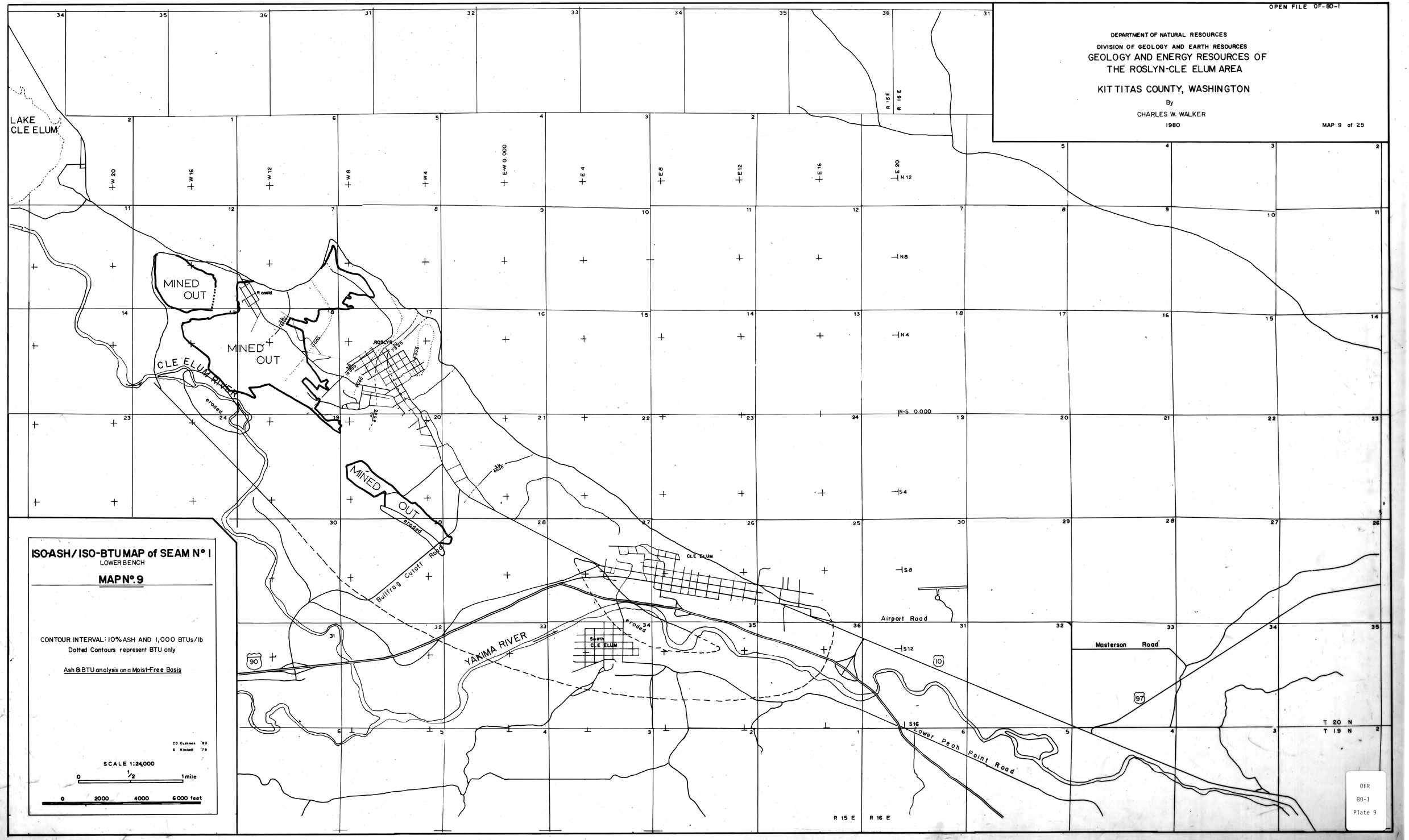
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DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGY AND EARTH RESOURCES
GEOLOGY AND ENERGY RESOURCES OF
THE ROSLYN-CLE ELUM AREA
KITTITAS COUNTY, WASHINGTON
By
CHARLES W. WALKER
1980
MAP 9 of 25
ISO-ASH/ISO-BTU MAP of SEAM N° 1
LOWER BENCH
MAP N°. 9
CONTOUR INTERVAL: 10% ASH AND 1,000 BTUs/lb
Dotted Contours represent BTU only
Ash & BTU analysis on a Moist-Free Basis
CD Cushman '80
S Kimball '79
SCALE 1:24,000
0 1/2 1 mile
0 2000 4000 6000 feet
LAKE CLE ELUM
MINED OUT
MINED OUT
MINED OUT
CLE ELUM RIVER
eroded
ROSLYN
Ronald
Bullfrog Cutoff Road
CLE ELUM
South CLE ELUM
YAKIMA RIVER
Airport Road
Masterson Road
Lower Peoh Point Road
T 20 N
T 19 N
R 15 E
R 16 E
W 20
W 16
W 12
W 8
W 4
E-W 0.000
E 4
E 8
E 12
E 16
E 20
N 12
N 8
N 4
N-S 0.000
S 4
S 8
S 12
S 16
90
10
97
OFR
80-1
Plate 9

