

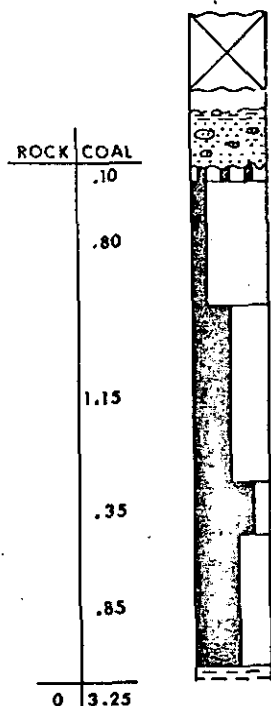
CONFIDENTIAL
OPEN FILE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

00 627

THICKNESS LITHOLOGY

Centimetres



Rubble

Coal, grit and powder w/mud
mudstone

Mixture of mud, coal, grit and powder, mudstone blocks

10 Coal oxidized

80 Coal dull, soft

115 Coal dull and bright, in part blocky

35 Coal 80% bright w/ 1 cm. tk. vitrain bands at ± 5cm.
interval

85 Coal 60% bright w/ dull bands and vitrain bands at ±
10 cm. interval

Gray to brownish gray mudstone

TOTAL THICKNESS = 3.25 m.

DENISON COAL LIMITED

(COAL DIVISION)

CALGARY

ALBERTA



1976 SAXON
TRENCH SECTION A-2

DRAWN BY L MFB

DATE Nov. 1976

SCALE 1:50

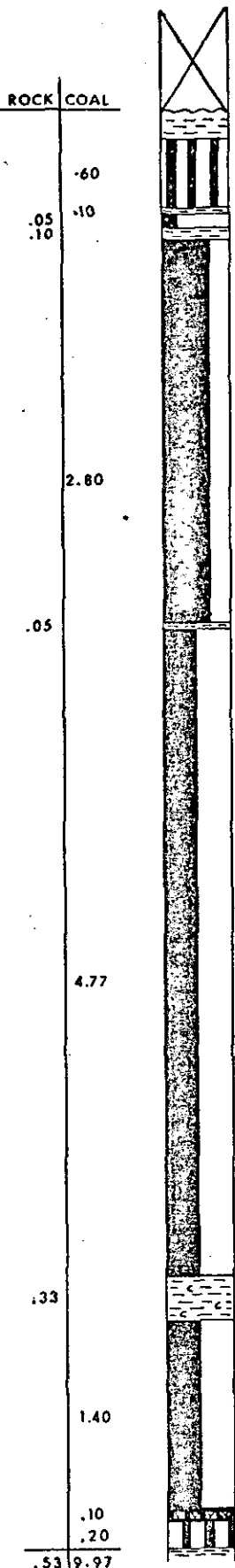
APPROVED BY

DRAWING NO. SXON 76 - 0686 - ROI

THICKNESS LITHOLOGY

Centimetres

(Thickest Coal Seam)



Gray mudstone

60 Coal, oxidized, soft-crumbly, gritty

5 Gray mudstone

10 Coal mainly dull w/faint bright band?

10 Gray mudstone

N37E, 25NW

280 Coal 70% bright w/ dull bands, hard


5 Gray mudstone

650 Coal, dull and bright bands

33 Mudstone, carb., gray, friable.

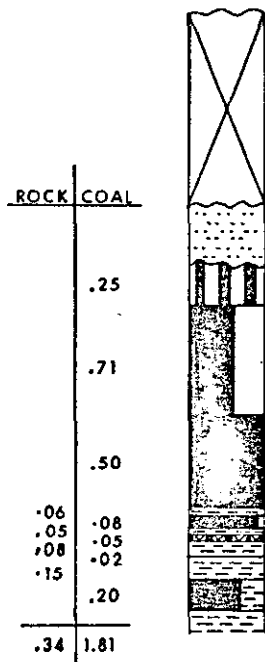
10 Vitrain band
20 Coal oxidized,
soft to crumbly
Gray mudstone.

TOTAL THICKNESS = 10.50 m.

DENISON COAL LIMITED		
(COAL DIVISION)		
CALGARY	ALBERTA	
1976 SAXON TRENCH SECTION A-4		
DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-RO1	

THICKNESS LITHOLOGY

Centimetres



- 40 powdery-gritty coaly material
- 25 coal oxidized, soft, crumbly
- 71 coal 60% bright (as 1-2 cm tk. vitrain bands 8 cm apart)
- 50 coal bright
- 6 cm tk mudstone - N16W, 20 NE
- 8 cm coal about 90% vitrain
- 5 cm mudstone
- 5 cm vitrain band
- 8 cm mudstone
- 2 cm vitrain band
- 15 cm mudstone
- 20 cm coal 70% bright w/ 1-2 cm tk. vitrain bands 5 cm apart and some mudstone inclusions
- mudstone base

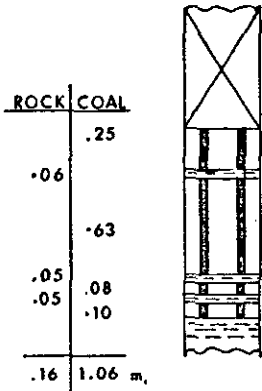
TOTAL THICKNESS = 2.15m.

Coal Section 2.15

DENISON COAL LIMITED		
(COAL DIVISION)		
CALGARY	ALBERTA	
1976 SAXON TRENCH SECTION A-5		
DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50
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THICKNESS LITHOLOGY

Centimetres



- 25 coal powdery
- 6 mudstone, lt. brown, very carb.; friable
- 63 coal 60-70% blocky, breaks into cubes; red streaks
- 5 mdst; rd. brown, wet. brn; friable; with coal str;
1 cm = 2 tot.
- 8 coal 60% bright; oxid.
- 5 mdst. rd. brown, wet-brn. friable, carb. specks
- 10 coal 70%; oxid; vit.
mudstone; lt. to med. brown, carb. specks; friable

11°W
010°

TOTAL THICKNESS = 1.17m

DENISON COAL LIMITED			
CALGARY ALBERTA			
1976 SAXON TRENCH SECTION A-6			
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50	
APPROVED BY	DRAWING NO SXON 76-0686-ROI		

THICKNESS LITHOLOGY

Centimetres

ROCK | COAL

.089

.535

0 | .624 m



55.9 Surface soil; rock

8.9 Coal, dull, oxid; powd.

83.5 Coal; vitrain; breaks into cubes, banded; cubic breakage or blocky breakage in vitrain bands; 60 - 80% - bright with dull bands.

Mudstone; lt. brown; carb. specks.

15°W
018

TOTAL THICKNESS = 0.624 m

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

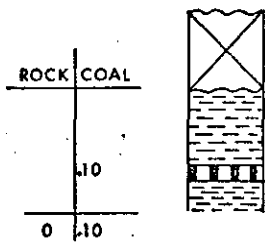


1976 SAXON
TRENCH SECTION A-8

DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-ROI	

THICKNESS LITHOLOGY

Centimetres



10

Coal


Rubble

Dark gray; carbonaceous mudstone;

Oxidized

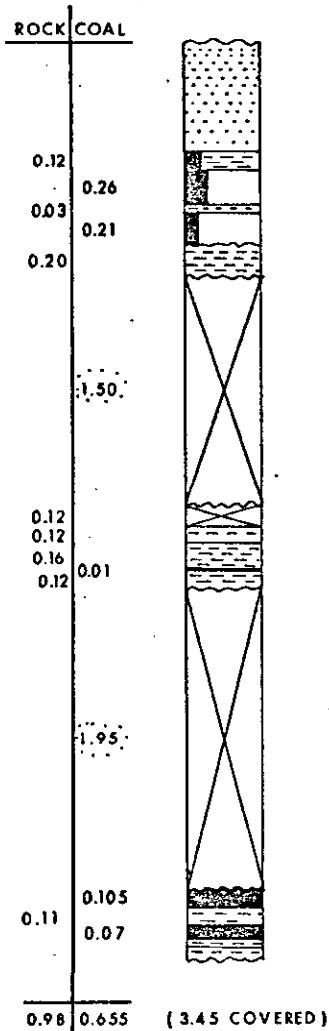
Dark gray carbonaceous mudstone

TOTAL THICKNESS = 0.10 m

DENISON COAL LIMITED		
CALGARY ALBERTA		
1976 SAXON TRENCH SECTION A-9		
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-ROI	

THICKNESS LITHOLOGY

Centimetres



TOTAL THICKNESS = 1.635 m.

- 73 S.S. Lt. to medium brown; carb. specks; chert and qtz. grains, medium grained; clay matrix/possible limonite cement; sparkles; laminated; massive (outcrop)
- 12 Mudst, coal, mudstone, clay - mdst. dkgy (dry); friable; carb material abund; - coal vitrain; 40% - 60% dull bright - mdst dkgy - clay lt. - md. brn; carb mat.
- 26 Coal; possibly clarain; dull bands powd. red laminations oxid. at top - dull bright bands 5 cm - vitrain coal 5 cm breaks into cubes - 3 cm vit. coal stringers.
- 3 Mudstone; dk. gy (wet); friable, carb. material abundant.
- 21 Coal; dull laminated; powdery; breaks into cubes; grades up to a harder texture - dense; thin vitrain laminations at top.
Mudstone; dkgy (moist) - dk brown (dry)
- 12 Soil
- 12 Mdst; very fine; eroded;
- 16 Mdst; light red brown; breaks into blacks; lam.
- 1 Coal and mdst.
- 12 mdst mid. brown - dk grey; carb. specks; friable.

Note: The following portion of the trench was unable to be followed all the way up to the above portion of the trench.

$18^{\circ}W$
 026

Note: The following portion of the trench was unable to be followed all the way up to the above portion of the trench

- 10.5 Coal; oxid; dull; powdery; very fine mdst - strips
- 11 Mdst; oxid dk brown; carb. specks, friable; coal-stringers 2 mm to 8 mm
- 7 Coal; base vitrain; top durain 50% shale
- 5 Mdst; dk. gray, highly carb; possibly coal content.
- 7.5 ? Mdst; dk gray; carb.

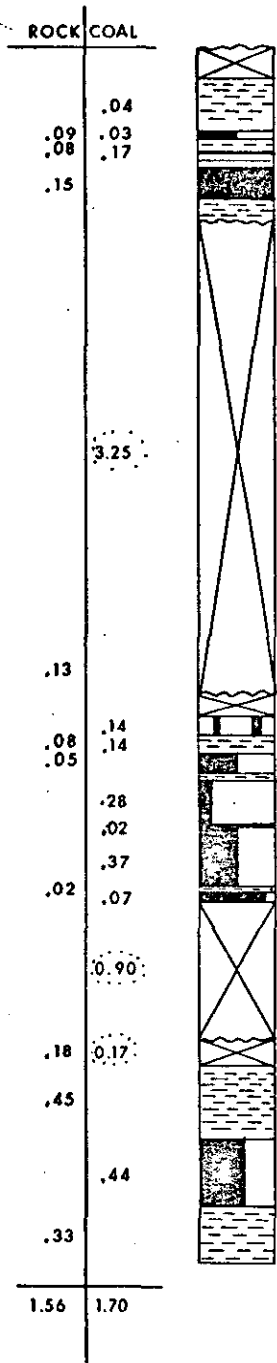
Str. 018⁰
Dip 15⁰W

CSW/CE

DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION A-10			
DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50	
APPROVED BY	PROJECT NO. SAXON 76-0686-801		

THICKNESS LITHOLOGY

Centimetres



Lt. tan, lim nite cement, medium grained; cherty and quartz grains, carb. specks; carb. lam., cross bedding, clay matrix.

