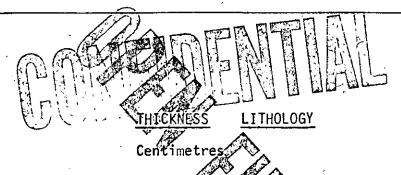


GEGLOCICAL BRANCH ASSESSMENT PERORT

00 627



Soil and broken siltstoned locks

Gray siltstone (probably slumped)

Mixture of coal powder and grit, mud and small siltstone blocks

Oxidized, powdery-gritty coal

6 cm. interval

dark gray mudstone, weath. yellow, brown N35E, 15 NW Coal 80% bright w/dull bands; 1 cm. tk. vitrain every

Carbonaceous mudstone 14

coal oxidized

10

Coal 30% bright; dull banded w/ 2 cm. tk. vitrain 80 band below mudstone

dark gray mudstone, exfoliated, weath. yellowish, FeO 10 stained

15 mudstone as above

Coal 70% bright w/ dull bands 65

105 Coal 90% bright w/ 1 cm. tk. vitrain bands at every 5 cm. interval; base has water seeping through

15 grayish mudstone dull coal w/shale intercalations 8

grayish mudstone 14

dull coal, oxidized, crumbly 6 28 gray indurated siltstone

Massive gray to brownish gray medium grained sandstone

TOTAL THICKNESS = 4,19 m.

ROCK COAL

.08

.14

.10

. 15

.15

.14

.16

,53

.80

.10

.65

1.05

.08

.06

.76 3-43

DENISON COAL BIVIS LIMITED - CALGARY

> 1976 SAXON TRENCH SECTION A - 1

L MCB 1:50 ME Nov. 1976 DELIVERE TO SXON 76 - 0686 - ROI APPROVED BY

Centimetres

		·
		Rubble
ROCK COAL		Coal, grit and powder w/mud mudstone Mixture of mud, coal, grit and powder, mudstone blocks
.80	10	Coal oxidized
	80	Coal dull, soft
1.15	115	Coal dull and bright, in part blocky
.35	35	Coal 80% bright w/ 1 cm. tk. vitrain bands at ± 5cm. interval
.85	85	Coal 60% bright w/ dull bands and vitrain bands at ± 10 cm. interval
0 3.25		Gray to brownish gray mudstone
		•

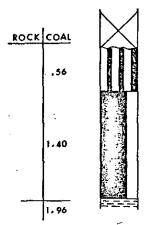
TOTAL THICKNESS = 3.25 m.



1976 SAXON TRENCH SECTION A-2

MANNET LMCB	ME Nov. 1976	scat 1:50
UPPOVED BY	DRAWING NO SXON 76	- 0686 - ROI

Centimetres



Rubble of mud, coal grit and powder, blocks

56 Coal, crumbly, oxidized

140 Coal 70% bright, blocky

Mudstone N38E. 20⁰ NW

TOTAL THICKNESS = 1.96 m.

DENISON COAL DIVISION LIMITED

CALGARY

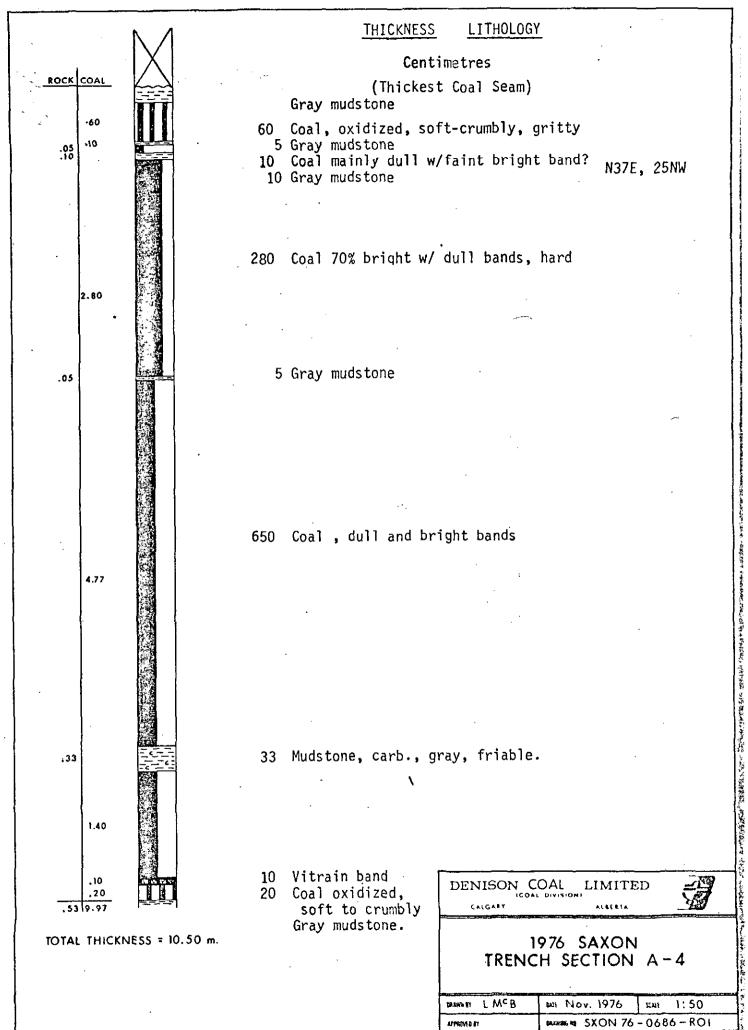


1976 SAXON TRENCH SECTION A-3

MANNEY LMCB

ME Nov. 1976

PROPERTY SXON 76 - 0686 - ROL



LITHOLOGY THICKNESS

Centimetres

		~~		
		Λ	40	powdery-gritty coaly material
		1 X I	25	coal oxidized, soft, crumbly
ROCK	COAL		71	coal 60% bright (as 1-2 cm tk. vitrain bands 8 cm apart)
			50	coal bright
	.25			6 cm tk mudstone - N16W, 20 NE
	.71			mudstone
ţ	.50		8 cm	vitrain band mudstone vitrain band
•				mudstone
-06 -05 -08 -15	-08 -05 -02		20 cm	<pre>coal 70% bright w/ 1-2 cm tk. vitrain bands 5 cm apart and some mudstone inclusions</pre>
	.20			mudstone base
.34	1.81	harara 1		

TOTAL THICKNESS = 2.15 m.

Coal Section 2.15

DENISON COAL DIVISIONS LIMITED CALGARY ALSERTA

> 1976 SAXON TRENCH SECTION A - 5

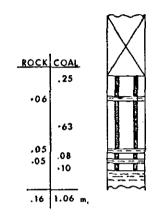
DRAWEST LMCB Mi Nov. 1976 MAR 1:50

APPROVED BY

DIANTING 80 SXON 76 - 0686 - RO1

LITHOLOGY THICKNESS

Centimetres



TOTAL THICKNESS = 1.17m

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

11⁰W 0100

DENISON COAL LIMITED CALGARY

1976 SAXON TRENCH SECTION A-6

L MCB ME Nov. 1976

FILEDAÍ D'EA MANNESS SXON 76-0686-ROI

Centimetres

·. 1	ı	_	_	- w 	_
ROCK	COAL		2		
	.66				
				4	
.43				릐	
	-25				
.43	.91				

TOTAL THICKNESS = 1.34 m.

66	(0.51)	noudo

Top of surfaces

66 Coal; powdery

Mdst; reddish brown; carb.; friable Coal; cubic break cleavage, oxid.

