



FORM 180

Eldorado Coal Corp.

R

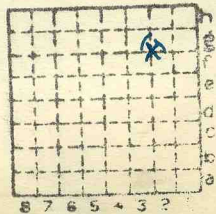
F

SPRINGFIELD

Dering #2

G. No. 553

665.



Sec. 24

T. 8<sup>N.</sup> S.

R. 6<sup>W.</sup> E.

Index No.

Mi. #125, BM 70,424

Mine Index



Mine originally operated by: (1)

Date **J. K. Dering Coal Co.**

1917

Original name or number: **#2**

Illinois Coal Report **1917** p.

LATER OPERATORS

Date	Operator	Name or No.
2 1930	Franklin Coal Co.	#10
3 1931	Rex Coal Co.	#2
4 1940	Dering Coal Co.	#2
5 1952	Eldorado Coal Corp	

6  
7  
8  
9  
10  
11  
12  
13  
14

Abd 4/53

470' S 40' E of NW corner SE NE (1948)

1946  
OK

\* Also owners #See ownership sheet

Railroad, Wagon, Idle, Abandoned **shaft**

I.C., C.C.C. & St. L.

IDENTIFICATION

S-6

County No. **553**

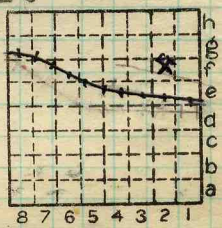
Coal No. **5**

Quad. **Eldorado**



Part

(1948) 5' 3"



Sec. **24**

T. **8** S.

R. **6** W.

Index No.

**0524 f2**

County **Saline**

COAL MINE OPERATOR



( Sheets ) COAL PRODUCTION ( Sheet )

No.	Period						Tons	
	Mo.	Day	Year	Mo.	Day	Year		
						1935		
6	1	1	1936	12	31	1936	418	263
6	1	1	1937	12	31	1937	450	313
S-6	1	1	1938	12	31	1938	318	350
						1939	403	849
						1940	478	495
S-6	1	1	1941	12	31	1941	486	165
8-6	1	1	1942	12	31	1942	526	639
						1943	533	515
						1944	481	567
						1945	440	534
						1946	493	061
						1947	443	846
						1948	450	244
						1949	291	643
						50	300	366
						51	89	415
						52	67	349
						53	17	822

#3

4836,830  
3008,442  
1928,188

Production thru 1953 11,110,003

SUMMARIES

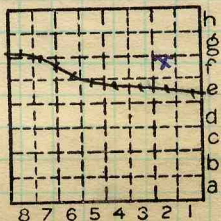
No.	to	No.		
1917		1935	4418	567
			418	242
			4836	830

Railroad, Wagon, Idle, Abandoned

S-6

IDENTIFICATION

County No. 553 Coal No. 5  
Eldorado  
Quad. Part  
County Saline



Sec., 24  
T. 8 N. S.  
R. 6 E. W.  
Index No. 0524 f2

COAL MINE—PRODUCTION



LOCATION AND ELEVATION

Location:

N. side **Ill. Central R.R.**

R. R.

side

R. R.

side Highway No.

on top. map

Location sheet

Elevation: Method, 1. Est. ( ) \_\_\_\_\_ ft.

2. Inst. (kind **Plane Table**) **426.9** ft.

By \_\_\_\_\_ Data sheet

DEPTH

Authority \_\_\_\_\_ To coal **456** ft.

Authority \_\_\_\_\_ Rail to rail \_\_\_\_\_ ft.

Top of coal above rail. (Est. Rule) \_\_\_\_\_ ft.

To coal **465** ft.

ALTITUDE OF TOP OF COAL

By estimated data \_\_\_\_\_

By instrumental data \_\_\_\_\_

**29cr.** ft.

Thickness

Max. \_\_\_\_\_ in. Min. \_\_\_\_\_ in. Aver. **71** in.

GEOLOGICAL DATA

Mine notes, date **1918** \_\_\_\_\_

Coop No. \_\_\_\_\_ Pyr. inv. \_\_\_\_\_ Coal Ash inv. \_\_\_\_\_

CHEMICAL DATA

Analyses Face U. I. **3** B. M. **3** Others \_\_\_\_\_

Car U. I. B. M. Others \_\_\_\_\_

Org. Sulf U. I. B. M. Others \_\_\_\_\_

Ash fusion U. I. B. M. Others \_\_\_\_\_

Ash anal. U. I. B. M. Others \_\_\_\_\_

**#125** U. I. B. M. Others \_\_\_\_\_

Classification **R.I. 136 U.C.I. 148**

Misc. tests: Coking. \_\_\_\_\_ Cleaning \_\_\_\_\_ Boiler \_\_\_\_\_

Published descriptions:—

**870 N } SW on SENE**  
**40 E }**

Railroad, Wagon, Idle, Abandoned

Sec. **24**

IDENTIFICATION

County No. **553**

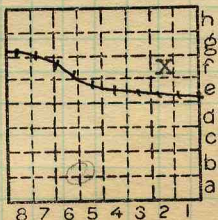
Coal No **5**

Quad. **ELDORADO**

County **SALINE**



Part



T. **8** N. S.

R. **6** E. W.

Index No. **0524 f2**

COAL MINE LOCATION AND DATA

Town, **Eldorado**

Surface alt., **426.99** ft.