- 20 Soil
- 35 Mdst; oxid.
- 04 Coal; 2 cm top vitrain 2 cm bottom coal and mdst together
- 09 Shale; dk gray; slightly cherty.
- 03 Coal, vitrain
- 08 Clay
- 17 Coal; clarain; break into cubes.
- 15 Mdst.; dk brown; carb. specks; very friable;

Str. 026⁰
Dip 2 - 5° W

NOTE: The 3 sections in this trench that were measured cannot be joined together. They are incomplete due to stratigraphic conditions. Slumping is a real possibility.

- 13 Soil
- 14 Coal, oxid.. vitrain stringer 1 cm.
- 08 Mudstone; dark gray; carb.
- 14 Coal oxid; dull; 50% bright
- 05 Mudstone, dark brown; carb. specks
- 28 Coal; dull; powdery; oxid.
- 02 Coal; very peatty, almost peatmoss
- 37 Coal; dull and bright bands; 40-60% bands; oxid very moist

- 02 Mudstone; very carb.; friable
- 07 Coal; very hard - 90% bright; dry

str. 028⁰
11° W

- 18 Soil
- 45 Mudstone; medium gray, carb. specks; friable
- 44 Coal, vitrain, 40-60% dull bright; oxid; breaks into cubes
- 35 Mudstone, reddish brown, massive; solid.

TOTAL THICKNESS
EXPOSED = 3.26 m.
(COVERED = 4.32 m.)

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA

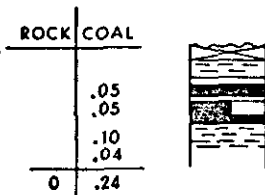


1976 SAXON
TRENCH SECTION A-12

DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76 - 0686 - ROI	

THICKNESS LITHOLOGY

Centimetres



TOTAL THICKNESS = 0.24 m

- 07 Soil
- .10 Mdst; dk. gray; carb; oxid.
- .04 Clay
- .05 Coal; oxid; powdery with vitrain stringers; dull
- .05 Coal; with fine mdst. - stringers
- .10 Coal; 50% vitrain
- .04 Coal; very fine mdst; oxid, friable - crumbly
- ? Mdst; red, brown; carb. specks friable; grades massive

Str. 055°

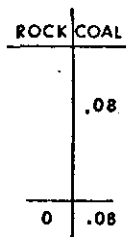
Dip $8^{\circ}W$

NOTE: All measurements taken from upper end of trench as lower ends were badly slumped.

DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION A-13			
DRAWN BY	L MCB	DATE	Nov. 1976
APPROVED BY		DRAWING NO	SXON 76-0686-ROI
		SCALE	1:50

THICKNESS LITHOLOGY

Centimetres



Sandstone: red. brown; quartz - cherty grained; poss. lim. cement; clay matrix (?)
 very fine grained; carb. lam.; copper ovid noticed (green);

Str. 035° }
 Dip $15^{\circ}W$ } poss. crossbedding

- .12 soil
- .09 clay; light brown
- .09 mdst. and clay, dk brown; carb. stringers
- .08 coal; oxid; dull
- .10 clay; md. brown
- .01 mdst;
- .15 clay;
- .03 mdst; carb. dk gray
- ? mdst; red. brown, massive; hard;

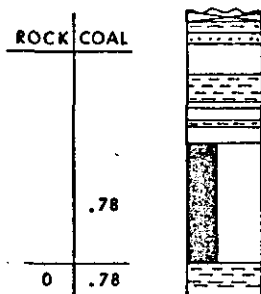
TOTAL THICKNESS = 0.08 m

str. 069°
 dip $70^{\circ}W$

DENISON COAL LIMITED <small>(COAL DIVISION)</small>		
CALGARY	ALBERTA	
1976 SAXON TRENCH SECTION A-14		
DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-ROI	

THICKNESS LITHOLOGY

Centimetres



TOTAL THICKNESS = 0.78 m

- 05 Soil
- 08 Shale; light gray, ironstone nodules, carb. specks, platy, laminated;
- 06 Siltstone; light brown; ironstone; laminated
- 23 Clay; dk. gray, carb.
- 19 Mudstone; dry light gray
- 03 Shale; reddish; muscovite mica
- 08 Clay; light brown; carb.
- 05 Siltstone; medium gray, carb. specks; cherty hard.
- 10 Clay; medium brown; carb; hard
- 78 Coal; oxid; hard; dull and bright bands; hardness increases with depth; 20-40% dull bright.
- ? (bottom) Mudstone; dark gray, brown; very carb.;

14⁰W
075⁰

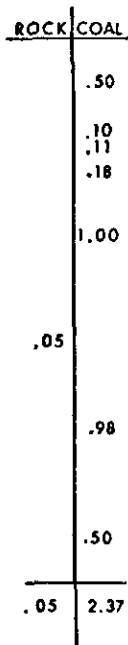
DENISON COAL LIMITED (COAL DIVISION)			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION A-15			
DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50	
APPROVED BY	DRAWING NO SXON 76-0686-RO1		

THICKNESS LITHOLOGY

Centimetres

Black 1 (B)


Trench 1B



- ? Soil
- 1 Coal; oxid; dull, powdery
- 11 Coal; dull, hard; no laminations
- 18 Coal; oxid; bright - 70%; minor laminations, possibly vitrain
- 100 Coal; oxid, banded 70% bright - 30% dull, hard, breaks into cubes; vitrain bands.
- 05 Mudstone; dark gray, carb.; friable
- 98 Coal; oxid; banded; 80% bright; vitrain bands.
- ? Coal; A.B. Approx. measurement of coal extremely difficult due to the depth of trench and hardness of coal (digging extremely hard at this point).
- ? S.S.; lt.-medium gray, massive; quartz and chert grains; no HCL reaction; weathers gray; possible clay matrix and cement.

TOTAL THICKNESS
EXPOSED = 2.42 m
(COVERED = 1.00 m)

30° S.W.
020

DENISON COAL LIMITED			
CALGARY ALBERTA			
1976 SAXON TRENCH SECTION B-1			
DRAWN BY	L MCB	DATE	Nov. 1976
SCALE	1:50		
APPROVED BY	DRAWING NO. SXON 76-0686-RC1		

THICKNESS

LITHOLOGY

Centimetres

Block 1 (B)

Trench 2B

Unable to find Coal Seam
Due to depth of overburden.

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA



1976 SAXON
TRENCH SECTION B-2

DRAWN BY L MFB

DATE Nov. 1976

SCALE 1:50

APPROVED BY

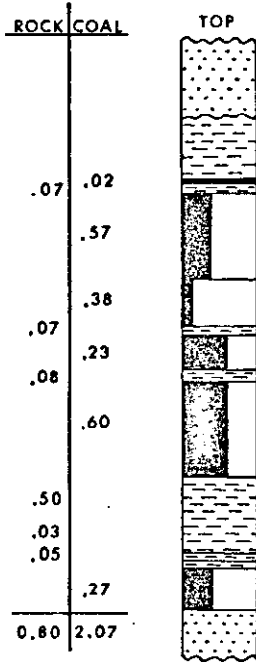
DRAWING NO SXON 76-0686-ROI

THICKNESS LITHOLOGY

Centimetres

Block 1 (B)

Trench 3B



TOTAL THICKNESS = 2.87 m.

- ? S.S.; outcrops; lt. reddish brown; very fine; grades to Sh. and Siltstone at bottom, finely laminated; crossbedding present; limonite stain; clay matrix (?); carbeneous material present.
18°W
020°
- .43 mudstone; reddish brown; friable; carb.; laminations.
- .02 coal; oxid; vitrain
- .07 mudstone; light in dark gray; highly carb.
- .57 coal oxid; breaks into cubes / some blocks; compact; 40% shine.
- .38 coal; oxid, has wet clay appearance, some banding - possibly Durain; Vitrain present.
- .07 Mudstone; dark reddish yellow and brown; extremely flaky; carb.
- .23 coal; banded; 40% dull - 60% bright, breaks into cubes; vitrain bands.
- .08 Mudstone; dark reddish yellow; friable
- .6 Coal; oxid; 60% bright - 40% dull; banded; hard; vitrain coal possibly.
- .5 Mudstone; dark gray carb.; massive; hard; laminated.
- .05 Mudstone, reddish brown-yellow; friable; carb; sparkles; muscovite or pyrite.
- .05 Mudstone; dark gray, carb; massive; hard; laminated.
- .27 Coal; oxid; dully banded; 40% bright; solid
- ? S.S.; reddish brown; fine grained; sparkles. Muscovite - pyrite; limonite stain abundant, massive; hard; carb. specks; clay matrix (?)

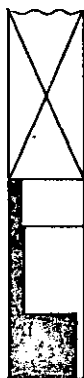
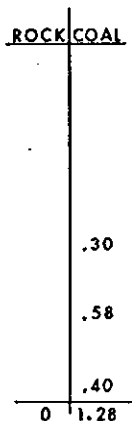
DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION B-3			
DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50	
APPROVED BY	DRAWING NO 5XON 76 - 0686 - RO1		

THICKNESS LITHOLOGY

Centimetres

Block 1 (B)

Trench 4B



1.1 m Soil

.3 m Coal; oxid; dull; powdery;
 .58 Coal; oxid; dull, packed; with vitrain bands

4 (?) Coal; hard; 90% shine; vitrain, breaks into blocks
 bottom (?)

$\frac{38^{\circ} \text{ S.W.}}{020}$

TOTAL THICKNESS = 1.28 m

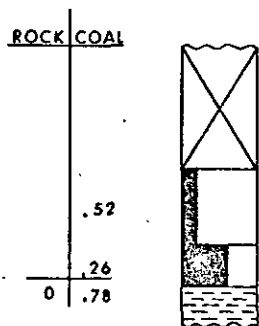
DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION B - 4			
DRAWN BY: L M ^c B	DATE: Nov. 1976	SCALE: 1:50	
APPROVED BY:	DRAWING NO: SXON 76 - 0686 - RO1		

THICKNESS LITHOLOGY

Centimetres

Block 1 (B)

Trench 5B



TOTAL THICKNESS = 0.78 m

- 8 Surface Soil
- 52 Coal; oxid; dull, powdery
- 26 Coal, oxid, vitrain; breaks into cubes; banded;
 approx. 60-40%
 Bright - Dull
- ? Mudstone; dark gray-wet; reddish brown dry, highly
 carb.; friable