Mudstone; reddish brown; highly carb; friable; coal stringers - 1 cm;

 $\frac{10^{0} \text{ W}}{020^{0}}$

DENISON COAL LIMITED

CALGARY

ALBERTA :

1976 SAXON TRENCH SECTION A - 7

DRAWN SY L MCB DAIE NOV. 1976 SCALE 1:50

Centimetres

ROCK	COAL	
	-089	70.25
	.535	
0	.624 m	

Surface soil; rock

Coal, dull, oxid; powd. 8.9 Coal; vitrain; breaks into cubes, banded; 83.5

cubic breakage or blocky breakage in vitrain bands; 60 - 80% - bright with dull bands.

Mudstone; lt. brown; carb. specks.

TOTAL THICKNESS = 0.624 m

DENISON COAL LIMITED CALGARY



 $\frac{15^{0}\text{W}}{018}$

1976 SAXON TRENCH SECTION A-8

MIN LMCB	DATE 1	Vov.	1976	SCALE	1:50	
POLATI EN	he water	- SY	ON 76	- 040	4 - POI	

THICKNESS

LITHOLOGY

Centimetres

ROCK COAL

Rubble

Dark gray; carbonaceous mudstone;

Coal Oxidized

10

Dark gray carbonaceous mudstone

TOTAL THICKNESS = 0.10 m

DENISON COAL LIMITED

CALGARY



1976 SAXON TRENCH SECTION A - 9

DRAWS BY L MCB SALE NOV. 1976 SCALE 1:50

APPROVED BY DRAWS CO SXON 76 - 0686 - ROI

Centimetres

1 '		
ROCK COAL	73	S.S. Lt. to medium brown; carb. specks; chert and qtz. grains, medium grained; clay matrix/possible limonite cement; sparkles; laminated; massive (outcrop)
0.26 0.21 0.20	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.
1,50	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
0.12 0.12 0.16 0.16	21	abundant. Coal; dull laminated; powdery; breaks into cubes; grades up to a harder texture - dense; thin vitrain laminations at top.
0.12		Mudstone; dkgy (moist) - dk brown (dry)
1.95		Note: The following portion of the trench was unable to be followed all the way up to the above portion of the trench.
		Soil
	V \ 12	Mdst; very fine; eroded;
0.105	16	Mdst; light red brown; breaks into blacks; lam.
0.11	1 12	Coal and mdst. mdst mid. brown - dk grey; carb. specks; friable.
0.98 0.655	(3.45 COVERED)	Note: The following portion of the trench was unable to be followed all the way up to the above
IOIAL IHICI	(NESS = 1.635 m.	Coal; oxid; dull; powdery; very fine mdst - strips

10.5 Coal; oxid; dull; powdery; very fine mdst - strips
11 Mdst; oxid dk brown; carb. specks, friable; coalstringers 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. <u>018⁰</u> Dip <u>15⁰W</u>

CSW/CE

DENISON COAL DIVISION LIMITED

CALGARY A



1976 SAXON
TRENCH SECTION A - 10

DERMINITY L MCB DATE NOV. 1976 SCALE 1:50

Centimetres

ROCK	COAL	
.015 0.04		
.055	.25 m	

TOTAL THICKNESS = 0.305 m

crumbly; friable.

15⁰W 030⁰

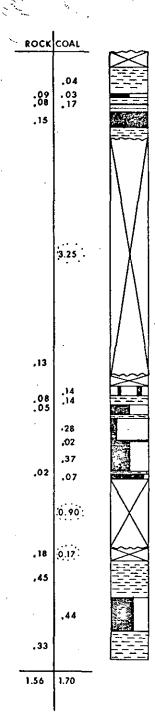
DENISON COAL LIMITED



1976 SAXON TRENCH SECTION A-11

must FWc8	ыц Nov. 1976	ямі 1:50
APPROVED BY	DRAWING NO SXON 76	- 0686 - ROI

Centimetres



TOTAL THICKNESS EXPOSED = 3, 26 m. (COVERED = 4,32 m.) 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. <u>028⁰</u>

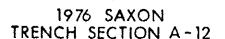
.18 Soil
45 Mudstone; medium gray, carb. specks; friable

44 Coal, vitrain, 40-60% dull bright; oxid; breaks into

.35 Mudstone, reddish brown, massive; solid.

DENISON COAL LIMITED

GART ALBERTA



DANNES LMCB MIL NOV. 1976 SCALE 1:50

APPROVED BY GRANNING ING SXON 76 - 0686 - RO1

Centimetres

ROCK	COAL	
	.05 .05 .10	
0	.24	-

TOTAL THICKNESS = 0.24 m

07 Soil .10 Mdst; dk. gray; carb; oxid.

.04 Coal; oxid; powdery with vitrainstringers; dull 05

Coal; with fine mdst. - stringers .05

Coal; 50% vitrain . 10 Coal; very fine mdst; oxid, friable - crumbly . 04

Mdst; red, brown; carb. specks friable; grades massive

Str. Dip

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

> DENISON COAL DIVISION LIMITED CALGARY

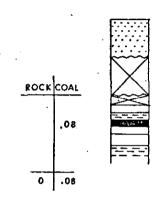
1976 SAXON TRENCH SECTION A - 13

L MCB ME Nov. 1976 XA:t 1:50

APPROVED BY DRAWNE ED SXON 76 - 0686 - ROI

LITHOLOGY THICKNESS

Centimetres



TOTAL THICKNESS = 0.08 m

```
Sandstone: red. brown; quartz - cherty grained; poss.
            lim. cement; clay matrix (?)
            very fine grained; carb. lam.; copper ovid
           noticed (green);
            Str. 0350
                       poss. crossbedding
            Dip
.12
    soil
.09
    clay; light brown
```

09 mdst. and clay, dk brown; carb. stringers

coal; oxid; dull .08 .10 clay; md. brown

01 mdst; . 15 clay;

.03 mdst; carb. dk gray

mdst; red. brown, massive; hard;

str. dip

DENISON COAL LIMITED



1976 SAXON TRENCH SECTION A - 14

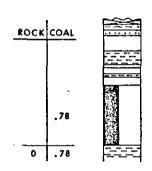
MANAGE LMCB MI Nov. 1976

APPROVED BY

CALGARY

DUMPNE #0 SXON 76 - 0686 - ROI

Centimetres



TOTAL THICKNESS = 0.78 m

Soil 05 Shale; light gray, ironstone nodules, carb. specks, 08 platy, laminated;

.06 Siltstone; light brown; ironstone; laminated 23 Clay; dk. gray, carb.

Mudstone; dry light gray .19

03 Shale; reddish; muscovite mica >

Clay; light brown; carb. 80

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.;

DENISON COAL LIMITED



1976 SAXON TRENCH SECTION A-15

L MCB WI Nov. 1976

1:50

APPROVED BY

MANUE SX SXON 76 - 0686 - ROI

	Black 1	(B)	Centimetres
Rockico	Trench 1B		
.5		?	Soil
	,	∢1 ∞11	Coal; oxid; dull, powdery Coal; dull, hard; no laminations
.10 .11	75 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	. 18	Coal; oxid; bright - 70%; minor laminations, possibly vitrain
1.0	0	100'	Coal; oxid, banded 70% bright - 30% dull, hard, breaks into cubes; vitrain bands.
,05		05	Mudstone; dark gray, carb.; friable
٥		. 98	Coal; oxid; banded; 80% bright; vitrain bands.
.50		?	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).
. 05 2.	37	?	S.S.; ltmedium 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.