Local Authority,

Depth to coal, **456** ft.

Level: Auth., **Mine notes from Co.**

Alt. top coal, **-29** ft.

Thickness: Av. **71** in.

Max. in., Min. in.

Method,

R. R., **Ill. Cent. R.R.**

**500' from N line**  
**1150' " E "** R. **6E**  
**820' " S " T.**  
**170' " W " S**



Sec. **24**

Location: authority, **Letter J.K. Dering**

**3/1/18**

(Show R. R.)

Operator

Mine Name or No.

**26 1906 National Coal Mfg**

✓ **1918. J.K. Dering Coal Co**

**No. 2.**

**1914 - 20 McCormick Bldg Chicago**

Successor to

Date

Succeeded by **Franklin County Coal Co**

Date

**Feb 16 1930**

**Blk Diam 2/15/30**

Succeeded by

Date

**PRODUCTION.**

**Q**

							U. S. No.
19							
<b>1927</b>		<b>131</b>	<b>2000 av. daily</b>				
<b>1928</b>		<b>267</b>					<b>No 42</b>

Geol. Notes? **Yes**

Coop. No. **#125**

Coal secs.? **No.**

Analyses No. **12934-5-6**

**3 4**

**1930 #43**

Examined by

Ref.

Coal bed name: Local

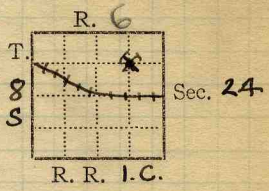
Survey No.

County **Sakie**

Index No. **0524.85**

**K.—ACTIVE SHIPPING OR LOCAL COAL MINE.**

Mine Name or No., **No 2**  
2 1/2 miles **W** from **Eldorado**  
Operator, 1919 **Dering Mines Co**  
**J.K Dering Coal Co**



Operator, 191  
Entrance, **Shaft** Elev., **424.7** ft. <sup>above,</sup>  
Depth to <sup>top</sup> ~~bottom~~ coal, **465** ft. Alt. **-41-29**  
**426.99** / **456** <sup>see location sheet</sup>  
SURFACE DATA.

- A. Topography, See  
B. Surficial materials. (1) Character, See  
(2) Thickness, **about 60 ft** (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc.

- C. Outcrops, (1) Character, See  
(2) Structure, See  
(3) Fossil horizons, See  
Collection No.,  
(4) Evidences of subsidence, See  
D. Note collection of mine maps, drill records and shaft logs.

E. Notes on surrounding area, See drill record sheet,

Coal bed name: Local, See  
Collector, **G.H. Cady** Survey No. **85**   
Mine, **Dering No 2** Co. **Saline** Index No. **0**  
L.—SURFACE SHEET (Geol.)

K. (5) Physical character of coal in benches,

(a) Relative hardness, *Coal fairly hard.*

(b) Lustre, *Bright*

(c) Fracture,

(d) Texture, *Much broken near fault*

See

(6) Impurities in coal, other than bedded, -

(a) Kind, *Dikerock*

(b) Position and persistence,

(c) Rejected,

Ease of separation,

See

L. Floor: (1) Material, *Fireclay*

(2) Thickness,

(3) Variation,

(4) Note character, condition, tendency to heave, relation to undercutting commercial value.

See

(5) Clay sample No.

Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground,

Collection No.

Location,

N. Notes on effect of deep drilling in coal mine areas.

*Opened in  
National M. S.  
1906*

See

Collector, *Cady*

Mine, *Dering #2*

Co. *Saline*

Coal: Survey No. *5*

Index No. *6524*





## INDEX

Map was furnished by Engineer J. D. Gaynor showing position of fault. This will be found in files. There seem to be two dikes one having a maximum thickness of about 25 feet and the other 60 feet.

There is also a fault near the air shaft having a down throw on the northwest of 35 feet. This apparently does not extend a great distance playing out to the southwest.