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GEOLOGY AND ENERGY RESOURCES OF THE ROSLYN-CLE ELUM AREA

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MAP 10 of 25

ISO-DIPMAP ABOVE N°.1 SEAM

MAP N° 10

CONTOUR INTERVAL EQUALS 10°

Dips above 50° not shown

Less than 10° dip

10° to 20° dip

Greater than 20° Dip

CU Cushman '80
S Kimball '79

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

LAKE CLE ELUM

ROSLYN

CLE ELUM RIVER

Bullfrog Cutoff Road

YAKIMA RIVER

CLE ELUM

South CLE ELUM

Airport Road

Masterson Road

Lower Peoh Point Road

R 15 E R 16 E

OFR 80-1 Plate 10

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MAP 11 of 25

LAKE CLE ELUM

CLE ELUM RIVER

eroded

ROSLYN

eroded

Bullfrog Cutoff Road

CLE ELUM

YAKIMA RIVER

eroded

South CLE ELUM

Airport Road

Masterson Road

Lower Peoh Point Road

R 15 E R 16 E

T 20 N
T 19 N

SAND-SHALE RATIO MAP ABOVE N°. I SEAM

MAP N°. II

Sand-shale ratio figured for 200ft. above N°.I seam

SAND/SHALE
CONTOUR INTERVAL EQUALS I.
(I.= 1/1, 2.= 2/1, etc.)