DENISON COAL LIMITED



1976 SAXON
TRENCH SECTION B-1

ELENT IN LMCB and Nov. 1976 XML 1:50

APPROYEG BY

DRAMES IN SXON 76 - 0686 - ROI

Centimetres

Block 1 (B)

. Trench 2B

Unable to find Coal Seam Due to depth of overburden.

DENISON COAL LIMITED

kty

ALBERTA



1976 SAXON
TRENCH SECTION B - 2

MARKET LMCB MIE Nov. 1976 SEEL 1:50

APPROVAD I

BONNE NO SXON 76 - 0686 - ROI

LITHOLOGY THICKNESS

Centimetres

Block 1 (B)

43

. 38

.07

.23

Trench 3B

ROCK	COAL	TOP
	.02	
.07	.57	
.07	.38	
.08	,23	
.00	.60	
.50		
.03 .05		
	,27	
0.60	2,07	

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 (?); carboneous material present.

0200

mudstone; reddish brown; friable; carb.; laminations. coal; oxid; vitrain

02 07 mudstone; light in dark gray; highly carb.

.57 coal oxid; breaks into cubes / some blocks; compact; 40% shine.

> coal; oxid, has wet clay appearance, some banding possibly Durain; Vitrain present.

Mudstone; dark reddish yellow and brown; extremely flaky; carb.

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



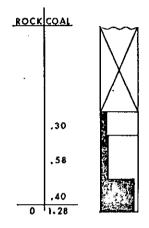
1976 SAXON TRENCH SECTION B-3

bross at FWcB	MII No	v. 1976	SCALE	1:50
APPROVED IN	01.49496 ES	5XON 76	- 06	86 - ROI

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 (?)

TOTAL THICKNESS = 1.28 m

DENISON COAL LIMITED

LY ALBE



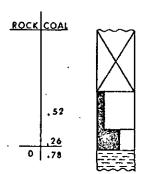
1976 SAXON
TRENCH SECTION B - 4

AWIT LMCB	WE Nov. 1976	ям 1:50
Manual I Iv	Manuscra CYON 76	- 0494 POL

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

36° S.W.

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

38° S.W.

DENISON COAL LIM

CALGARY

LIMITED



1976 SAXON
TRENCH SECTION B - 5

COLUMBIY L. MCB ONE NOV. 1976 SCALE 1:50

APPROVING BY

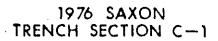
DRAWSE 40 SXON 76 - 0686 - ROI

Centimetres

				QCII O I III Q OI CO	
1)	K~~>1	CM	Description	
ROCK	COAL	\bowtie			
		====	59	Mudstone, carb., gray, large blocky pieces	
		-	60	Coal, dull, flakey, soft	
s		2	*.		
. ~	.60		· 25	Mudstone, carb, gray, blocky pieces	
			· 7	Coal, vitrain band	•
.25	.07	دــــــــــــــــــــــــــــــــــــ			
	,,,,		56	Coal, dull, hard, blocky cleavage	
:	. 56	ğ	· 5 - 5.	Coal oxidized, green-brown, friable	
-		8	17	Coal, dull, hard, blocky cleavage	
. ,	.05 .17		7	Coal, bright with dull bands	
	.05	\$ 500 C	5	Coal oxidized, green-brown, friable	.
	.02 .09	93. ASS. 00	10	Coal, bright with dull bands, soft, flakey	•
	0703 0703		2	Coal oxidized, green-brown, friable	
	.22		9	Coal, bright with dull bands	
	.05		17	Coal, dull, blocky cleavage, hard	
	.16 .05 .28		3	Coal oxidized, green-brown, friable	.*
	. 05		7	Coal, bright with dull bands, soft, flakey	
	.19		3	Coal oxidized, green-brown, friable	
•	.39	Ŷ	22	Coal, dull-bright, blocky cleavage, hard	
	.05		5	Coal oxidized, green-brown, friable	
			16	Coal, dull-bright, blocky cleavage, hard	
	.41		5	Coal oxidized, green-brown, friable	
	.10 .03		. 28	Coal, dull-bright, blocky, hard	•
	.30		5	Coal oxidized, green-brown, friable	
	. 05		19		
	.52			Coal, dull-bright, blocky, hard	
	.05		39	Coal, dull, soft, flakey	
	.27		5	Coal oxidized, green-brown, friable	
	.05	16-28 1-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	41	Coal, dull-bright, irregular cleavages	
	ł		10	Coal, dull, hard, blocky cleavages	
	ļ		3	Mudstone, green-brown, friable	
-	1.04		30	Coal, dull-bright, soft, irregular cleavage	
	ł		5	Coal oxidized, green-brown, friable	
	.07		52	Coal, dull-bright, irregular cleavage, soft	
	.26		5 -	Coal oxidized, green-brown, friable	
	.05	203	27	Coal, dull-bright, irregular cleavage, soft	
	.33		5	Coal oxidized, green-brown, friable	
	.05	3-A3	104	Coal, dull-bright, hard, blocky cleavage	
	.46		7	Coal oxidized, green-brown, friable	
.03]	29	26	Coal, dull-bright, soft, flakey	
	.41	ž ž	5	Coal oxidized, green-brown, friable	
	.07		33	Coal, dull-bright, soft, flakey	
	.36		5	Coal oxidized, green-brown, friable	
	.05	4 ,	46	Coal, dull-bright, hard, blocky cleavage	
-	.25		3	Mudstone, green-brown, friable	
	.05		41	Coal, dull, hard, blocky cleavage	
•	.42		7	Coal, vitrain band-	
	.05		36	Coal, dull, hard, blocky cleavage	
	. 25	25	5	Coal oxidized, green-brown, friable	
.28	1	25	25	Coal, dull-bright, hard, irregular cleavage	
		24	5	Coal oxidized, green-brown, friable	
	.05		42 -	Coal, dull-bright, soft, irregular cleavage	
	ł		5	Coal oxidized, green-brown, friable	
	.47		25	Coal, dull-bright, irregular cleavage	
.24		<u>-5=9</u>	28	Mudstone, green-brown, friable, hard	
	.23		33	Coal, dull-bright, hard, irregular cleavage	
	.08		· 5	Coal oxidized, green-brown, friable	
	.27		17	Coal, dull-bright, soft, irregular cleavage	
0.80	10.83		24	Mudstone, green-brown, friable, hard.	
			23	Coal, dull-bright, irregular cleavage	
	•	===	23 8	Coal oxidized, green-brown, friable, soft	
		===	27		hand
			۲1	Coal, bright with dull bands, cubic cleavage,	na ru
	,	===1	Daca	. Mudetona arean-brown frieble camb	
		, ,	oase -	Mudstone, green-brown, friable, carb.	

TOTAL THICKNESS = 11.63m.