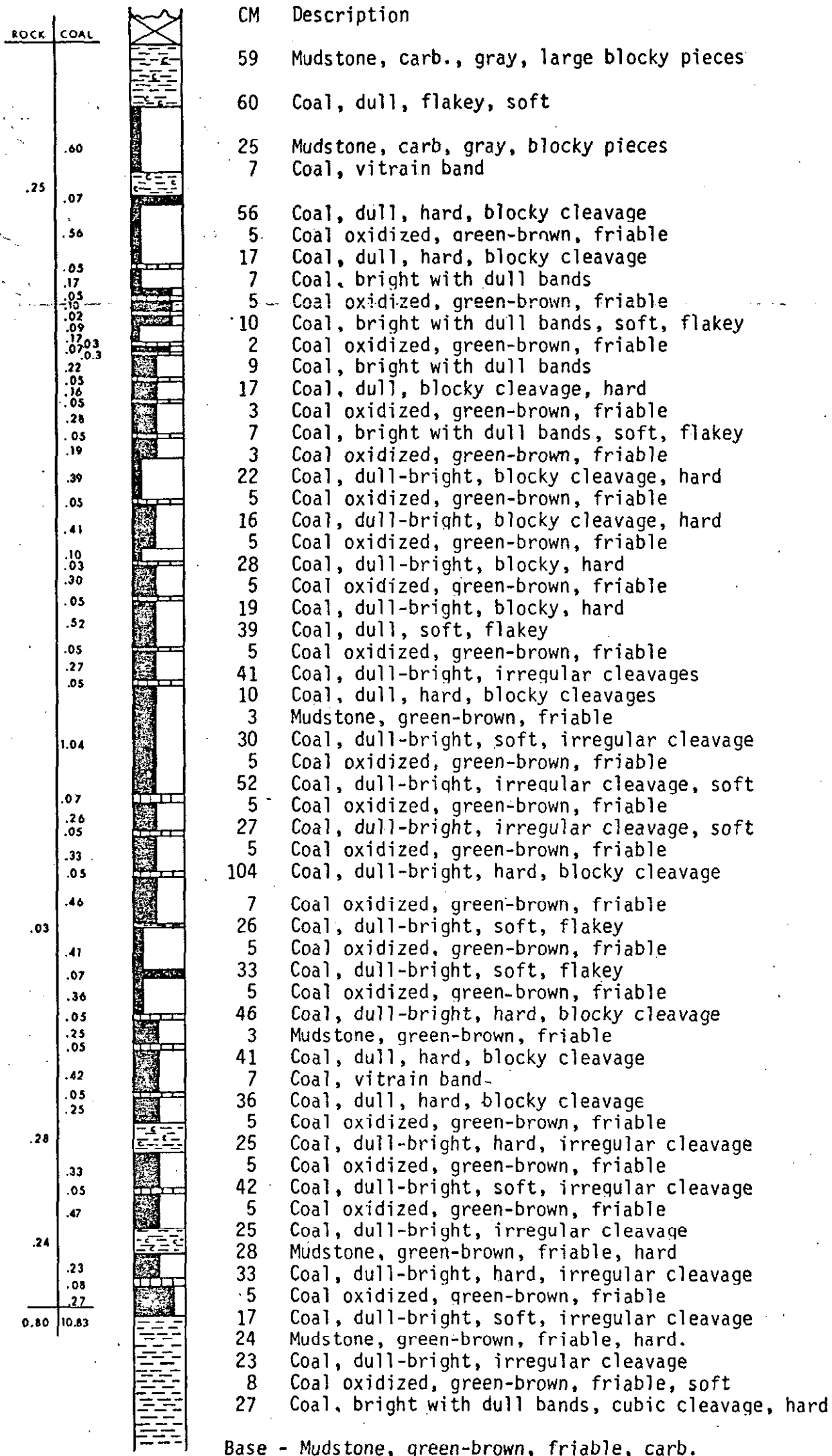
$\frac{36^{\circ} \text{ S.W.}}{029}$

Sandstone reddish brown; massive; sparkles - possibly muscovite or pyrite (v-f); Carbonaceous Laminae; fossil plants, limonite Stain; Clay matrix (?)

$\frac{38^{\circ} \text{ S.W.}}{044^{\circ}}$

DENISON COAL LIMITED			
COAL DIVISION			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION B - 5			
DRAWN BY	L MFB	DATE	Nov. 1976
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		DRAWING NO	SXON 76 - 0686 - ROI

Centimetres



Base - Mudstone, green-brown, friable, carb.

TOTAL THICKNESS = 11.63m.

DENISON COAL LIMITED		
CALGARY ALBERTA		
1976 SAXON TRENCH SECTION C-1		
DRAWN BY L M C B	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76 - 0686 - ROI	

ROCK COAL

THICKNESS LITHOLOGY

Centimetres

30


30 Dark gray, weath. brownish mudstone
295, 50°SW

900+

900+ Coal, oxidized, soft, crumbly. Base can
not be found.

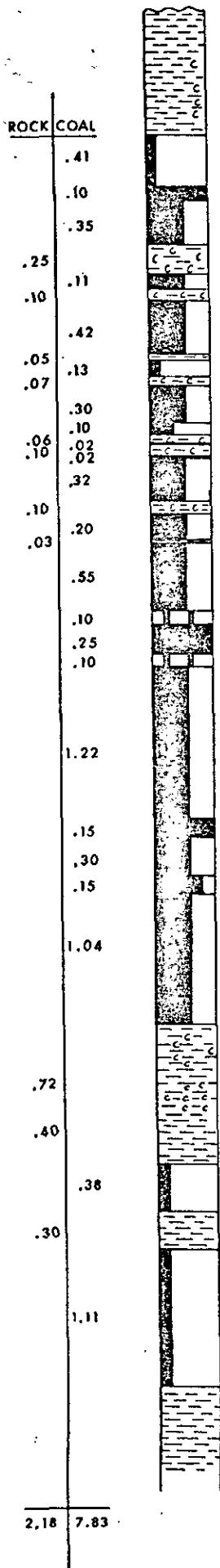


End of trench,
floor still in
soft, crumbly coal

DENISON COAL LIMITED		
<small>(COAL DIVISION)</small>		
<small>CALGARY</small>	<small>ALBERTA</small>	
1976 SAXON TRENCH SECTION D-1		
<small>DRAWN BY</small> L MCB	<small>DATE</small> Nov. 1976	<small>SCALE</small> 1:50
<small>APPROVED BY</small>	<small>DRAWING NO</small> SXON 76-0686-RO1	

THICKNESS LITHOLOGY


Centimetres



		Mudstone - red, brown; friable; carbonaceous
41	Coal - dull and powdery	
10	- bright	
35	- dull and bright	
25	Mudstone - gray, very carbonaceous	
11	Coal - dull and bright	
10	Mudstone - green-brown, carb, slightly cherty	
42	Coal - dull and bright	
5	Mudstone - dark gray, very carbonaceous, coal band in centre.	
13	Coal - dull, hard, blocky	
7	Mudstone - red-brown, carbonaceous, friable	
30	Coal - dull and bright, blocky	
10	- dull banded, blocky, hard	
6	Mudstone, dark gray, carb., friable	
2	Coal - bright	
10	Mudstone, dark gray, hard, carbonaceous	
2	Coal - bright	
32	- dull and bright	
10	Mudstone - dark gray, carb., hard, blocky	
20	Coal - dull and bright	
3	Mudstone - green-brown, carbonaceous	
55	Coal - dull and bright, very hard	
10	- oxidized, powdery	
25	- bright, very hard.	
10	- oxidized, powdery	
122	- dull and bright, hard	
15	- bright	
30	- dull and bright	
15	- bright, banded	
104	- dull and bright	
72	Mudstone - very carbonaceous, soft, dark gray.	
40	Mudstone - light gray	
38	Coal - dull	
30	Mudstone - medium gray	
111	Coal - dull	
	Mudstone - dark gray	

1001

TOTAL THICKNESS = 10.01 m

DENISON COAL LIMITED			
COAL DIVISION			
CALGARY	ALBERTA		
1976 SAXON TRENCH SECTION D-2			
DRAWN BY	L MCB	DATE	Nov. 1976
APPROVED BY		SCALE	1:50
		DRAWING NO	SXON 76 - 0686 - R01

THICKNESS LITHOLOGY

Centimetres



- 45 Orange Sandstone, small cross beds (1 - 2 cm)
- 34 Carb. Mudstone beds - 1 cm. thick
- 168 Coal, oxidized
- 100 Mudstone, light brown, beds - 1 cm thick
- 34 Carb. Mudstone beds - 1 cm thick
- Orange Sandstone, cross-beds 1 - 4 cm thick

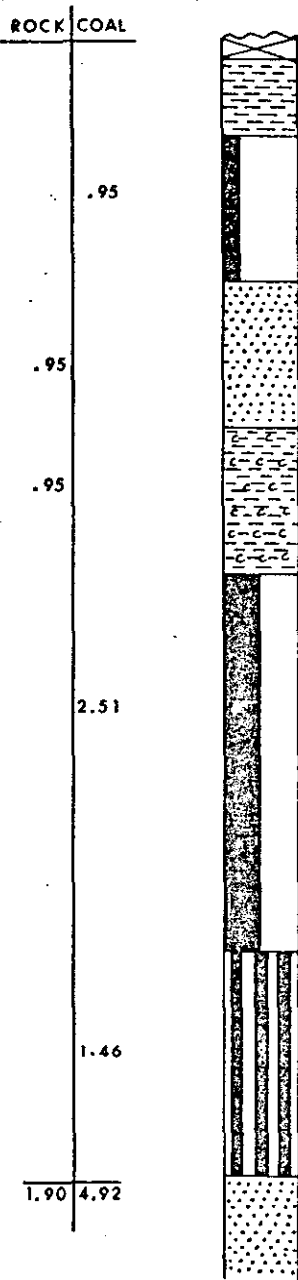
TOTAL THICKNESS = 1.68 m.

1 cm = 0.50 m

DENISON COAL LIMITED <small>(COAL DIVISION)</small>		
CALGARY	ALBERTA	
1976 SAXON TRENCH SECTION D - 3		
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-ROI	

THICKNESS LITHOLOGY

Centimetres



- 51 Mudstone, brown, beds - 1 cm thick
- 95 Coal, dull, approx. 8% bright bands
- 95 Orange sandstone, cross beds 1 - 2 cm thick
- 95 Mudstone, carb. beds - 1 cm thick
- 251 Coal, dull-bright, blocky cleavage hard.
- 146 Coal, weathered
- Base, gray sandstone, slumped, cross-beds 1 - 10 cm thick.

TOTAL THICKNESS = 6.82 m.

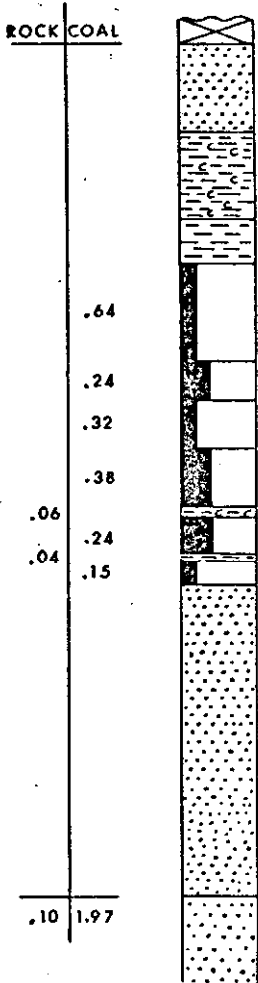
Strike =

Dip = 47°S

DENISON COAL LIMITED <small>(COAL DIVISION)</small>		
CALGARY	ALBERTA	
1976 SAXON TRENCH SECTION D-4.		
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-ROI	

THICKNESS LITHOLOGY

Centimetres




- 57 Sandstone, orange, finely bedded (approx. 1-2 cm)
- 58 Mudstone, carb., beds approx. 1 cm and 2 small orange sandstone interbeds (1 - 2 cm) present
- 29 Tan mudstone, beds approx. 1 cm thick
- 64 Coal, dull, flakey, finely bedded
- 24 Coal, dull-bright, hard, cleaves into cubes approx. 1 cm.
- 32 Coal, dull, flakey, finely bedded.
- 38 Coal, dull-bright, cleaves into cubes 1 - 2 cm in size
- 6 Mudstone, gray, carb., finely bedded (0.5cm), friable
- 24 Coal, dull-bright, hard, blocky, cleavage
- 4 Mudstone, carb. finely bedded (1 cm)
- 15 Coal, dull, flakey, finely bedded

- 205 Sandstone - weathers gray, coarse grained

Base sandstone, orange, X-beds 1-2 cm thick. Formation is very thick.

TOTAL THICKNESS = 2.07 m.

Dip = 35° S
 Strike = 142°

DENISON COAL LIMITED		
CALGARY ALBERTA		
1976 SAXON TRENCH SECTION D-5		
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-ROI	

THICKNESS LITHOLOGY

Centimetres

ROCK	COAL
.04	.05 .05 .07
.03	.16
.05	.14
.06	.10 .08
.05	.05
.03	.05
.04	.07 .18 .23
.09	.06
.07	



- 3 Mudstone, green-brown, finely bedded.
- 5 Coal, dull bright, soft, cable cleavage
- 5 Coal, weathered.
- 4 Mudstone, green-brown, finely bedded.
- 7 Coal, dull-bright, soft, cubic cleavage.
- 3 Mudstone, carb., fryable, dark grey.
- 16 Coal, weathered.
- 5 Mudstone, dark green-brown, powdery.
- 14 Coal, dull, few shiny bands.
- 10 Coal, dull-bright, cleaves into cubes and elongated pieces.
- 6 Mudstone, red-brown, carb. friable.
- 8 Coal, dull-bright, soft, cubic cleavage
- 5 Coal, weathered.
- 5 Mudstone, dark, grey-green.
- 5 Coal, dull-bright, oxidized, soft.
- 5 Coal, dull-bright, hard, 50% bright bands.
- 3 Mudstone, carb. red-brown, weathered.
- 7 Coal, dull-bright, oxidized.
- 4 Mudstone, carb. dark grey, friable.
- 4 Coal, dull-bright, cubic cleavages.
- 5 Coal, dull, oxidized.
- 18 Coal, bright with dull bands.
- 23 Coal, dull-bright, oxidized.
- 9 Mudstone, carb., green-brown, friable.
- 6 Coal, vitrain band.
- 7 Mudstone, Carb., green-brown, friable.

