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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 16 of 25

LAKE CLE ELUM

ROSLYN

CLE ELUM

South CLE ELUM

CLE ELUM RIVER

YAKIMA RIVER

Bullfrog Cutoff Road

Airport Road

Masterson Road

Lower Peoh Point Road

R 15 E

R 16 E

T 20 N

T 19 N

INDEX TO MINE MAPS

SEAMS 5, 6, 7, & 8

MAP Nº 16

NWI 48-6

MAP NUMBERS REFER TO

DIVISION OF GEOLOGY & EARTH RESOURCES

FILES

NWI 48-7

CROSS SECTION TRACES

C D Cushman '80

S Kimball '79

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

OFR 80-1 Plate 16

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MAP 17 of 25

STRUCTURE CONTOUR MAP TOP OF N°5 SEAM

MAP N° 17

CONTOUR INTERVAL EQUALS 100 FEET

DATUM: MEAN SEA LEVEL

C.D. Cushman '80
S. Kimball '79

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

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Plate 17

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MAP 18 of 25

SAND-SHALE RATIO MAP ABOVE Nº.5 SEAM

MAP Nº. 18

Sand-shale ratio figured for 200 ft. above Nº.5 Seam

SAND/SHALE
CONTOUR INTERVAL EQUALS 1.

(1.= 1/1, 2.= 2/1, etc.)

GD Cushmen '80
S Kimball '79

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

LAKE CLE ELUM

CLE ELUM RIVER

Ronald

ROSLYN

Bullfrog Cutoff Road

YAKIMA RIVER

South CLE ELUM

CLE ELUM

Airport Road

Masterson Road

Lower Peoh Point Road

R 15 E R 16 E

T 20 N T 19 N

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MAP 19 of 25

LAKE CLE ELUM

MINED OUT

MINED OUT

MINED OUT

Geer

40.6% Ash

E 30.1% Ash

D 49.9% Ash

A 39.9% Ash

ROSLYN

B 54.7% Ash

C 66.3% Ash

F 21.9% Ash

CLE ELUM RIVER

CLE ELUM

South CLE ELUM

Bullfrog Cliff Road

YAKIMA RIVER

Airport Road

Masterson Road

Lower Peoh Point Road

90

10

97

R 15 E

R 16 E

T 20 N

T 19 N

STRUCTURE CONTOUR AND ISOPACH MAP - SEAM N°. 6

MAP N°.19

STRUCTURE CONTOUR INTERVAL EQUALS 500 FEET

1500

Datum: mean sea level

ISOPACH CONTOUR INTERVAL EQUALS 1 FOOT

3

(Not Corrected to true thickness)

ASH % FROM TUCK & BOYD WELLS 1966

unless otherwise indicated

A ⊙ 39.9% Ash (as received)