ROCK COAL **THICKNESS** LITHOLOGY Centimetres **.30** 30 Dark gray, weath. brownish mudstone 295, 50⁰SW 900+ Coal, oxidized, soft, crumbly. Base can not be found. 900+ DENISON COAL LIMITED 1976 SAXON TRENCH SECTION D-1 End of trench, floor still in soft, crumbly coal DRAWNER L MCB MI Nov. 1976

MANAGES SXON 76 - 0686 - 801

Centimetres Mudstone - red, brown; friable; carbonaceous Coal - dull and powdery 41 ROCK COAL - bright 10 .41 - dull and bright 35 .10 Mudstone - gray, very carbonaceous 25 . 35 Coal - dull and bright 11 Mudstone - green-brown, carb, slightly charty 10 .25 Coal - dull and bright 42 .11 .10 Mudstone - dark gray, very carbonaceous, coal band 5 .42 in centre. Coal - dull, hard, blocky .05 13 .13 Mudstone - red-brown, carbonaceous, friable .07 7 .30 Coal - dull and bright, blocky 30 .10 - dull banded, blocky, hard 10 .02 Mudstone, dark gray, carb., friable 6 .32 2 Coal - bright .10 Mudstone, dark gray, hard, carbonaceous 10 .20 .03 2 Coal - bright dull and bright 32 .55 Mudstone - dark gray, carb., hard, blocky 10 .10 20 Coal - dull and bright .25 Mudstone - green-brown, carbonaceous 3 .10 Coal - dull and bright, very hard 55 - oxidized, powdery -10 1.22 25 - bright, very hard. - oxidized, powdery 10 .15 122 - dull and bright, hard .30 - bright 15 .15 30 - dull and bright 1,04 - bright, banded 15 - dull and bright 104 Mudstone - very carboneous, soft, dark gray. 72 Mudstone - light gray 40 .72 Coal - dull 38 .40 30 Mudstone - medium gray Coal - dull 111 .38 Mudstone - dark gray .30 1,11 DENISON COAL LIMITED CALGARY 1976 SAXON TRENCH SECTION D-2 1001 2.18 7.83

THICKNESS

LITHOLOGY

LMGB

DEAWN IT

APPROVED BY

TOTAL THICKNESS = 10.01 m

MI Nov. 1976

1:50

CAL

SEAN-SEE SXON 76 - 0686 - ROI

Centimetres

		•	•
ROCK	COAL		\boxtimes
	1.68	i.	
0	1.68		r.*.*.*

- 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

COAL DIVISIONS



1976 SAXON TRENCH SECTION D - 3

			ن د است	
DRAWK BY	L MCB	MIE Nov. 1976	SCALE	1:50

APPROVED BY DRAWING THE SXON 76 - 0686 - RO

Centimetres

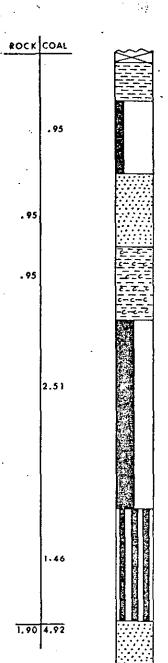
- 51 Mudstone, brown, beds 1 cm thick
- 95 Coal, dull, approx. 8% bright bands
- 95 Orange sandstone, cross beds 1 2 cm thick
- 95 Mudstone, carb. beds 1 cm thick
- 251 Coal, dull-bright, blocky cleavage hard.

146 Coal, weathered

Base, gray sandstone, slumped, cross-beds 1 - 10 cm thick.

Strike =

 $Dip = 47^{\circ}S$



TOTAL THICKNESS = 6.82 m.

DENISON COAL LIMITED

CALGARY



1976 SAXON TRENCH SECTION D - 4.

DRAWNERY L MCB GAIL NOV. 1976 STALL 1:50

APPROVED BY DRAWNEGE SXON 76 - 0686 - ROL

Centimetres

COAL			
•		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		64	Coal, dull, flakey, finely bedded
.24		24	Coal, dull-bright, hard, cleaves into cubes approx. 1 cm
.32		32	Coal, dull, flakey, finely bedded.
.38		38 6	Coal, dull-bright, cleaves into cubes 1 - 2 cm in size Mudstone, gray, carb., finely bedded (0.5cm), friable
.24 .15		24	Coal, dull-bright, hard, blocky, cleavage
		4 15	Mudstone, carb. finely bedded (1 cm) Coal, dull, flakey, finely bedded
		205	Sandstone - weathers gray, coarse grained
1.97		Base	sandstone, orange, X-beds 1-2 cm thick. Formation is very thick.
	.64 .24 .32 .38 .24	.64 .24 .32 .38 .24 .15	57 58 29 64 .24 .32 .38 38 6 .24 .15 24 15

TOTAL THICKNESS = 2.07 m.

Dip = 35° S Strike = 142°

> DENISON COAL BIVISION LIMITED





tunen EMCB	MIE Nov. 1976	жи 1:50
PPRODYL D BY	DELUNIOR SXON 76	- 0686 - ROL

Centimetres

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

.06

7.93

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

Coal, weathered.

DENISON COAL LIMITED

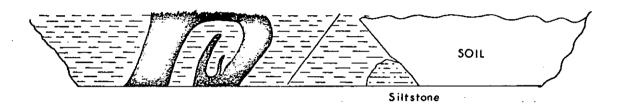
CALGARY . ALBERIA

1976 SAXON TRENCH SECTION D -6

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

DEMMEN LMCB MI Nov. 1976 APPROVED BY BLANNER SXON 76 - 0686 - RO1

TOTAL THICKNESS = 9.73 m.



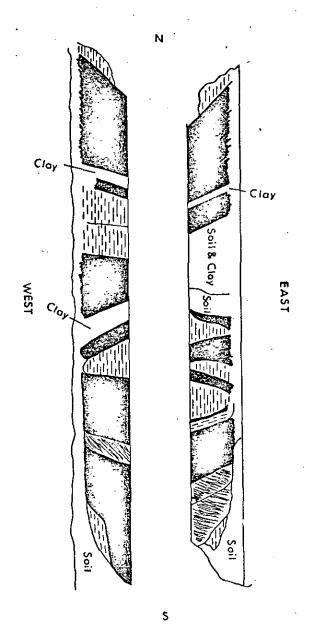
DENISON COAL LIMITED

CALGARY



1976 SAXON
TRENCH SECTION E -1

DRAWNEY L MCB BATE NOV. 1976 SCALE 1:50



DENISON COAL LIMITED CALGARY



DRAWN BY LMCB	MI Nov. 1976	KALL 1:50
	MANUEL IN SXON 76	

Centimetres

.07 .30 .06 .38 .05 .15 .18 .83	20 7 .30 6 38 5 15	Moisture - orange brown carbonaceous mudstone Coal, flakey, poor quality, dull Carbonaceous mudstone, grey Coal, flakey, poor quality, dull Mudstone, grey, carbonaceous Coal, flakey, poor quality, dull
---------------------------------	--------------------------------------	---

TOTAL THICKNESS = 101 m

DENISON COAL LIMITED



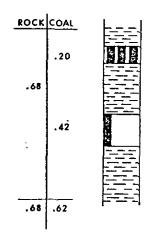
1976 SAXON
TRENCH SECTION E -3

CHANGEN E.M.C.B.	MTE Nov. 1976	≌at 1:50
APPROVLE IN	STANSMENS 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

CALGARY

ALBERTA



1976 SAXON
TRENCH SECTION E - 4

ELMIN IN L MCB ANT NOV. 1976 SERT 1:50

APPROVED BY

BRANNE BS SXON 76 - 0686 - ROI

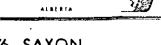
LITHOLOGY **THICKNESS**

Centimetres

ROCK COAL		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)
.06 .29		35	Coal, dull, flakey, 6 cm band of carbonaceous mudstone located 10 cm from end of seam
.00 .29			

TOTAL THICKNESS = 0.35 m.

DENISON COAL LIMITED



1976 SAXON TRENCH SECTION E - 5

ANN ST	L	Mc B	5×II	Nov	. 1	976	XAI	1:50	
						ON 77	0/0	4 POI	•

.80

.95

.10

7.20

.20

Centimetres

Sandstone, top unknown, med. grained, bedded, weathers brownish to tan coloured.