7.93

793 Coal, weathered.

.46 9.27

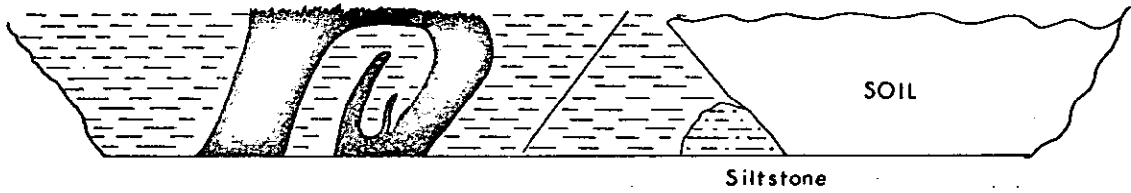
TOTAL THICKNESS = 9.73 m.

Mudstone, Carb., Dark Red-Brown, Fryable.

DENISON COAL LIMITED		
(COAL DIVISION)		
CALGARY	ALBERTA	
1976 SAXON TRENCH SECTION D-6		
Mudstone, Carb., Dark Red-Brown, Fryable.		
DRAWN BY L MFB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-RO1	

N

S



Siltstone

DENISON COAL LIMITED

(COAL DIVISION)

CALGARY

ALBERTA



1976 SAXON
TRENCH SECTION E-1

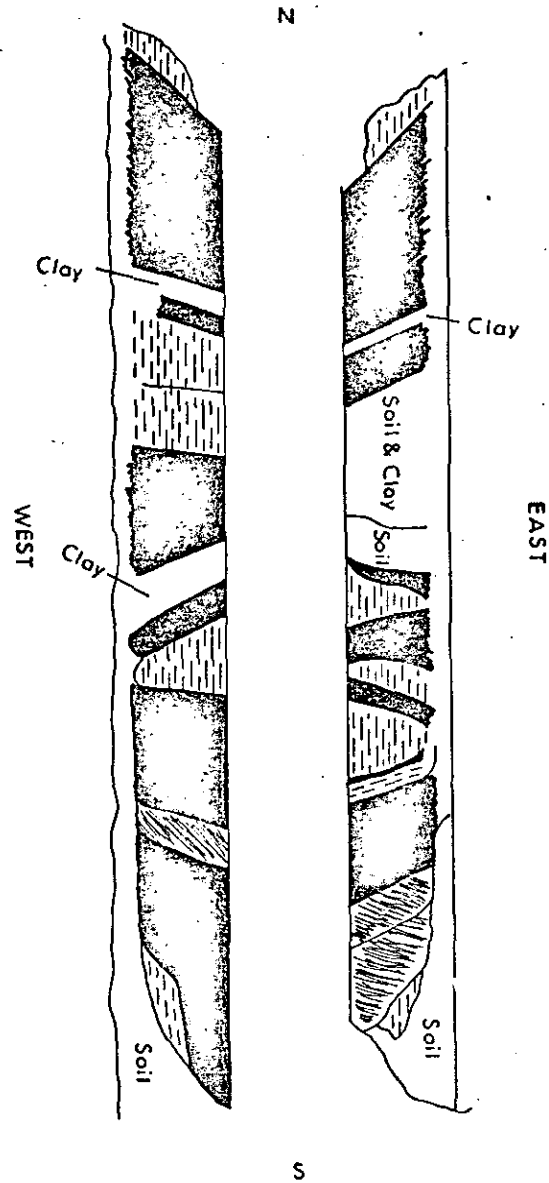
DRAWN BY LMCB

DATE Nov. 1976

SCALE 1:50

APPROVED BY

DENISON NO. SAXON 76-0486-PO1



DENISON COAL LIMITED
(COAL DIVISION)
 CALGARY ALBERTA



1976 SAXON
 TRENCH SECTION E-2

DRAWN BY L MCB

DATE Nov. 1976

SCALE 1:50

APPROVED BY

PLANT NO SXON 76-0686-RO1

THICKNESS LITHOLOGY

Centimetres

ROCK	COAL
.07	.30
.06	.38
.05	.15
.18	.83



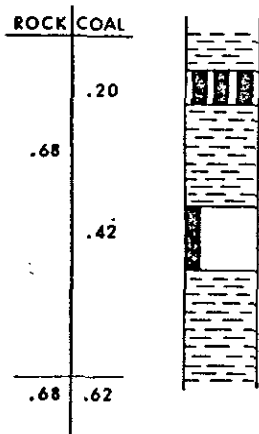
- 20 Moisture - orange brown carbonaceous mudstone
- 7 Coal, flakey, poor quality, dull
- .30 Carbonaceous mudstone, grey
- 6 Coal, flakey, poor quality, dull
- 38 Mudstone, grey, carbonaceous
- 5 Coal, flakey, poor quality, dull

TOTAL THICKNESS = 101 m

DENISON COAL LIMITED <small>(COAL DIVISION)</small>		
CALGARY	ALBERTA	
1976 SAXON TRENCH SECTION E-3		
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76 - 0686 - ROI	


THICKNESS LITHOLOGY

Centimetres



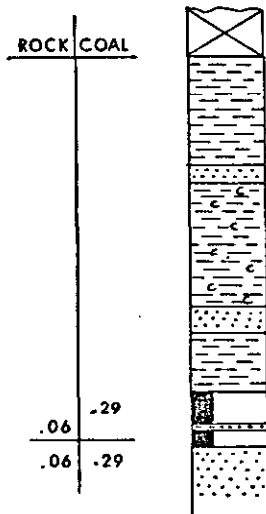
- 20 Coal, weathered
- 68 Mudstone, finely bedded, light brown grey
- 42 Coal, flakey, dull, soft
- 73 Mudstone, finely bedded, brown grey

TOTAL THICKNESS = 1.30 m

DENISON COAL LIMITED <small>(COAL DIVISION)</small> CALGARY ALBERTA			
1976 SAXON TRENCH SECTION E-4			
<small>DRAWN BY</small> L M ^c B	<small>DATE</small> Nov. 1976	<small>SCALE</small> 1:50	
<small>APPROVED BY</small>	<small>DRAWING NO</small> SXON 76 - 0686 - RO1		


THICKNESS LITHOLOGY

Centimetres



- 71 Mudstone, light brown, finely bedded (approx. 0.5 - 1.0 cm)
- 10 Sandstone, orange, fine grained, finely bedded (1 cm)
- 81 Mudstone, carbonaceous, grey, finely bedded (approx. 0.5 - 1.0 cm)
- 17 Sandstone, orange, fine grained
- 36 Orange mudstone, finely bedded (1 cm)
- 35 Coal, dull, flakey, 6 cm band of carbonaceous mudstone located 10 cm from end of seam

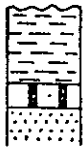
TOTAL THICKNESS = 0.35 m.

DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
<small>CALGARY ALBERTA</small>			
1976 SAXON TRENCH SECTION E - 5			
<small>DRAWN BY</small> L M ^c B	<small>DATE</small> Nov. 1976	<small>SCALE</small> 1:50	
<small>APPROVED BY</small>	<small>DRAWING NO</small> SXON 76-0686-RO1		

THICKNESS LITHOLOGY

Centimetres

ROCK	COAL
	.15
0	.15



15 Mudstone - gray, carbonaceous

Coal - oxidized, dull.

Sandstone - orange brown, medium grained.

TOTAL THICKNESS = 0.15 m

DENISON COAL LIMITED
(COAL DIVISION)

CALGARY

ALBERTA



1976 SAXON
 TRENCH SECTION E-7

DRAWN BY LMCB

DATE Nov. 1976

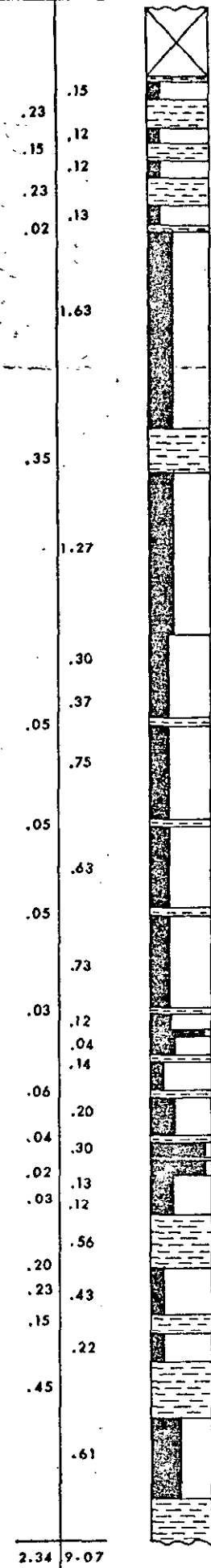
SCALE 1:50

APPROVED BY

DRAWING NO. SXON 76-0686-ROI

Centimetres

ROCK COAL



Trench D-1

Outcrop - S.S.

- 54cm Topsoil
- 2cm Mudstone; weathers reddish-brown, highly carb; friable.
- 15cm Coal; oxid; powdery; dull
- 23cm Mudstone; reddish-brown; highly carb.
- 12cm Coal; oxid. powdery
- 15cm Mudstone, reddish-brown; friable; carb.
- 12cm Coal; oxid; powdery
- 23cm Mudstone; reddish-brown, highly carb.
- 13cm Coal; oxid; powdery; dull
- 2cm Mudst; weathers reddish-brown; highly carb; friable

- 163cm Coal; dull; flaky

- 36cm Mudstone, gray; carb; platy

- 127cm Coal; dull-bright; breaks into blocks

- 30cm Coal; dull; flaky; breaks into blocks
- 37cm Coal; dull; bright; blocky.
- 5cm Mudstone; greenish-brown; friable.
- 75cm Coal; dull bright
- 3cm Mudstone; greenish-brown, friable
- 63cm Coal; dull, bright; breaks into cubes and blocky pieces.
- 5cm Mudstone; greenish brown, flaky carb.
- 73cm Coal; dull bright; breaks into blocks, rectangular.
- 3cm Mudstone, greenish-brown, flaky; carb.
- 12cm Coal; dull-bright, blocky
- 4cm Coal; vitrain, small-blocky pieces; platy
- 14cm Coal; dull-bright, blocks, coal.
- 6cm Mudstone, greenish-brown, flaky. carb.
- 20cm Coal, dull, crumbly, flaky; soft.
- 4cm Mudstone, dark-gray, carb; beds 102cm thick
- 30cm Coal, dull bright; breaks into rounded pieces-blocky; 1 cm thick.
- 2cm Mudstone; greenish brown, carb.
- 13cm Coal, vitrain
- 3cm Mudstone, greenish brown, carb.
- 12cm Coal, vitrain
- 56 cm Coal, dull-bright, breaks into blocky pieced, cubic-rectangular.
- 20cm Mudstone; dark gray, carb.; thinly bedded.
- 23cm Mudstone; reddish-brown, slightly carb., breaks into blocks.
- 43cm Coal; dull; flaky; breaks into small irregular pieces.
- 15cm Mudstone; gray, carbeneous; friable; finely bedded.
- 23cm Coal; dull-bright
- 45cm Mudstone; dark gray; highly carb; blocks; bedded, 2cm thick.
- 61cm Coal; breaks into cubes; 50% bright.