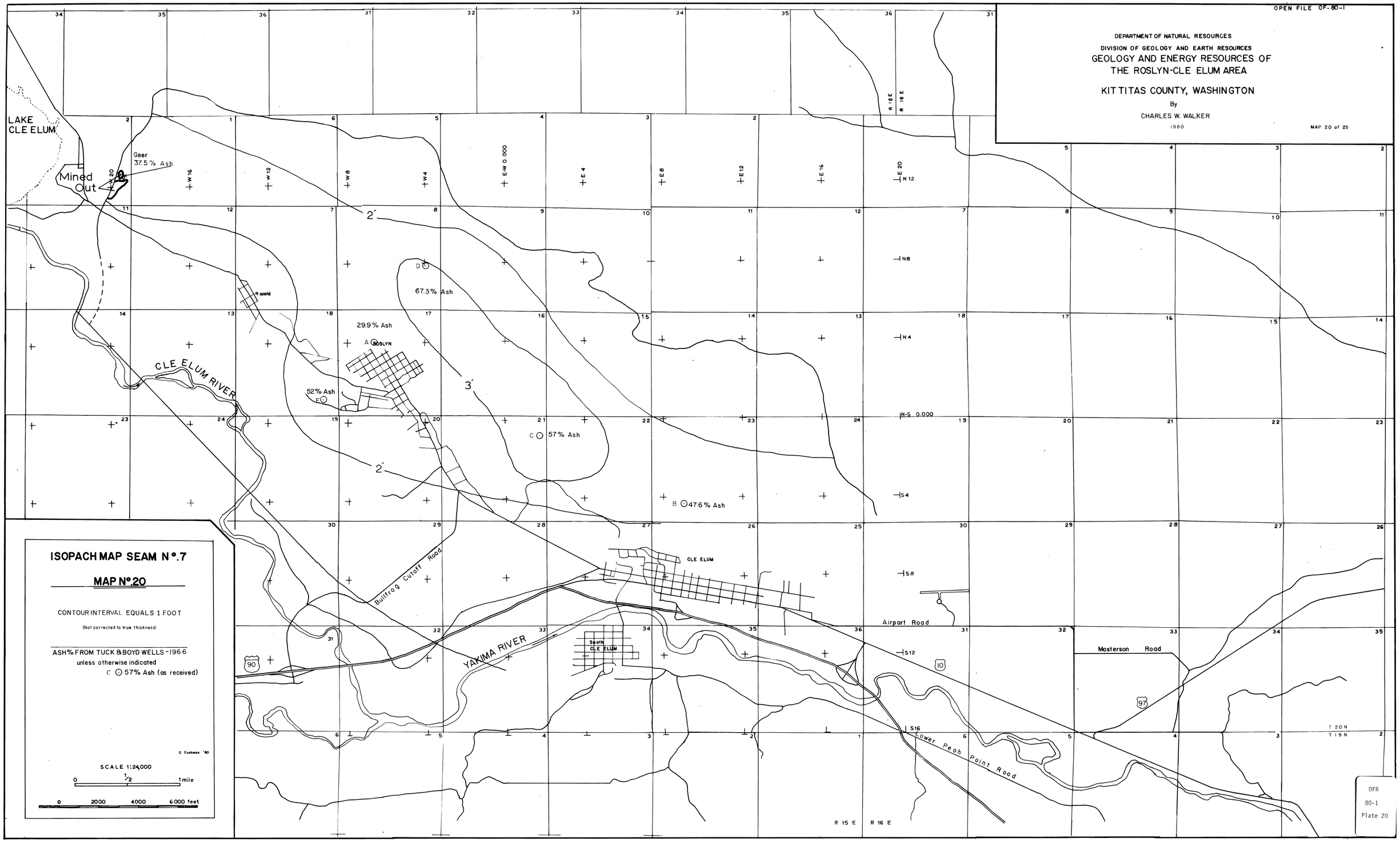
© Cushman '80

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

OFR 80-1 Plate 19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MAP 20 of 25
ISOPACH MAP SEAM N°.7
MAP N°.20
CONTOUR INTERVAL EQUALS 1 FOOT
(Not corrected to true thickness)
ASH% FROM TUCK & BOYD WELLS - 1966
unless otherwise indicated
C ⊙ 57% Ash (as received)
C Cushman '80
SCALE 1:24,000
0 1/2 1 mile
0 2000 4000 6000 feet
LAKE CLE ELUM
Mined Out
Geer 37.5% Ash
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
R 15 E
R 16 E
T 20 N
T 19 N
2'
3'
D 67.3% Ash
29.9% Ash
A ROSLYN
52% Ash
F
C 57% Ash
B 47.6% Ash
CLE ELUM RIVER
Ronald
CLE ELUM
South CLE ELUM
YAKIMA RIVER
Bullfrog Cutoff Road
Airport Road
Masterson Road
Lower Peoh Point Road
90
10
97
OFR
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Plate 20

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MAP 21 of 25

LAKE CLE ELUM

Mined Out

Geer 35.9% Ash

4'

2'

3'

F 40.9% Ash

Ronald

4'

5' 53.3% Ash

ROSLYN

CLE ELUM RIVER

E 39.9% Ash

C 63.8% Ash

Bullfrog Cutoff Road

CLE ELUM

5?

Airport Road

YAKIMA RIVER

South CLE ELUM

Masterson Road

Lower Peoh Point Road

R 15 E

R 16 E

T 20 N

T 19 N

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

ISOPACH MAP-SEAM N°.8

MAP N°.21

CONTOUR INTERVAL EQUALS 1 FOOT

(Not corrected to true thickness)

ASH FROM TUCK & BOYD WELLS - 1966
unless otherwise indicated
E ⊙ 39.9% Ash (as received)

© Cushman '80

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

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MAP 22 of 25

LAKE CLE ELUM

CLE ELUM RIVER

ROSLYN

Ronald

Bullfrog Cutoff Road

CLE ELUM

South CLE ELUM

YAKIMA RIVER

Airport Road

Masterson Road

Lower Peoh Point Road

90

10

97

21.3% Ash
4626 BTU as received
(47) I-79

27.4% Ash
8447 BTU as received
(85) 39-79

R 15 E R 16 E

T 20 N
T 19 N

STRUCTURE CONTOUR AND ISOPACH MAP PATRICKSEAM

MAP N°22

STRUCTURE CONTOUR INTERVAL EQUALS 100 FEET

2400

Datum: mean sea level

ISOPACH CONTOUR INTERVAL EQUALS 1 FOOT

2

(Not corrected to true thickness)

See text for complete sample analysis

(47) I-79 Sample number

© Cushman '80

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

OFR
80-1
Plate 22

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MAP 23 of 25

OVERBURDEN ISOPACH MAP OVER PATRICK SEAM

MAP N°. 23

CONTOUR INTERVAL EQUALS 40 FEET

© Cushman '80

SCALE 1:24,000

0 1/2 1 mile

0 2000 4000 6000 feet

LAKE CLE ELUM

CLE ELUM RIVER

Ronald

ROSLYN

CLE ELUM

South CLE ELUM

YAKIMA RIVER

Bullfrog Cutoff Road

Airport Road

Masterson Road

Lower Peoh Point Road

OUTCROP LINE

440'

400

360

320'

280

240

200

160

120

80

40

R 15 E

R 16 E

T 20 N

T 19 N

OFR 30-1 Plate 23