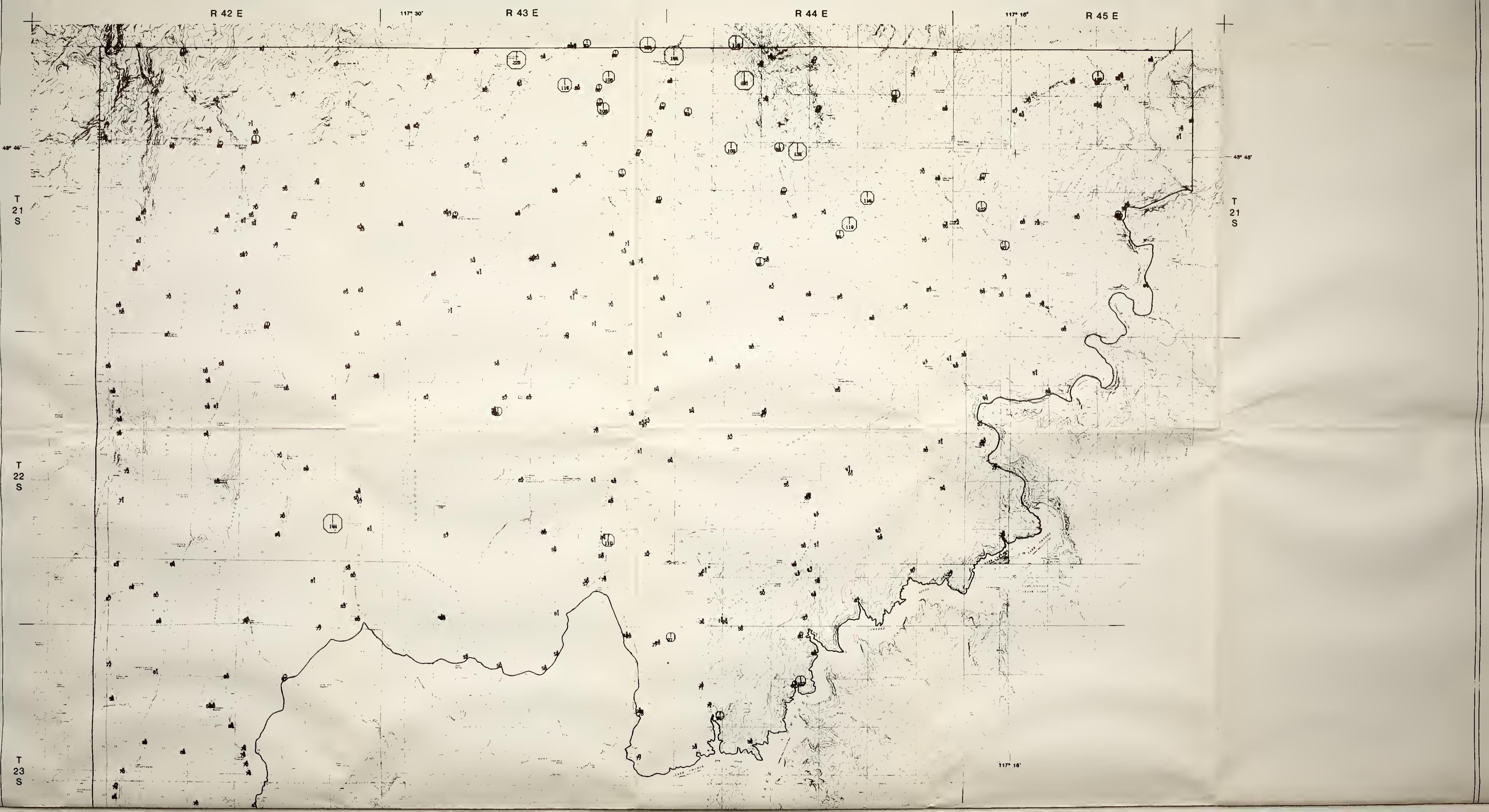
T 21 S

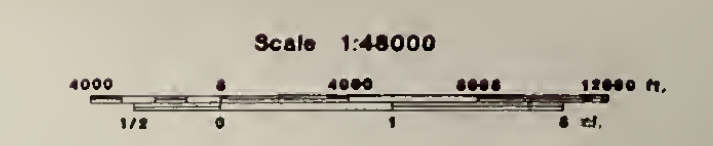
T 21 S

T 22 S

T 23 S

117° 15'





ALL DATA LOG(10) TRANSFORMED
 MAXIMUM SYMBOL SIZE OF .5 INCHES REPRESENTS A
 VALUE GREATER THAN OR EQUAL TO 2 STANDARD DEVIATIONS
 ABOVE THE MEAN. VALUES LESS THAN OR EQUAL TO THE MEAN
 PLOT AS DOTS. VALUES POSTED IN PPM.
 — Survey boundary



ZINC
 Area B

DATA FOR:
 BUR. OF LAND MANAGEMENT
 NORTHERN MALHEUR RESOURCE AREA
 VALE DISTRICT, OREGON
 MAP SCALE = 1:48000

Plate A-XVII

SERVICES FOR THE EARTH SCIENCES

88055 7/6

ER'S CARD

Vol. 2 (Maps)

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(Continued on reverse)