300, 43° N.E.

170 Mdst. gray, weathered, brown-gray, crumbly.

.60 TMdst., as above but with-carbonaceous fragments.

90 Mdst.

- 80 Coal, oxidized, soft crumbly, gritty.
- 20 Mdst. gray, weathers w/bluish tinge and exhibits fissility dip $45^{\rm O}$ N.E.
- 95 Coal 70% bright w/ dull bands, medium hard.
- 10 Coal Vitrain bands.
- 25 Coal 70% bright w/dull bands, medium hard.

720 Coal, dull and bright bands

- 117 Mudstone, dark gray dip. 45° N.E., Friable, carb.
- 31 Coal, dull, soft, irregular cleavage.

Mudstone base, grey, carb., friable.

1.17

1.37 9.61

DENISON COAL LIMITED

CALGARY ALBE

1976 SAXON
TRENCH SECTION E -6

Mainten L MCB BUT Nov. 1976 SCAR 1:50

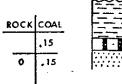
BANNER SXON 76 - 0686 -- ROI

TOTAL THICKNESS = 10,98 m.

THICKNESS

LITHOLOGY

Centimetres



Mudstone - gray, carbonaceous

15 Coal - oxidized, dull.

Sandstone - orange brown, medium grained.

TOTAL THICKNESS = 0.15 m

DENISON COAL LIMITED

CALGARY ALBE

1976 SAXON
TRENCH SECTION E-7

DEADER LMCB DATE NOV. 1976 SCALE 1:50

APPROPRIE IN DISAPPRIE IN SXON 76 - 0686 - ROI

2cm thick.
TOTAL THICKNESS = 11.41 m. 61cm Coal; breaks into cubes; 50% bright.

Bottom Mudstone; dark gray, highly carb; friable.

142° 54°E

DENISON COAL LIMITED



1976 SAXON TRENCH SECTION E-8

Centimetres

ROCK COAL	\bowtie	CM .	Description
		62	Sandstone. Fine Grained. Orange Cross beds - 1 - 3 cm thick.
	13 12 18	5	Gray mudstone carb.
.72		72 .	Coal, oxidized
.05		5	Gray, mudstone, carb.
-87 ·		87	Coal, dull, flakey, breaks into irregular pieces.
.05		5	Mudstone, gray, carb. Fine grained, orange sandstone Cross beds - 1 ~ 3 cm thick.

TOTAL THICKNESS = 1.69 m.

DENISON COAL LIMITED

1976 SAXON
TRENCH SECTION F-1

BRANKET LMCB DATE NOV. 1976 SCALE 1:50

APPENSE BY PRANCE OF SXON 76 - 0686 - RO

LITHOLOGY THICKNESS

Centimetres

ROCK COAL		
.72	72	Coal, dull, flakey, soft
.30 .10 .30 .82 m	30 10 10	Mudstone, gray, finely bedded Coal, dull weathered, soft Mudstone, gray-brown,finely bedded Mudstone, carbonaceous
<u>.</u>	20	Sandstone, finely grained.

TOTAL THICKNESS = 1.12 m.

DENISON COAL DIVISION LIMITED CALGARY

1976 SAXON TRENCH SECTION F - 2

GRAMMEY LMCB	ME Nov. 1976	SCALE	:50
48444 Bu	SVON 7/	0/0/	0.01

Centimetres

ROCK	COAL	احججا
	.30	
	.30	

25 Orange Sandstone, finely bedded

30 Coal, dull, weathered, no internal structure.

30 Mudstone, gray, finely bedded

TOTAL THICKNESS = 0.30 m

DENISON COAL LIMITED

ALBERTA



1976 SAXON TRENCH SECTION F - 3

DRAWN BY LMCB DATE NOV. 1976 SALE 1:50

APPROVED BY

1 **C**Y

CALGARY

BANNE ID SXON 76 - 0686 - ROI

THICKNESS

LITHOLOGY

Centimetres

Description

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

893 Coal, weathered

Gray carb. mudstone base, friable, soft

TOTAL THICKNESS = 8.93 m.

DENISON COAL LIMITED

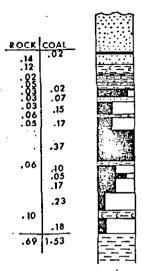


1976 SAXON TRENCH SECTION F - 4

MANNETY LMCB aut Nov. 1976

MATTER SXON 76 - 0686 - ROI

Centimetres



TOTAL THICKNESS = 2.22m

Description

Sandstone, orange, carb.; med.-fine grained.

- 2 Coal, vitrain, shiny, cubic cleaverage
- 14 Siltstone, calcareous, dark gray.
- Mudstone, carb., friable, dark-gray (2 thin vitrain 12 bands - approximately 0.5mc).
- Mudstone, carb.; light brown. 2
 - Mudstone, carb., friable, dark gray
- Mudstone, carb.; light brown. 3
- Mudstone, carb., light gray, friable.
- 3 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'st. interbeds.
- 15 Coal, dull-bright, hard, cubic cleavage.
- 5 Mudstone, carb., dark gray, friable.
- Coal, dull-bright, hard, cubic cleavage. 17
- Coal, vitrain, large cubic cleavage 37
- 6
- Mudstone, carb., dark gray, friable.
- 10 Coal, dull-bright, flakey
- Coal, bright with dull bands, cubic cleavage 5
- 5 Coal, bright with dull bands, cubic cleavage
- 17 Coal, dull-bright, flakey, conchoidal fractures: Resembles slickensides.
- 23 Coal, dull, hard, cubic cleavage.
- Mudstone, massive, dark gray, carb. 10
- 18 Coal, dull, oxidized.

Mudstone base carb., dark gray friable.

DIP =
$$46^{\circ}N$$

STRIKE = 124°

DENISON COAL LIMITED

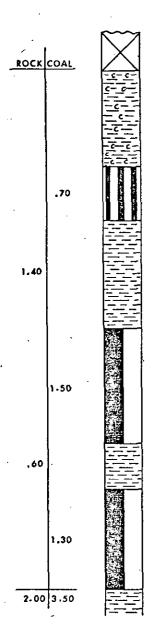


1976 SAXON

TRENCH	SECTION	F - 5
	÷	

L MCB ME Nov. 1976 BANNES SXON 76 - 0686 - ROI

Centimetres



125 Carbonaceous mudstone, gray-black

Coal, oxidized, soft, crumbly. 70

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 - britht. breaks into cubes.

TOTAL THICKNESS = 5.50 m

1 cm = 0.50m.