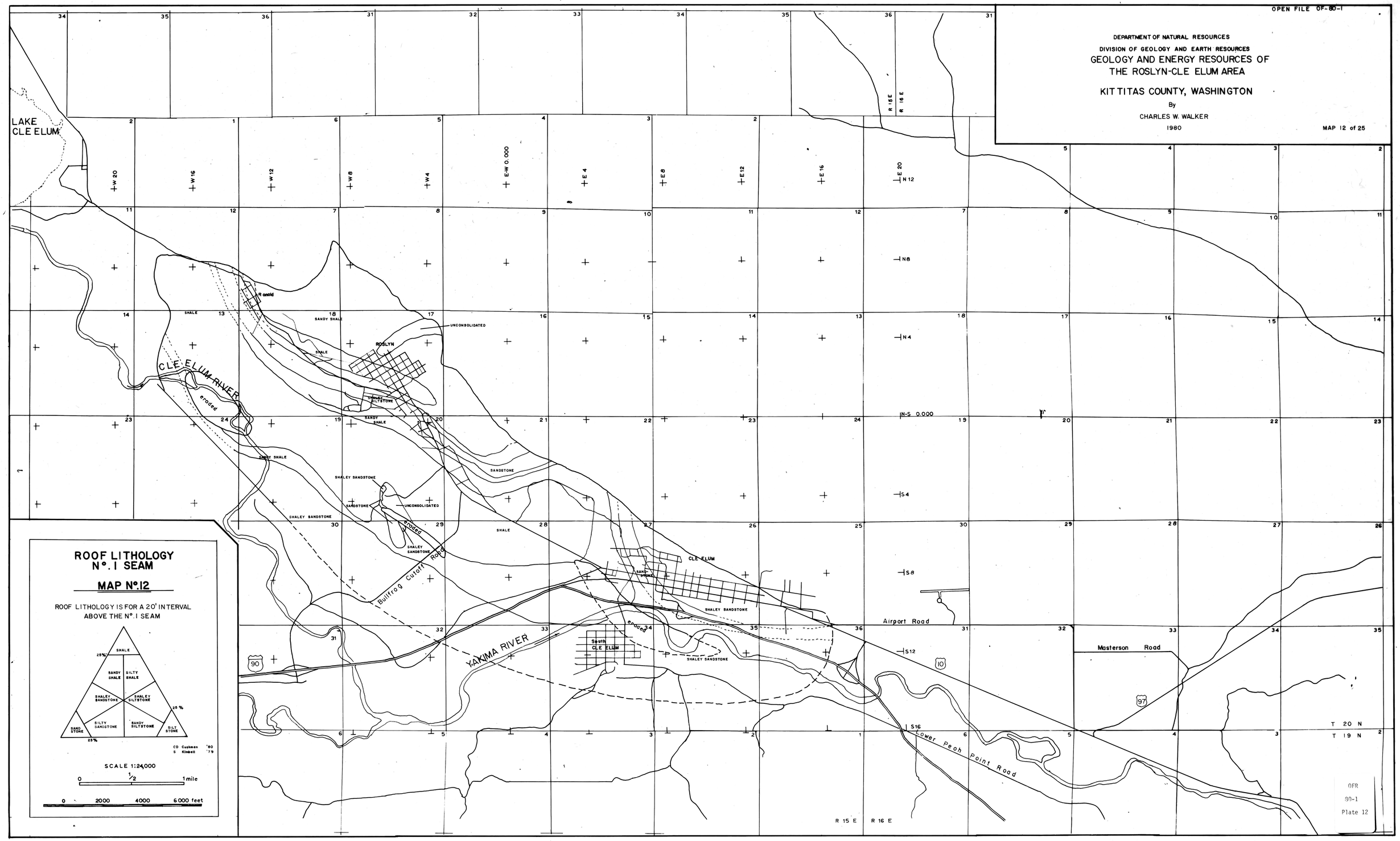
CD Cushman '80
S. Kimball '79

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

OFR
80-1
Plate 11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MAP 12 of 25
LAKE CLE ELUM
CLE ELUM RIVER
YAKIMA RIVER
ROSLYN
CLE ELUM
South CLE ELUM
Airport Road
Masterson Road
Lower Peoh Point Road
Bullfrog Cutoff Road
eroded
SHALE
SANDY SHALE
SHALEY SANDSTONE
SANDSTONE
UNCONSOLIDATED
SILTY SANDSTONE
SANDY SILTSTONE
SILT STONE
SAND STONE
SILTY SHALE
SHALEY SILTSTONE
R 15 E
R 16 E
T 20 N
T 19 N
ROOF LITHOLOGY
N°. 1 SEAM
MAP N°.12
ROOF LITHOLOGY IS FOR A 20' INTERVAL
ABOVE THE N°. 1 SEAM
25%
CD Cushman '80
S Kimball '79
SCALE 1:24,000
0 1/2 1 mile
0 2000 4000 6000 feet
OFR
80-1
Plate 12

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GEOLOGY AND ENERGY RESOURCES OF THE ROSLYN-CLE ELUM AREA

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MAP 13 of 25

LAKE CLE ELUM

R 15 E
R 16 E

W 20 | W 16 | W 12 | W 8 | W 4 | E-W 0.000 | E 4 | E 8 | E 12 | E 16 | E 20

N 12 | N 8 | N 4 | N-S 0.000 | S 4 | S 8 | S 12 | S 16

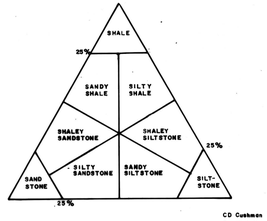
SANDY SHALE
SANDSTONE
ROSLYN SANDY SHALE
SHALE
CLE ELUM RIVER
eroded
SHALEY SANDSTONE
SILTSTONE
Bullfrog Cutoff Road
CLE ELUM
YAKIMA RIVER
South CLE ELUM
Airport Road
Masterson Road
Lower Peoh Point Road
90
10
97

T 20 N
T 19 N

FLOOR LITHOLOGY N°. 1 SEAM

MAP N°. 13

FLOOR LITHOLOGY IS FOR A 10' INTERVAL BELOW THE N°. 1 SEAM



CD Cushman '80
S Kimball '79

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

OFR
80-1
Plate 13

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MAP 14 of 25

LAKE CLE ELUM

MINED OUT

Ronald

ROSLYN

CLE ELUM RIVER

eroded

eroded

Bullfrog Cutoff Road

eroded

South CLE ELUM

CLE ELUM

YAKIMA RIVER

Airport Road

Masterson Road

Lower Peoh Point Road

R 15 E

R 16 E

T 20 N

T 19 N

W 20 | W 16 | W 12 | W 8 | W 4 | E-W 0.000 | E 4 | E 8 | E 12 | E 16 | E 20

N 12 | N 8 | N 4 | N-S 0.000 | S 4 | S 8 | S 12 | S 16

90 | 10 | 97

ISOPACH MAP - SEAM N°.2

MAP N°.14

CONTOUR INTERVAL EQUALS 2 FEET

(Not corrected to true thickness)

CD Cushman '80

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

OFR 80-1 Plate 14

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MAP 15 of 25

LAKE CLE ELUM

CLE ELUM RIVER

ROSLYN

Eroded

Bullfrog Cutoff Road

CLE ELUM

South CLE ELUM

YAKIMA RIVER

Airport Road

Masterson Road

Lower Peoh Point Road

R 15 E R 16 E

T 20 N

T 19 N

ISOPACH MAP OF INTERVAL BETWEEN SEAMS N°.s 1 & 2

MAP N°.15

THICKNESS MEASURED BETWEEN BASE OF N°.1 & TOP OF N°.2

(Not corrected to true thickness)

CONTOUR INTERVAL EQUALS 10 FEET

C.D.Cushman '80

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

OFR 80-1 Plate 15