- Bottom Mudstone; dark gray, highly carb; friable.

TOTAL THICKNESS = 11.41 m.

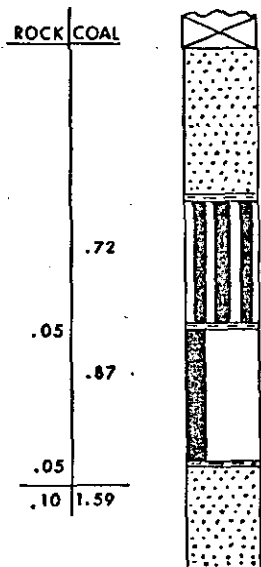
142°

54°E

DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION E-8			
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50	

THICKNESS LITHOLOGY

Centimetres



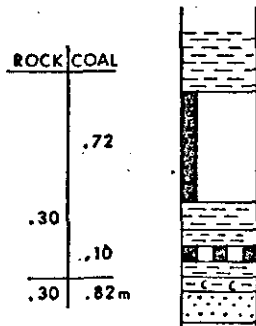
CM	Description
62	Sandstone, Fine Grained, Orange Cross beds - 1 - 3 cm thick.
5	Gray mudstone carb.
72	Coal, oxidized
5	Gray, mudstone, carb.
87	Coal, dull, flakey, breaks into irregular pieces.
5	Mudstone, gray, carb.
	Fine grained, orange sandstone Cross beds - 1 - 3 cm thick.

TOTAL THICKNESS = 1.69 m.

DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION F-1			
DRAWN BY	L M ^c B	DATE	Nov. 1976
APPROVED BY		DRAWING NO	SXON 76-0686-ROI
		SCALE	1:50

THICKNESS LITHOLOGY

Centimetres



72	Coal, dull, flakey, soft
30	Mudstone, gray, finely bedded
10	Coal, dull weathered, soft
10	Mudstone, gray-brown, finely bedded
10	Mudstone, carbonaceous
20	Sandstone, finely grained.

TOTAL THICKNESS = 1.12 m.

DENISON COAL LIMITED
(COAL DIVISION)
 CALGARY ALBERTA



1976 SAXON
 TRENCH SECTION F-2

DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-ROI	

ROCK COAL

THICKNESS LITHOLOGY

Centimetres

Description

102 Mudstone, carb., gray-brown, friable, soft.

893 Coal, weathered

8.93

0 8.93

Gray carb. mudstone base, friable, soft

TOTAL THICKNESS = 8.93 m.

DENISON COAL LIMITED
COAL DIVISION
CALGARY ALBERTA

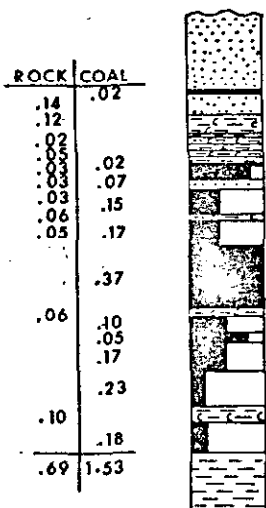


1976 SAXON
TRENCH SECTION F-4

DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-ROI	

-THICKNESS LITHOLOGY

Centimetres



TOTAL THICKNESS = 2.22m

Description

- Sandstone, orange, carb.; med.-fine grained.
- 2 Coal, vitrain, shiny, cubic cleavage
- 14 Siltstone, calcareous, dark gray.
- 12 Mudstone, carb., friable, dark-gray (2 thin vitrain bands - approximately 0.5mc).
- 2 Mudstone, carb.; light brown.
- 5 Mudstone, carb., friable, dark gray
- 3 Mudstone, carb.; light brown.
- 3 Mudstone, carb., light gray, friable.
- 3 Mudstone, carb., dark-gray, limonite stains.
- 2 Coal, dull, cubic cleavage, hard.
- 7 Coal, bright, hard, cubic cleavage
- 6 Siltstone, carb., med-dk. gray, small s'ist. interbeds.
- 15 Coal, dull-bright, hard, cubic cleavage.
- 5 Mudstone, carb., dark gray, friable.
- 17 Coal, dull-bright, hard, cubic cleavage.
- 37 Coal, vitrain, large cubic cleavage
- 6 Mudstone, carb., dark gray, friable.
- 10 Coal, dull-bright, flakey
- 5 Coal, bright with dull bands, cubic cleavage
- 5 Coal, bright with dull bands, cubic cleavage
- 17 Coal, dull-bright, flakey, conchoidal fractures. Resembles slickensides.
- 23 Coal, dull, hard, cubic cleavage.
- 10 Mudstone, massive, dark gray, carb.
- 18 Coal, dull, oxidized.

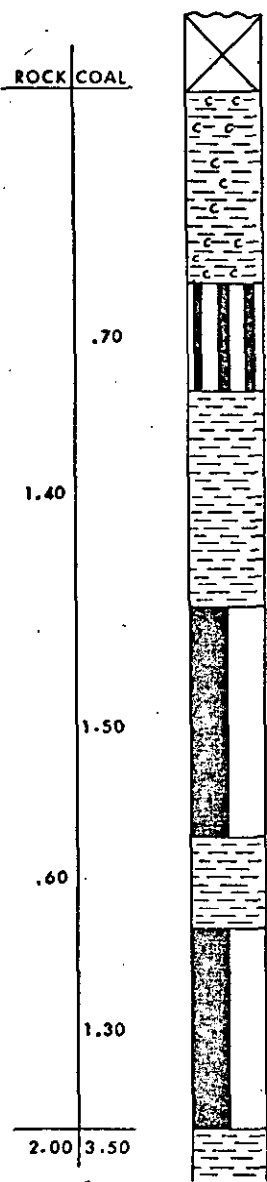
Mudstone base carb., dark gray friable.

DIP = 46°N
 STRIKE = 124°

DENISON COAL LIMITED			
COAL DIVISION			
CALGARY	ALBERTA		
1976 SAXON TRENCH SECTION F-5			
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50	
APPROVED BY	DRAWING NO SXON 76-0686-ROI		

THICKNESS LITHOLOGY

Centimetres



125 Carbonaceous mudstone, gray-black

70 Coal, oxidized, soft, crumbly.

140 Mudstone, medium to finely bedded (2.5cm)

150 Coal, dull-bright, breaks into cubes (approximately 1 - 2 in. thick)

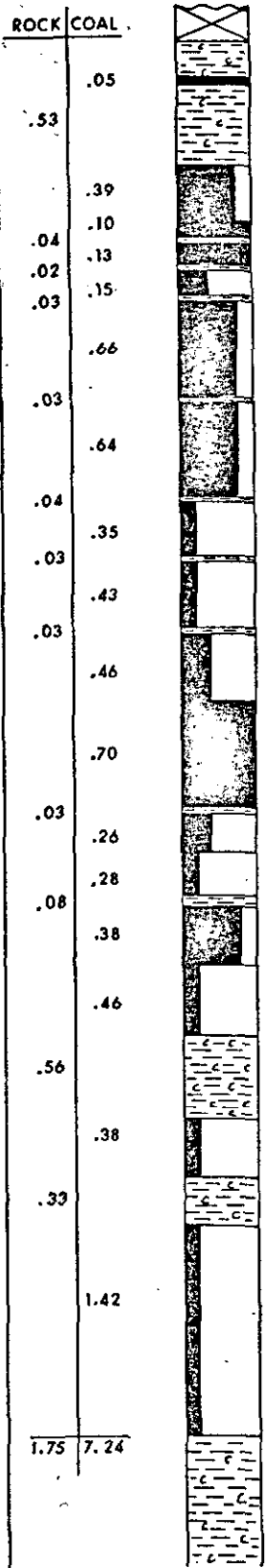
60 Mudstone, massively bedded, very resistant (fractures 14m from top of trench).

130 Coal, dull - bright, breaks into cubes.

TOTAL THICKNESS = 5.50 m

1 cm = 0.50m.

DENISON COAL LIMITED		
CALGARY ALBERTA		
1976 SAXON TRENCH SECTION G - 1		
DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO. SXON 76-0686-ROI	



.....
THICKNESS LITHOLOGY

 Centimetres

- 25 Mudstone, carb., gray-brown, blocky
- 5 Coal, bright, brittle, hard
- 53 Mudstone, brown, slightly friable, carb. beds approx. 1 cm.
- 39 Coal, 80% bright bands, blocky cleavage, brittle
- 10 Vitrain band, hard, uniform bands
- 4 Mudstone, green-brown, finely bedded
- 13 Vitrain band
- 2 Mudstone, green-brown, finely bedded
- 15 Coal, dull-bright, cleaves into blocks - 1 cm
- 3 Mudstone, green, brown, finely bedded
- 66 Coal, 65% bright bands, blocky cleavage, hard mudstone, green-brown, finely bedded.
- 3 Mudstone, green-brown, finely bedded.
- 64 Coal, bright-dull, blocky cleavages.
- 4 Mudstone, green-brown, finely bedded
- 35 Coal, dull, flakey, partly weathered
- 3 Mudstone, green-brown, finely bedded
- 43 Coal, dull, hard, irregular cleavage
- 3 Mudstone, green-brown, finely bedded
- 46 Coal, dull, hard, massive
- 70 Coal, 95% bright, flakey, brittle
- 3 Mudstone, green-brown, finely bedded
- 26 Coal, dull-bright, flakey
- 28 Coal, dull, hard, blocky cleavage
- 8 Mudstone, green-brown, finely bedded
- 38 Coal, 65% bright bands, blocky cleavages
- 46 Coal, dull, flakey, partly weathered.
- 56 Mudstone, gray-brown, carb. friable.
- 38 Coal, dull, flakey, partly weathered
- 33 Mudstone, light brown, friable, carb.
- 142 Coal, dull, hard, oxidized

TOTAL THICKNESS = 8.99 m

DENISON COAL LIMITED		
(COAL DIVISION) CALGARY ALBERTA		
1976 SAXON TRENCH SECTION G-2		
DRAWN BY L MFB	DATE Nov. 1976	SCALE 1:50
APPROVED BY		DRAWING NO SXON 76 - 0686 - ROI

THICKNESS LITHOLOGY

Centimetres

DESCRIPTION

ROCK	COAL
	.13
0	.13



TOTAL THICKNESS = 0.13 m

- 42 Mudstone, carb., brown, beds - 1 cm thick
- 18 Mudstone, carb., gray, friable.
- 13 Coal, dull, soft, flakey
- Mudstone, brown, carb. friable.