DAL LIMITED DENISON COAL

1976 SAXON TRENCH SECTION G-1

COLUMN L MCB ME Nov. 1976

APPROVED BY

MARKER SXON 76 - 0686 - ROT

, ,		~~~
ROCK	COAL .	
- 1	.05	-7-4
.53		
		C
	.39	
.04	.10	
.02	.13	
.03	,13	
	.66	
.03	-	
•••		
	.64	
.04		
. 03	.35	<i>81</i> ⊊
.03	.43	E .
.03		
.00	.46	

	.70	
.03		
	.26	
.08	,28	5
.00	.38	
	{	
	.46	3
		<u>-5-5-</u>
.56		
	.38	
	.30	ğ
. 33	}	-2-2-
	1.42	
		69 9
		100
<u>,</u>	7 00	
1.75	7. 24	
_		
ľ		1. 6

Centimetres

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

TOTAL THICKNESS = 8.99 m

DENISON COAL LIMITED





1976 SAXON
TRENCH SECTION G-2

DRAWS BY L MCB	MT Nov. 1976	KM1 1:50
APPROVED BY	MARKE SXON 76	- 0686 - ROI

Centimetres

DESCRIPTION

,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

CALGARY ALBERTA

1976 SAXON
TRENCH SECTION G-3

BRANKET L MCB BATE NOV. 1976 SCALE 1:50

APPROVE BY DILAWRIG NO SXON 76 - 0686 - ROI

Centimetres

		~~~		
ROCK	l	M	40	Sandstone, orange, finely bedded
ROCK	COME		62	Coal,bright, hard blocky cleavage
	•		· 2 5 ·	Mudstone, carb. gray, massive
.05	.62		162	Coal, bright, very hard, blocky cleavage
apr Pili	1.62		14	Mudstone, green-brown, friable, soft
	}		133	Coal, bright banded, hard, blocky cleavage
			152	Coal, dull-bright, irregular cleavage, very hard
.14			3 62	Mudstone, green-brown, friable, soft Coal, bright banded, flakey, soft
•			3 55 30	Mudstone, green-brown, friable, soft Coal, dull-bright, soft, flakey Mudstone, carb., gray, friable
,	1.33		33 · 3	Coal, bright banded, flakey, soft Mudstone, orange-green, friable, soft
:	}   		24 4	Coal, bright banded, soft, conchoidal fractures Mudstone, orange-brown, friable
	1.52		8 6 22	Coal, weathered Mudstone, green-brown, friable, soft Coal, dull-bright, conchoidal fractures, flakey, soft Mudstone, south down large immediate church
			36 6 48	Mudstone, carb., dark gray, large irregular chunks Mudstone, orange-green, friable Coal, dull, flakey, soft
.03			106	Mudstone, carb., dark gray, irregular blocky pieces
.03	.62		47	Coal, dull-bright, flakey, soft
	.55		Base	mudstone, light brown, hard beds - 1cm thick.
. 30				
.03	.24			
.04 .06	.08			
.36				
	.48			
	1			

TOTAL THICKNESS = 10.24 m.

2.16 8.08



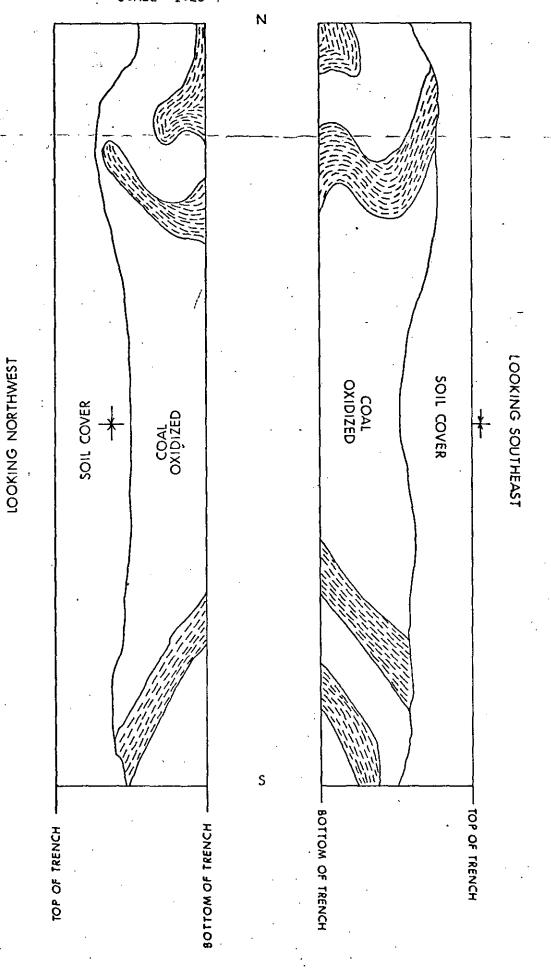


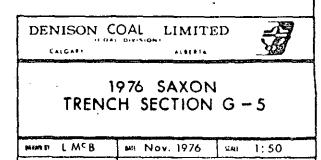


# THICKNESS . LITHOLOGY Centimetres

SYNCLINAL AXIS

SCALE 1:25 .





#### Centimetres

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

- 50 Coal, oxidized soft, crumbly
- Carbonaceous mudstone, finely bedded (0.5cm) 60 gray-black
- Coal, oxidized soft, crumbly
- Carbonaceous mudstone, finely bedded (0.5cm) 130 gray-black
- Coal, oxidized soft, crumbly
- Mudstone, gray and brown interbedded poorly defined 130 bedding planes
- 125 Coal, oxidized, soft, crumbly

Mudstone base

TOTAL THICKNESS 6,30 m

ROCK COAL

.50

.60

.75

1,25

3.20 3.10

. 60

1,30

1.30

DENISON COAL LIMITED

CALGARY

1976 SAXON TRENCH SECTION H-1

L MCB DE ANNE BY ME Nov. 1976 1:50

MANUS IN SXON 76 - 0686 - ROL

# Centimetres

ROCK	COAL		CM	Description
	.15		41	Mudstone, Grey, Carb, Irregular Blocky Cleavage
.03	.46		15 3	Coal, Dull, Soft, Flakey Mudstone, Carb, Grey-Brown, Friable, Soft
.20		4- <del>7</del> -	46	Coal, Dull-Bright, Hard, Cubic Cleavage
.12	.28		20	Mudstone, Carb, Grey, Irregular Cleavage, Slightly Friable
	.28	3	28	Coal, Dull Bright, Hard, Irregular Cleavage
	.22		12	Mudstone, Carb, Grey, Blocky Cleavage
0.35	1.39	7	28 22	Coal, Dull-Bright, Flakey, Soft Coal, Bright, Hard, Cubic Cleavage Base, Mudstone, Carb, Grey, Friable

TOTAL THICKNESS = 1.74 m.

175⁰ 10⁰ W STRIKE DIP

> DENISON COAL LIMITED CALGARY





AWA ET	f WcB.	BATE N	av. 1976	SCALE	1:50	
		. نسست	SYON 74	- AAB	A = RO1	

## Centimetres

ROCK COAL	ر تتتا	M	Description
		53	Siltstone, Orange
.17	) <u>-                                   </u>	8   4   7	Mudstone, Green-Brown, Friable, Carb Mudstone, Carb, Grey-Black, Friable Coal, Dull, Flakey, Soft
0 17	1 1	12	Mudstone, Carb, Grey-Brown, Friable Siltstone, Orange Base
TOTAL THICKN	ESS = 0.17 m		STRIKE 1150 DIP 340E

DENISON COAL LIMITED CALGARY

1976 SAXON
TRENCH SECTION H-3

-			بحسم	
CRAWN BY	L McB	MIE Nov. 1976	KAI	1:50
		<del></del>		

MANUSC 40 SXON 76 - 0686 - ROI

## Centimetres

ROCK COAL		СМ	Description .
	1	12	Mudstone, Carb, Grey-Brown, Irregular Cleavage
		7	Mudstone, Carb, Soft, Finely Bedded
	-c -c	5	Mudstone, Brown-Grey, Iron Stains,
,27			Blocky Cleavage, Carb
	<u> </u>	20	Mudstone, Carb, Grey, Blocky Cleavage
.30		O,	Mudstone, Green-Brown, Soft, Friable
	(83)	6	Mudstone, Black, Carb, Soft, Friable
.86	<b>3</b>	27	Coal, Dull-Bright, Cubic Cleavage, Finely Bedded,
		30	Mudstone, Dark Grey-Black, Carb, Blocky Cleavage
-06	-	86	Coal, Dull-Bright, Soft, Flakey
.18	72.2 	6	Vitrain Band
.30 1.37		18	Coal, Dull-Bright, Flakey, Soft
,	를 등 B	ase	Mudstone, Carb, Dark Grey, Hard, Friable

TOTAL THICKNESS = 1.67 m.

DENISON COAL LIMITED

CALGARY ALBERT



DERMENT L MCB DAIL NOV. 1976 SEMI 1:50

APPROVED BY

MANYING SXON 76 - 0686 - ROI

Centimetres

ROCK COA			
'		40	Mudstone gray carb., friable, soft and flakey
		5	Orange-brown mudstone carb., friable, almost granular
-26	2	42	Mudstone gray carb., friable, soft and flakey
.47		26	Coal - dull, flakey and soft
.12	-cc-	47	Mudstone. gray, carb., friable, soft and flakey
.47 .38		12	Coal - dull, flakey and soft
.4/ .30	, , , , , , , , , , , , , , , , , , , ,	43	Mudstone gray, carb., flakey and soft

TOTAL THICKNESS = 0.85 m

DENISON COAL LIMITED CALGARY



1976 SAXON TRENCH SECTION H-5

MNIN LMCB	MI No	v. 1976	SSALE	1:50
PROVED BY	DECEMBER 185	<b>S</b> XON 76	- 068	6 - ROI

Centimetres

ROCK	COAL	
	.58	
0	.58	

- Mudstone, carb., gray-brown, soft, friable 91
- Coal, dull, soft, flakey 58
- Mudstone, carb., gray-brown, soft, friable 36

Base Sandstone, orange, massive

TOTAL THICKNESS = 0.58 m

DENISON COAL LIMITED



1976 SAXON TRENCH SECTION H-6

and the second s	
	ям 1:50

MANUEL SXON 76 - 0686 - ROI

Centimetres

ROCK	COAL	~~~
•	_	===
	ľ	
	.42	
	.46	
	.26	
0	1.14	

87 Mudstone, carb., gray-brown, friable

42 Coal, dull-bright, flakey, soft

46 Coal, bright, hard, cubic cleavage

26 Coal, dull-bright, flakey, soft

Base Mudstone, carb., orange-brown, friable

TOTAL THICKNESS = 1.14 m

DENISON COAL LIMITED

ATRY ALBERTA



1976 SAXON
TRENCH SECTION H-7

AMERY LMCB DAIL NOV. 1976

. 1976 | sat 1:50

APPROVED BY

MANNETO SXON 76 - 0686 - ROL

	ì	
ROCK	COAL	
	.70	\$ . **
-16		
	₁ 70	
•	.50	
J.		
	.70	
	.30	
	.60	
	.62	
	.53	
!	,69	
	.40	
	.40	
	.50	
	,50	
	.30	
	1,37	
	.50	
	.40	
	.80	
.16	.14	
.02	.08 .02	
.34		
	.40	
		- <u>-</u> <u>-</u>

#### 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 120⁰

Top soil, oxidized coal 50

Coal; some vitrain bands seen 70

Mudstone; dark gray; weathers reddish brown; carb. plant 16

Coal; hard; dull with shiny bands(?); approx. 40% shine; . 70 water starts seeping here

Coal; A.b., 50-60% shine Coal; A.b.

70

Coal; A.b. 30

60 Coal; A.b.

62 Coal; A.b; - more vitrain present(?)

Coal; A.b. 53

Coal; vitrain approx. 70% 69

40 Coal; A.b.

Coal; vitrain; - 90% bright; breaks into blocks 40

Coal; dull; 50

Coal; vitrain, 90% bright; breaks into blocks; laminated, 50

30 Coal; dull; looks powdery

137 Coal; bright - 50%; breaks into blocks

50 Coal; dull powdery

Coal; hard; breaks into cubes - blocks; slicken slides 40 present in abundance.

Coal; flaky but with 90% bright appearance; breaks into 80 cubes, laminated. 16 Mudstone; dark gray, weathers reddish brown, massive,

highly carb.; laminated. Coal; 50% shine; breaks into cubes and blocks. 14

<u>13</u>60 240

Δ 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

Coal; flaky; soft; dull

40

Bottom mudstone; medium - dark gray; carb; friable

TOTAL THICKNESS = 11.87m

0-72 11-15

DENISON COAL LIMITED



# THICKNESS LITHOLOGY Centimetres

			СМ	Description
ROCK	COAL	F=	CFI	Description
		-=-		
. `			224	Mudstone, Carb, Gray-Brown, Soft,
				Irregular Cleavage
		====	. 7	
` .		====		
		# <u>=</u> ====		Coal, Dull-Bright, Blocky Cleavage
.38	.04		38	Mudstone, Carb, Gray-Brown, Soft,
.30		-Z		Irregular Cleavage
	.56		56	Coal, Dull-Bright, Soft, Flakey
,			20	Mudetaine Coult Come Discour Coft Thunguilan
.20 .09	1	<u>c</u> _ z	20	Mudstone, Carb, Gray-Brown, Soft, Irregular Cleavage
	.35		9	Mudstone, Sillicious, Iron Stains, Extremely Hard
.02			35	Coal, Dull, Blocky Cleavage, Hard
	,44		2	Mudstone, Greey-Brown, Friable
	.25	25.0	44 25	Coal, Dull, Hard, Blocky Cleavage
	.20		25 20	Coal, Bright, Cubic Cleavages, (Small), Hard Coal, Dull, Soft, Flakey
	.24	3	24	Coal, Dull, Blocky Cleavage, Hard
	.24		24	Coal, Bright, Hard, Cubic Cleavage, (Small)
	.22		22	Coal, Dull-Bright, Flakey, Soft
.03	.23	2	23 3	Coal, Dull, Hard, Blocky Cleavage Mudstone, Green-Brown, Friable
	.27		26	Coal, Dull, Hard, Blocky Cleavage
	.33		33	Coal, Dull-Bright, Hard, Blocky Cleavage
	.18	40.00	. 18	Coal, Bright, Thin Bands, Cubic Cleavage
	.29	\$4.0X	29	Coal, Dull, Hard, Blocky Cleavage
.05	.40		5	Mudstone, Green-Brown, Friable
•04		4	. 40 4	Coal, Dull, Soft, Flakey Mudstone, Green-Brown, Friable
	ļ	4.83		
	.86		86	Coal, Dull, Soft, Flakey
			14	Mudstone, Carb, Grey, Friable
•14		<u></u>		•
,	.51	ration.	51	Coal, Dull, Soft, Flakey
. 43	5.61	1 /		
		1\ /1		
·	•	11/11		
		11/4		
		$\perp V \perp$	332	Covered by Scree
		1 Y 1		
		$\perp \wedge \perp$		
		$+ L \setminus +$		
	•	$+/$ \ $+$		
		/ \l		
}		<b>V</b> \		
1				
]			Base	Grey, Carb, Mudstone, Friable
		====	המאה	arcy, barby madeones in rabic

TOTAL THICKNESS = 6.56 m
3.32 covered

DENISON COAL LIMITED



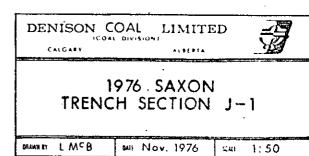
1976 SAXON
TRENCH SECTION I - 2