DENISON COAL LIMITED
ICDAL DIVISION

CALGARY

ALBERTA



1976 SAXON
 TRENCH SECTION G-3

DRAWN BY L M^cB

DATE Nov. 1976

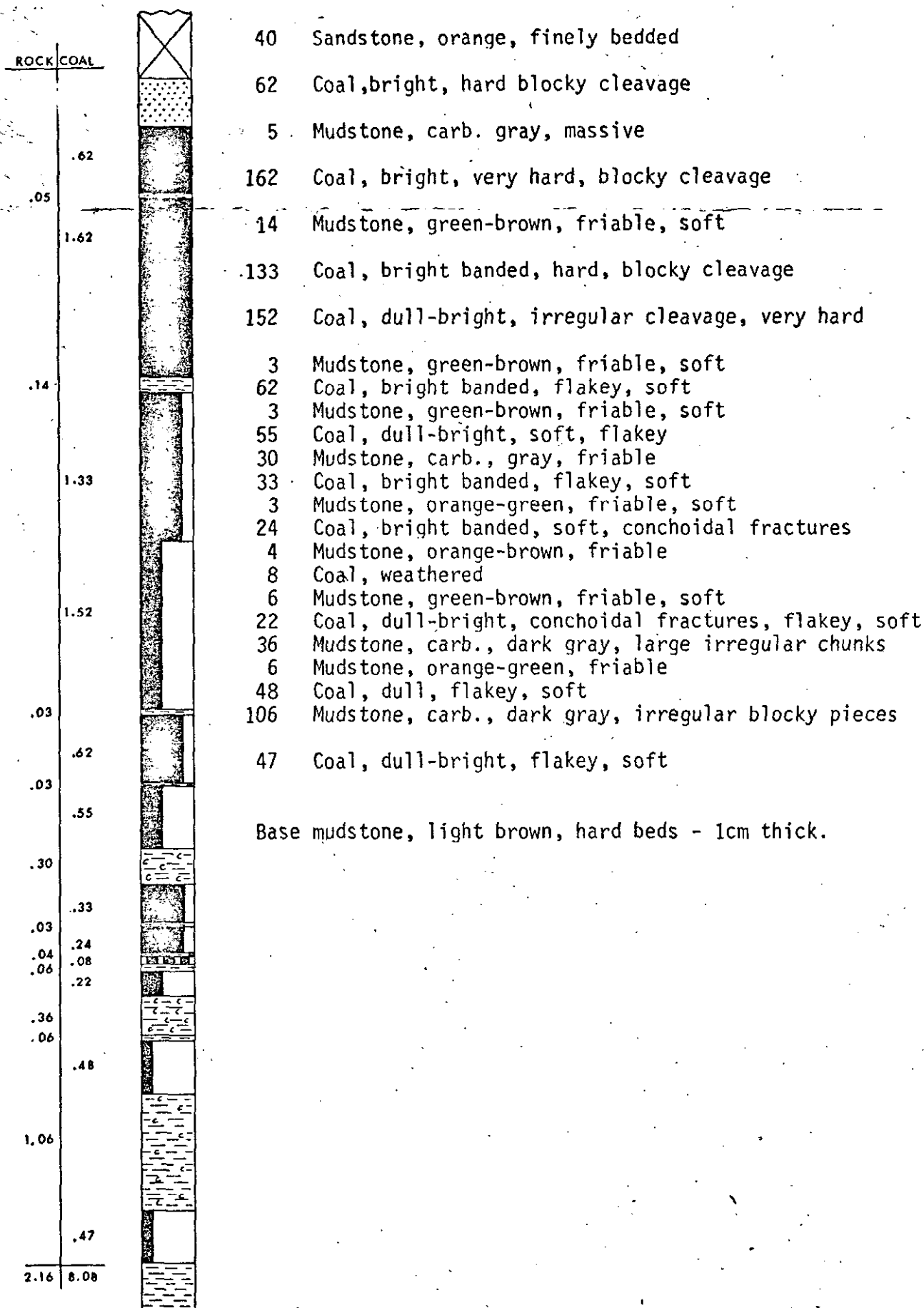
SCALE 1:50

APPROVED BY

DRAWING NO SXON 76-0686-ROI

THICKNESS LITHOLOGY

Centimetres



TOTAL THICKNESS = 10.24 m.

DENISON COAL LIMITED
(COAL DIVISION)
 CALGARY ALBERTA



1976 SAXON
 TRENCH SECTION G-4

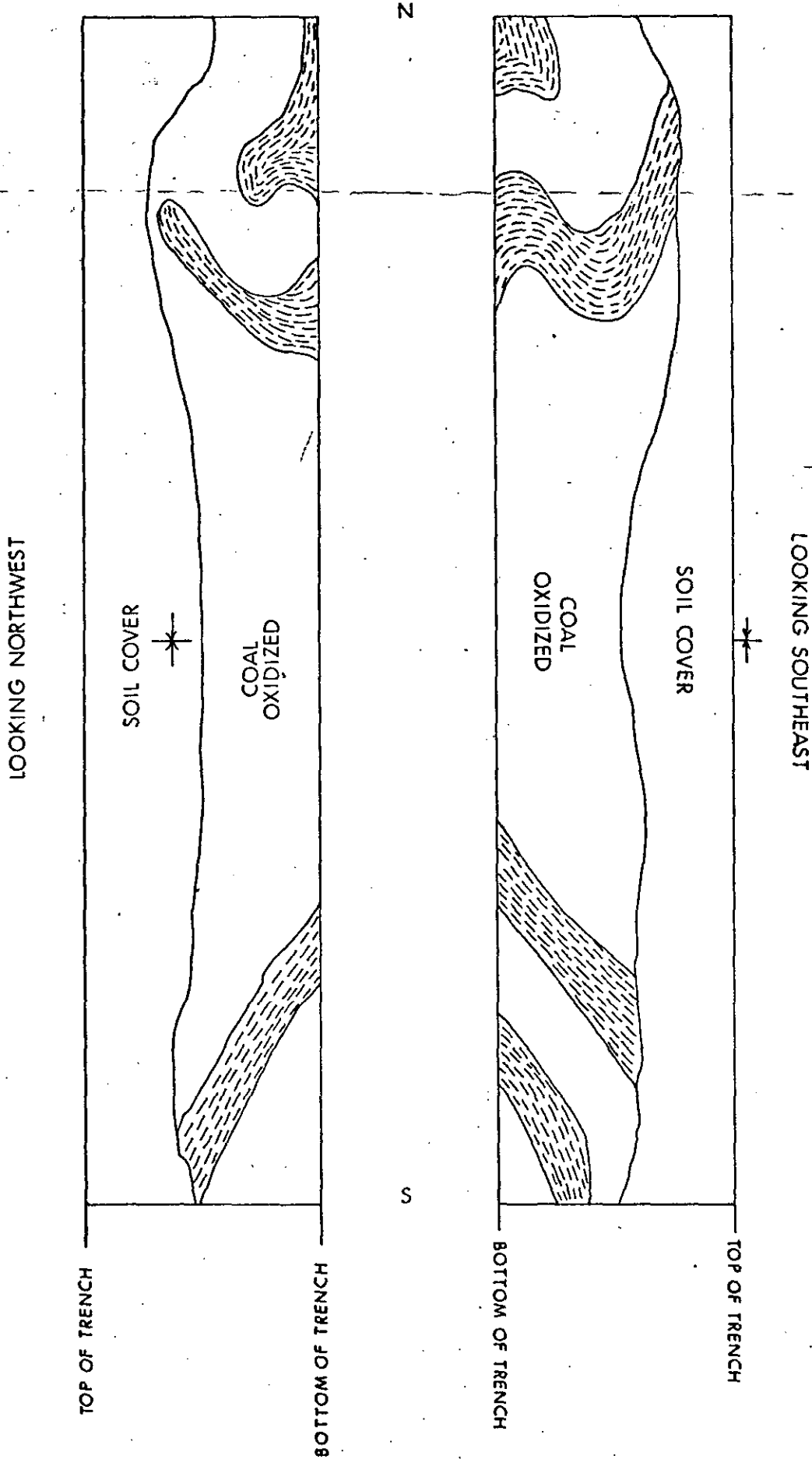
SCALE: L MCB DATE: Nov. 1976 SCALE: 1:50

THICKNESS . LITHOLOGY

Centimetres

SYNCLINAL AXIS

SCALE 1:25



DENISON COAL LIMITED
CALGARY ALBERTA



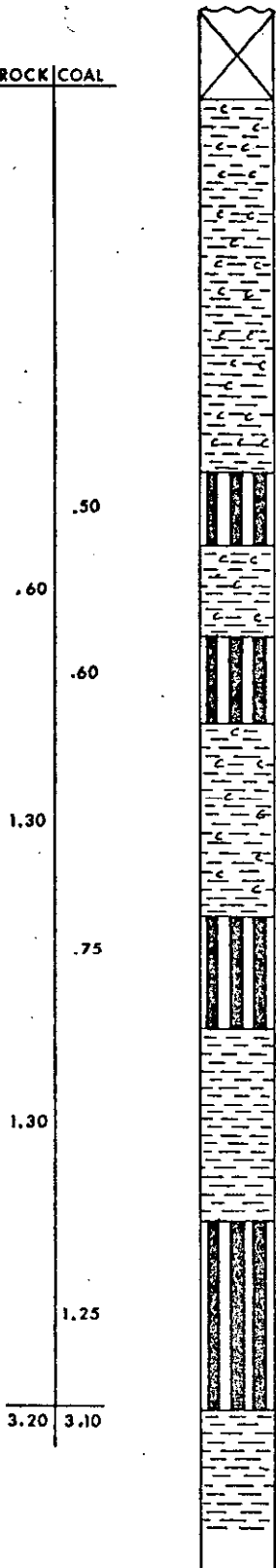
1976 SAXON
TRENCH SECTION G - 5

DRAWN BY LMCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO. SXON 76-0686-RO1	

THICKNESS LITHOLOGY

Centimetres

ROCK | COAL



250 Carbonaceous mudstone, finely bedded (0.5cm)
dark gray-black

50 Coal, oxidized - soft, crumbly

60 Carbonaceous mudstone, finely bedded (0.5cm)
gray-black

60 Coal, oxidized - soft, crumbly

130 Carbonaceous mudstone, finely bedded (0.5cm)
gray-black

75 Coal, oxidized - soft, crumbly

130 Mudstone, gray and brown interbedded poorly defined
bedding planes

125 Coal, oxidized, - soft, crumbly

Mudstone base

TOTAL THICKNESS 6.30 m

DENISON COAL LIMITED
(COAL DIVISION)
CALGARY ALBERTA



1976 SAXON
TRENCH SECTION H-1

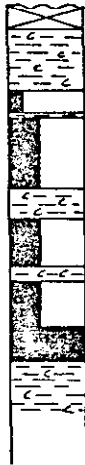
DRAWN BY L.M.C.B	DATE Nov. 1976	SCALE 1:50
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APPROVED BY	DRAWING NO SXON 76-0686-RO1
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THICKNESS LITHOLOGY

Centimetres


ROCK	COAL
.03	.15
	.46
.20	
	.28
.12	
	.28
	.22
0.35	1.39



CM	Description
41	Mudstone, Grey, Carb, Irregular Blocky Cleavage
15	Coal, Dull, Soft, Flakey
3	Mudstone, Carb, Grey-Brown, Friable, Soft
46	Coal, Dull-Bright, Hard, Cubic Cleavage
20	Mudstone, Carb, Grey, Irregular Cleavage, Slightly Friable
28	Coal, Dull Bright, Hard, Irregular Cleavage
12	Mudstone, Carb, Grey, Blocky Cleavage
28	Coal, Dull-Bright, Flakey, Soft
22	Coal, Bright, Hard, Cubic Cleavage
	Base, Mudstone, Carb, Grey, Friable

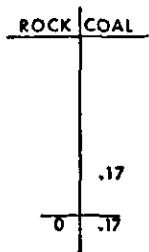
TOTAL THICKNESS = 1.74 m.

STRIKE 175⁰
DIP 10⁰ W

DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION H-2			
DRAWN BY	LMSB	DATE	Nov. 1976
APPROVED BY		SCALE	1:50
		DRAWING NO	SXON 76-0686-ROI

THICKNESS LITHOLOGY

Centimetres



CM	Description
53	Siltstone, Orange
8	Mudstone, Green-Brown, Friable, Carb
14	Mudstone, Carb, Grey-Black, Friable
17	Coal, Dull, Flakey, Soft
12	Mudstone, Carb, Grey-Brown, Friable
	Siltstone, Orange Base

TOTAL THICKNESS = 0.17 m

STRIKE 115°
DIP 34°E


DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION H-3			
DRAWN BY	L MFB	DATE	Nov. 1976
APPROVED BY		SCALE	1:50
		DRAWING NO	SXON 76-0686-RO1

THICKNESS LITHOLOGY

Centimetres

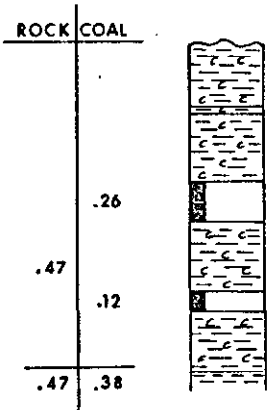
ROCK	COAL	CM	Description
		112	Mudstone, Carb, Grey-Brown, Irregular Cleavage
		7	Mudstone, Carb, Soft, Finely Bedded
		5	Mudstone, Brown-Grey, Iron Stains, Blocky Cleavage, Carb
	.27	20	Mudstone, Carb, Grey, Blocky Cleavage
.30		4	Mudstone, Green-Brown, Soft, Friable
		6	Mudstone, Black, Carb, Soft, Friable
	.86	27	Coal, Dull-Bright, Cubic Cleavage, Finely Bedded,
		30	Mudstone, Dark Grey-Black, Carb, Blocky Cleavage
	.06	86	Coal, Dull-Bright, Soft, Flakey
	.18	6	Vitrain Band
.30	1.37	18	Coal, Dull-Bright, Flakey, Soft
		Base	Mudstone, Carb, Dark Grey, Hard, Friable

TOTAL THICKNESS = 1.67 m.