MCB L MCB	en No	v. 1976	SEALI	1:50
AP7859/10 ET	<b>医外线 </b>	SXON 76	-068	6 – ROI

## Centimetres

.49 .05 .16 .39	1 1 3	M 5 1 9 5 6 89 3	Description Mudstone, Orange, Massively bedded Mudstone, Grey, Carb, Friable, Soft, Finely bedded Coal, Dull-Bright, Hard, Blocky Cleavage Mudstone, Carb, Soft, Friable Coal, Bright with Dull bands, Hard, Blocky Cleavage Mudstone, Grey, Carb, Hard, Blocky Mudstone, Grey, Carb, Soft, Flakey Coal, Dull, Irregular Cleavage, Soft
	A STATE OF THE STA		
5.10	Propositions and the control of the	510	Coal, Weathered
.39		39	Mudstone, Grey, Flakey, Soft
.28		28	Coal, Dull, Flakey, Soft
.96 6.77		30	Mudstone, Carb, Gray, Platey
		Base	Mudstone, Grey-Brown, Blocky, Hard

TOTAL THICKNESS = 7.73 m



MARSO SXON 76 - 0686 - ROT

DRAWN BY LMCB

# Centimetres

ROCK COAL	CV	Description
	97	Sandstone, Orange, Medium Grain, Cross Beds 2 - 4 cm. thick
÷	1:	Covered by Stream
	3!	Mudstone, Grey-Brown, Carb, Friable, Hard
.36	36	Coal, Dull with Bright Bands, Hard,
.18 .04 .24	18	<pre>    Blocky Cleavage Coal, Dull, Hard, Irregular Cleavage Vitrain Band</pre>
.68	2/	Coal, Bright with dull bands, Hard, Dull Bands Irregular Cleavage, Bright Bands - Cubic Cleavage
	68	Coal, Dull-Bright, Hard, Irregular Cleavage
0 1.50	B	se Mudstone, Carb, Dark Grey, Hard, Irregular Platey Pieces

TOTAL THICKNESS = 1.50 m.

STRIKE 170° UP 50°W

DENISON COAL LIMITED

CALGARY

1976 SAXON

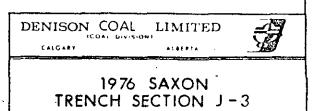
TRENCH SECTION J-2

 	DATE N	 S SCALE	1:50
 		 71 01	A

# Centimetres

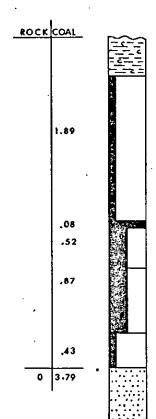
ROCK COAL	ത്തി	CM	Description
		83	Sandstone, Oragne, Med. Grained, Finely Bedded Cross Beds 2 - 6 cm.
		72	Mudstone, Grey, Carb, Friable, Hard
.56	_ \	56	Coal, Weathered
.14		14	Mudstone, Grey, Carb, Friable, Soft, Iron
.54		54	Oxide stains along cleavages Coal, Dull-Bright, Hard, Irregular Cleavage
.29		29	Coal, Dull, Hard, Irregular Cleavage
.97		97	Coal, Dull-Bright, Hard, Irregular Cleavage
1.27		127	Coal, Dull, Soft and Hard Sections, Blocky Cleavage
.14 3.63		Base	Siltstone, Massively Bedded (approx. 20 cm) Dark Grey, Carb

TOTAL THICKNESS = 3.77 m.



	DESAMBLET L.M.C.B.	ы Nov. 1976	жн 1:50			
APPROVED BY		Maria 5XON 76 - 0686 - ROI				

Centimetres



- 47 Mudstone, carb.; friable; gray with orange-yellow iron stains
- Coal, soft, dull with orange-red iron stains along 189 cleavages.
- 8 Vitrain band 52 Coal, dull-bright, hard, irregular cleavage yellow-orange iron stains along cleavages.
- 87 Coal, dull-bright, hard, irregular cleavage
- Coal, dull, soft, flakey 43

Base Siltstone, massively bedded (approx. 20cm) dark gray, carb.

TOTAL THICKNESS = 3.79 m

DENISON COAL LIMITED

> 1976 SAXON TRENCH SECTION J-4

L MCB MI Nov. 1976

BANNESS SXON 76 - 0686 - ROI

SCALL

APPROVED BY

#### THICKNESS LITHOLOGY Centimetres ROCK COAL 29 Mudstone, carb., gray-brown, friable, beds - 1/2cm .39 39 Coal, dull, hard, irregular cleavage 74 Coal, dull-bright, hard, cubic cleavages .74 11 Mudstone, carb., gray-brown, friable, soft 21 Coal, dull-bright, soft, blocky cleavage 5 Mudstone, carb. gray-brown, blocky hard . 21 43 Coal, dull-bright, soft, flakey .43 15 Coal, dull, hard, blocky cleavage .15 Coal, dull-bright, hard, cubic cleavage 39 .37 37 Coal, dull, hard, blocky cleavage . 37 23 Coal, dull-bright, flakey, soft .23 -8 Mudstone, gray-brown, carb.; friable, soft .08 .04 Vitrain band 53 Coal, dull-bright, hard, irregular cleavage .53 30 Coal, dull, soft, flakey .30 6 Vitrain band .06 148 · Coal, dull, blocky cleavage, hard 1-48 108 Coal, dull-bright, irregular cleavage, soft 62 Coal, dull, hard, blocky cleavage 33 Coal, bright, hard, irregular cleavage 1,08 **5**9 Coal, dull-bright, hard, cubic cleavage 46 Coal, dull, soft, irregular cleavage .62 43 Coal, dull-bright, soft, flakey R Mudstone, carb., gray-brown, friable, soft .33 Coal, bright, irregular cleavage, med. hard. 93 .59 51 Coal, dull, hard, cubic cleavage .46 69 Coal, dull-bright, irregular cleavage, med. hard. .43 34 Coal, bright, hard, small cubic cleavages .08 117 Coal, dull-bright, soft, flakey ,93 62 Coal, dull, hard, blocky cleavage 18 Mudstone, carb., dark gray, hard, blocky pieces, .51 Beds - 1cm thick. Sandstone, orange, med. grained, massively bedded. 13 .69 25 Coal, dull-bright, flakey, soft 24 Mudstone, carb., dark gray, friable, soft. .34 23 Coal, dull-bright, irregular cleavage, med. hard Base Mudstone, carb., gray, blocky cleavage, hard. 1.17

Strike =  $142^{\circ}$ Dip =  $35^{\circ}$ W

DENISON COAL LIMITED



1976 SAXON
TRENCH SECTION K-1

. 62

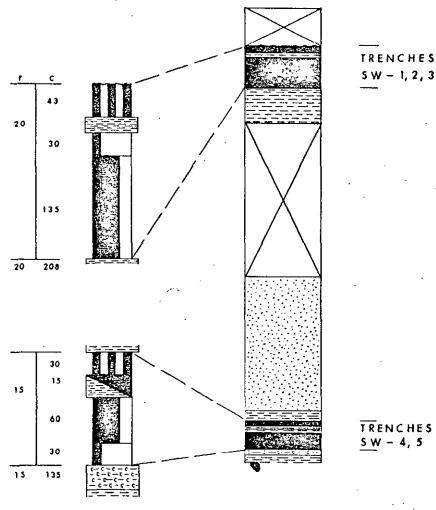
. 25

. 23

13.57 m.

. 18

,24



TRENCHES SW - 4, 5

NO.	DESCRIPTION	8 Y	DATE
	REVISION	S	

# SAXON COAL LIMITED

PREPARED BY: DENISON COAL LIMITED 3 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