DENISON COAL LIMITED			
(COAL DIVISION)			
CALGARY	ALBERTA		
1976 SAXON TRENCH SECTION H-4			
DRAWN BY L MFB	DATE Nov. 1976	SCALE 1:50	
APPROVED BY	DRAWING NO SXON 76-0686-ROI		

THICKNESS LITHOLOGY

Centimetres



- 40 Mudstone gray carb., friable, soft and flakey
- 5 Orange-brown mudstone carb., friable, almost granular
- 42 Mudstone gray carb., friable, soft and flakey
- 26 Coal - dull, flakey and soft
- 47 Mudstone. gray, carb., friable, soft and flakey
- 12 Coal - dull, flakey and soft
- 43 Mudstone gray, carb., flakey and soft

TOTAL THICKNESS = 0.85 m

DENISON COAL LIMITED
(COAL DIVISION)
 CALGARY ALBERTA

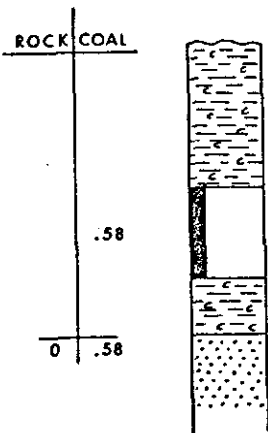


1976 SAXON
 TRENCH SECTION H-5

DRAWN BY L M ^c B	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76-0686-RO1	

THICKNESS LITHOLOGY

Centimetres



- 91 Mudstone, carb., gray-brown, soft, friable
- 58 Coal, dull, soft, flakey
- 36 Mudstone, carb., gray-brown, soft, friable
- Base Sandstone, orange, massive

TOTAL THICKNESS = 0.58 m

DENISON COAL LIMITED <small>COAL DIVISION</small>			
<small>CALGARY</small>		<small>ALBERTA</small>	
1976 SAXON TRENCH SECTION H-6			
<small>DRAWN BY</small> L M ^c B	<small>DATE</small> Nov. 1976	<small>SCALE</small> 1:50	
<small>APPROVED BY</small>		<small>DRAWING NO</small> SXON 76-0686-ROI	

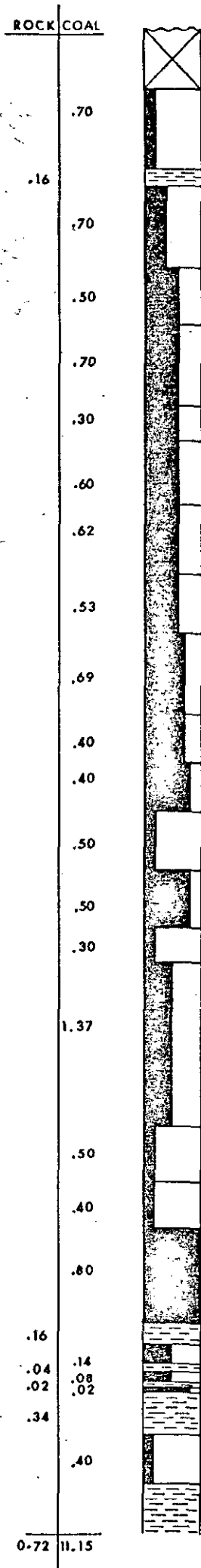
THICKNESS LITHOLOGY

Centimetres

Below air target #26, Number 9 seam

Outcrop - S.S.; reddish brown, coarse grained; chert and quartz grains; calc. cement; lim. stain, carb. specks; bedding present

$\frac{120^{\circ}}{20^{\circ}}$




- 50 Top soil, oxidized coal
- 70 Coal; some vitrain bands seen
- 16 Mudstone; dark gray; weathers reddish brown; carb. plant remains
- 70 Coal; hard; dull with shiny bands(?); approx. 40% shine; water starts seeping here
- 50 Coal; A.b., 50-60% shine
- 70 Coal; A.b.
- 30 Coal; A.b.
- 60 Coal; A.b.
- 62 Coal; A.b.; - more vitrain present(?)
- 53 Coal; A.b.
- 69 Coal; vitrain approx. 70%
- 40 Coal; A.b.
- 40 Coal; vitrain; - 90% bright; breaks into blocks
- 50 Coal; dull;
- 50 Coal; vitrain, 90% bright; breaks into blocks; laminated,
- 30 Coal; dull; looks powdery
- 137 Coal; bright - 50%; breaks into blocks

- 50 Coal; dull powdery
- 40 Coal; hard; breaks into cubes - blocks; slicken slides present in abundance.
- 80 Coal; flaky but with 90% bright appearance; breaks into cubes, laminated.
- 16 Mudstone; dark gray, weathers reddish brown, massive, highly carb.; laminated.
- 14 Coal; 50% shine; breaks into cubes and blocks. $\frac{136^{\circ}}{24^{\circ}}$
- 4 Mudstone; A.b.
- 8 Coal; A.b.
- 2 Mudstone; dark gray; carboneous
- 2 Coal; 90% bright; breaks into cubes
- 34 Mudstone; dark gray; weathers reddish brown; carb. plant remains
- 40 Coal; flaky; soft; dull

Bottom mudstone; medium - dark gray; carb; friable


TOTAL THICKNESS = 11.87m

DENISON COAL LIMITED		
<small>(COAL DIVISION)</small>		
<small>CALGARY</small>	<small>ALBERTA</small>	
1976 SAXON TRENCH SECTION I-1		
<small>DRAWN BY</small> L MCB	<small>DATE</small> Nov. 1976	<small>SCALE</small> 1:50

THICKNESS LITHOLOGY
Centimetres

ROCK COAL	CM	Description
	224	Mudstone, Carb, Gray-Brown, Soft, Irregular Cleavage
.04	4	Coal, Dull-Bright, Blocky Cleavage
.38	38	Mudstone, Carb, Gray-Brown, Soft, Irregular Cleavage
.56	56	Coal, Dull-Bright, Soft, Flakey
.20	20	Mudstone, Carb, Gray-Brown, Soft, Irregular Cleavage
.09		
.35	9	Mudstone, Sillicious, Iron Stains, Extremely Hard
.02	35	Coal, Dull, Blocky Cleavage, Hard
.44	2	Mudstone, Greey-Brown, Friable
.25	44	Coal, Dull, Hard, Blocky Cleavage
.20	25	Coal, Bright, Cubic Cleavages, (Small), Hard
.24	20	Coal, Dull, Soft, Flakey
.24	24	Coal, Dull, Blocky Cleavage, Hard
.24	24	Coal, Bright, Hard, Cubic Cleavage, (Small)
.22	22	Coal, Dull-Bright, Flakey, Soft
.23	23	Coal, Dull, Hard, Blocky Cleavage
.03	3	Mudstone, Green-Brown, Friable
.27	26	Coal, Dull, Hard, Blocky Cleavage
.33	33	Coal, Dull-Bright, Hard, Blocky Cleavage
.18	18	Coal, Bright, Thin Bands, Cubic Cleavage
.29	29	Coal, Dull, Hard, Blocky Cleavage
.05	5	Mudstone, Green-Brown, Friable
.40	40	Coal, Dull, Soft, Flakey
.04	4	Mudstone, Green-Brown, Friable
.86	86	Coal, Dull, Soft, Flakey
.14	14	Mudstone, Carb, Grey, Friable
.51	51	Coal, Dull, Soft, Flakey
.95	5.61	
	332	Covered by Scree
	Base	Grey, Carb, Mudstone, Friable

TOTAL THICKNESS = 6.56 m
3.32 covered


DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
<small>CALGARY</small>		<small>ALBERTA</small>	
1976 SAXON TRENCH SECTION I-2			
<small>DRAWN BY</small> L MCB	<small>DATE</small> Nov. 1976	<small>SCALE</small> 1:50	
<small>APPROVED BY</small>	<small>DRAWING NO</small> SXON 76-0686-RO1		

THICKNESS LITHOLOGY

Centimetres

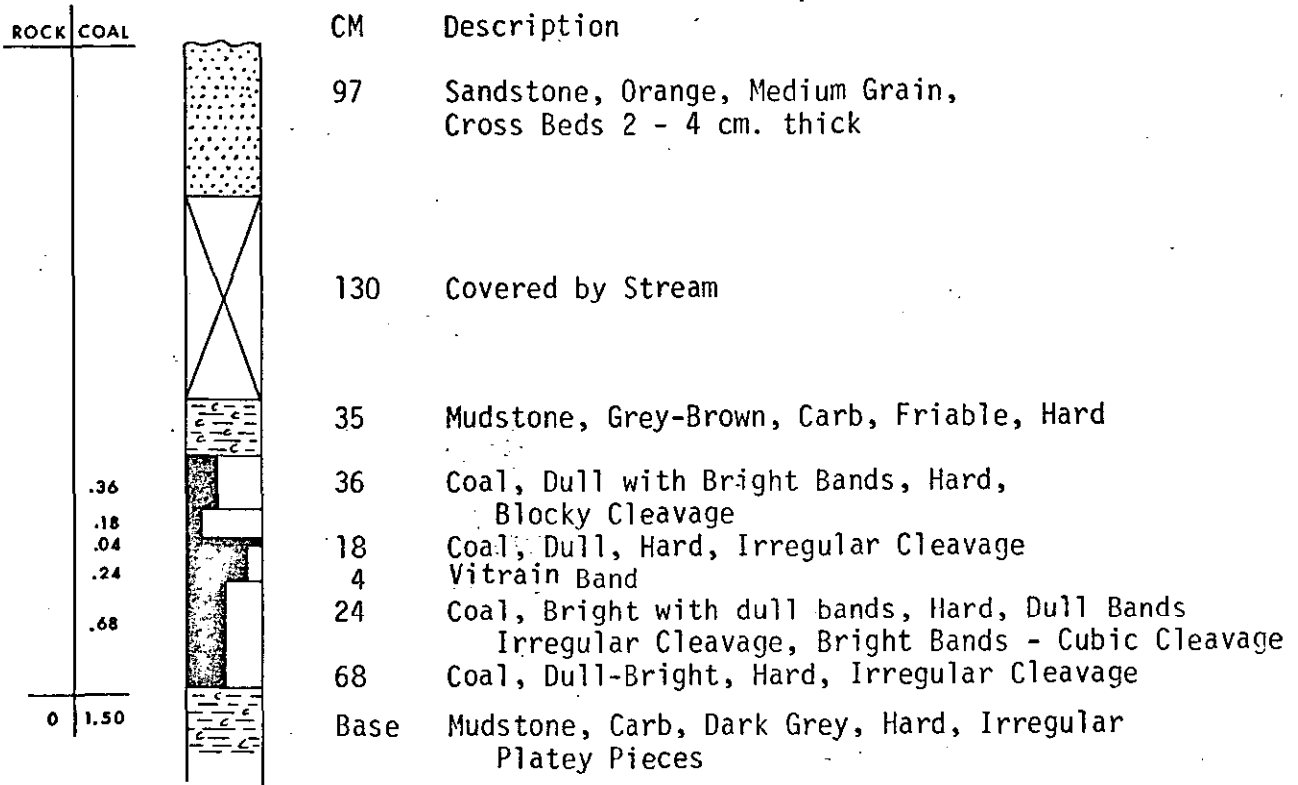
ROCK	COAL	CM	Description
		15	Mudstone, Orange, Massively bedded
	.49	11	Mudstone, Grey, Carb, Friable, Soft, Finely bedded
		49	Coal, Dull-Bright, Hard, Blocky Cleavage
.05		5	Mudstone, Carb, Soft, Friable
	.16	16	Coal, Bright with Dull bands, Hard, Blocky Cleavage
.39		39	Mudstone, Grey, Carb, Hard, Blocky
.13		13	Mudstone, Grey, Carb, Soft, Flakey
	.74	74	Coal, Dull, Irregular Cleavage, Soft
		510	Coal, Weathered
5.10			
		39	Mudstone, Grey, Flakey, Soft
.39		28	Coal, Dull, Flakey, Soft
	.28	30	Mudstone, Carb, Gray, Platey
.96	6.77	Base	Mudstone, Grey-Brown, Blocky, Hard

TOTAL THICKNESS = 7.73 m

DENISON COAL LIMITED			
COAL DIVISION			
CALGARY	ALBERTA		
1976. SAXON TRENCH SECTION J-1			
DRAWN BY L M ^{CB}	DATE Nov. 1976	SCALE 1:50	
APPROVED BY	DRAWING NO SXON 76-0686-RO1		


THICKNESS LITHOLOGY

Centimetres



TOTAL THICKNESS = 1.50 m.

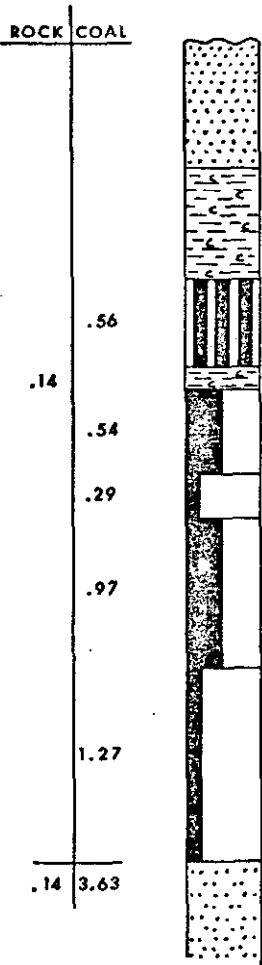
STRIKE 170°
DIP 50°W

DENISON COAL LIMITED <small>(COAL DIVISION)</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION J-2			
DRAWN BY	L M ^c B	DATE	Nov. 1976
APPROVED BY		SCALE	1:50
		DRAWING NO.	SXON 76 - 0686 - RO1

THICKNESS LITHOLOGY


Centimetres

ROCK COAL



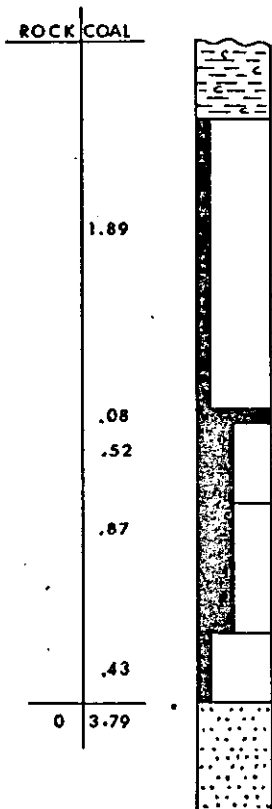
CM	Description
83	Sandstone, Oragne, Med. Grained, Finely Bedded Cross Beds 2 - 6 cm.
72	Mudstone, Grey, Carb, Friable, Hard
56	Coal, Weathered
14	Mudstone, Grey, Carb, Friable, Soft, Iron Oxide stains along cleavages
54	Coal, Dull-Bright, Hard, Irregular Cleavage
29	Coal, Dull, Hard, Irregular Cleavage
97	Coal, Dull-Bright, Hard, Irregular Cleavage
127	Coal, Dull, Soft and Hard Sections, Blocky Cleavage
Base	Siltstone, Massively Bedded (approx. 20 cm) Dark Grey, Carb

TOTAL THICKNESS = 3.77 m.

DENISON COAL LIMITED		
<small>(COAL DIVISION)</small>		
<small>CALGARY</small>	<small>ALBERTA</small>	
<h2 style="margin: 0;">1976 SAXON</h2> <h3 style="margin: 0;">TRENCH SECTION J-3</h3>		
<small>DRAWN BY</small> L MFB	<small>DATE</small> Nov. 1976	<small>SCALE</small> 1:50
<small>APPROVED BY</small>		<small>EXPOSURE NO</small> SXON 76-0686-RO1

THICKNESS LITHOLOGY

Centimetres



- 47 Mudstone, carb.; friable; gray with orange-yellow iron stains
- 189 Coal, soft, dull with orange-red iron stains along cleavages.
- 8 Vitrain band
- 52 Coal, dull-bright, hard, irregular cleavage yellow-orange iron stains along cleavages.
- 87 Coal, dull-bright, hard, irregular cleavage
- 43 Coal, dull, soft, flakey
- Base Siltstone, massively bedded (approx. 20cm) dark gray, carb.

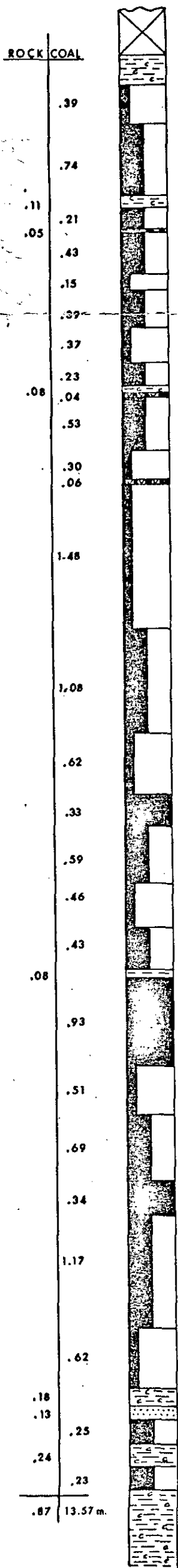
TOTAL THICKNESS = 3.79 m

DENISON COAL LIMITED <small>(COAL DIVISION)</small>		
CALGARY	ALBERTA	
1976 SAXON TRENCH SECTION J-4		
DRAWN BY L MCB	DATE Nov. 1976	SCALE 1:50
APPROVED BY	DRAWING NO SXON 76 - 0686 - ROI	

THICKNESS LITHOLOGY

Centimetres

ROCK COAL

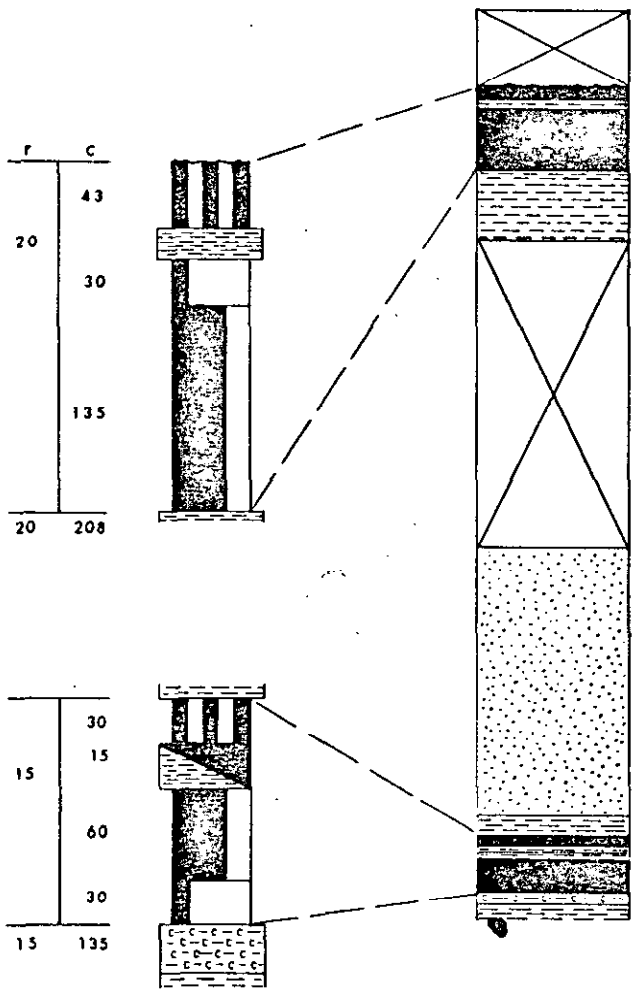


- 29 Mudstone, carb., gray-brown, friable, beds - 1/2cm
- 39 Coal, dull, hard, irregular cleavage
- 74 Coal, dull-bright, hard, cubic cleavages
- 11 Mudstone, carb., gray-brown, friable, soft
- 21 Coal, dull-bright, soft, blocky cleavage
- 5 Mudstone, carb. gray-brown, blocky hard
- 43 Coal, dull-bright, soft, flakey
- 15 Coal, dull, hard, blocky cleavage
- 39 Coal, dull-bright, hard, cubic cleavage
- 37 Coal, dull, hard, blocky cleavage
- 23 Coal, dull-bright, flakey, soft
- 8 Mudstone, gray-brown, carb.; friable, soft
- 4 Vitrain band
- 53 Coal, dull-bright, hard, irregular cleavage
- 30 Coal, dull, soft, flakey
- 6 Vitrain band
- 148 Coal, dull, blocky cleavage, hard
- 108 Coal, dull-bright, irregular cleavage, soft
- 62 Coal, dull, hard, blocky cleavage
- 33 Coal, bright, hard, irregular cleavage
- 59 Coal, dull-bright, hard, cubic cleavage
- 46 Coal, dull, soft, irregular cleavage
- 43 Coal, dull-bright, soft, flakey
- 8 Mudstone, carb., gray-brown, friable, soft
- 93 Coal, bright, irregular cleavage, med. hard.
- 51 Coal, dull, hard, cubic cleavage
- 69 Coal, dull-bright, irregular cleavage, med. hard.
- 34 Coal, bright, hard, small cubic cleavages
- 117 Coal, dull-bright, soft, flakey
- 62 Coal, dull, hard, blocky cleavage
- 18 Mudstone, carb., dark gray, hard, blocky pieces, Beds - 1cm thick.
- 13 Sandstone, orange, med. grained, massively bedded.
- 25 Coal, dull-bright, flakey, soft
- 24 Mudstone, carb., dark gray, friable, soft.
- 23 Coal, dull-bright, irregular cleavage, med. hard
- Base Mudstone, carb., gray, blocky cleavage, hard..

Strike = 142°
Dip = 35°W

TOTAL THICKNESS = 14.44 m

DENISON COAL LIMITED <small>IF O&C DIVISION</small>			
CALGARY		ALBERTA	
1976 SAXON TRENCH SECTION K-1			
DRAWN BY LMCB	DATE Nov. 1976	SCALE 1:50	
APPROVED BY	DRAWING NO SXON 76 - 0686 - ROI		



TRENCHES
SW - 1, 2, 3

TRENCHES
SW - 4, 5

NO.	DESCRIPTION	BY	DATE
R E V I S I O N S			
SAXON COAL LIMITED			
PREP'D BY: DENISON COAL LIMITED			
SAXON WEST			
COMPOSITE TRENCH SECTION N			
DRAWN BY: D. W.	DATE: DEC. 29/76	SCALE: 1:50 / 1:200	
PREP'D BY: S. P. S.	DATE: DEC. 29/76	DRAWING NUMBER:	
APPR'D BY:	DATE:	SXON 76-0718 -R01	