The roof near the dikes is generally shattered and traversed with slip planes. If the mine were wet they ~~were~~ roof would be hard to hold probably. The slip planes are commonly vertical + about parallel with the dike. Movement at the edge of the dike is commonly in evidence. This is generally vertical, but in one case was observed to be horizontal.

Collector Cady April 7 1919  
 Mine Dering 2 Co. Saline  
 X.—EXTRA SHEET No. 1

Coal: Survey No. 5   
 Index No. 0524



Sec 18 Eldorado Twnp

800. S., 900' W. Cen Sec

Drill hole run on in mine - Unknown  
origin

Information from W.K. Mayfield  
Eng'r Rex Coal Co.  
Also Bob Lindsay. Engr.

Shaft Rex Coal Co

1340?

860 N. RR

1320 E., 810' N. E sec 24 Raleigh Twnp

Alt. top of shaft 426.99.

Depth to top of coal #5 456.00'

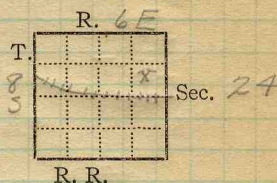
Alt. top of coal bed -29.01'

Thickness coal bed 6'0"

$$\begin{array}{r} \#6 + 120 \\ \hline 29 \\ \hline + 91 \\ \hline \end{array} =$$

0524 Fz

Mine Name or No., *No 2*  
*3 1/2* mile *SW* from *Eldorado*  
 Operator, 19*21*  
*D. K. Dering Coal Co.*  
 Operator, 191



Entrance, *Shaft* Elev., *424* ft.  $\left\{ \begin{array}{l} \text{above, } \textit{Sea level} \\ \text{below,} \end{array} \right.$   
 Depth to *bottom* coal, *462* ft. Alt. *-38*  
*456.0* SURFACE DATA. *29.01* — *Ap. 2, 1938. G.H.C.*  
*from Eng. levels.*

- A. Topography, *Rolling*  
 B. Surficial materials. (1) Character, *Till*  
 (2) Thickness, *No information* (3) Effect on mining and shaft-sinking, of former drainage lines, underground water strata, etc. *No information*

- C. Outcrops, (1) Character, See  
 (2) Structure, See  
 (3) Fossil horizons, See  
 Collection No.,  
 (4) Evidences of subsidence, See  
 D. Note collection of mine maps, drill records and shaft logs.

See drill record sheet,

E. Notes on surrounding area,

See

Coal bed name: Local, Survey No. *5*   
 Collector, *Wilson*  
 Mine, *J.K. Dering # 2* Co. *Saline* Index No. *0524.76*  
 L.—SURFACE SHEET (Geol.)



- F. Thickness of rock above bed worked, *No information*  
 (1) Important variations, See
- G. Note presence of strata having important effect on mining, See  
*Shale Roof*  
 (1) Position, *Just over coal*  
 (2) Character, *Full of slips.*  
 (3) Persistence, *throughout mine.*  
 (4) Other workable coal beds, *No information.*  
 See X 1

- H. Cap rock, *Not seen.*  
 (1) Thickness,  
 (2) Height above coal, *No information.*  
 See

- I. Immediate roof, *Gray Shale*  
 (1) Thickness, *No information* (2) Contact with coal, *Even; tight in places.*  
 (3) Horizontal variation,  
 See X 1

- J. Draw slate. (1) Thickness, (2) Contacts  
*None - "Clod" comes in places*  
 (3) Persistence,

- K. Coal bed: Max. *84* Min. *60* Av. *65* inches  
 (1) Benches, *None*  
 (a) Position,  
 (b) Persistence,  
 See  
 (2) Bedded impurities, kind, position in benches, persistence, ease of separation.

*In N part of mine, See Blue Print, is a shale band 10" thick 15" from the bottom of the coal.*  
 See

- (3) Irregularities in continuity of bed (due to deposition, erosion, or movement,  
*Faults, Intrusives?* See X 2  
 (a) Effect on mining,  
 See

SECTION				
Ft.	fn.	Name	Index	Sym.



K. (5) Physical character of coal in benches,

(a) Relative hardness, *Seam very hard through.*

(b) Lustre, *Bright to glance*

(c) Fracture, *Clear not regularly defined.*

(d) Texture, *Laminated.* See *X 1*

(6) Impurities in coal, other than bedded,

(a) Kind, *Pyrite stringers & lenses*

(b) Position and persistence, *In upper part of seam*

(c) Rejected, Ease of separation, See

L. Floor: (1) Material, *Hard F.C. or shale*

(2) Thickness, *No information.*

(3) Variation,

(4) Note character, condition, tendency to heave, relation to undercutting commercial value.

*F.C. is full of small slips. Does not heave; is too hard.*

See

(5) Clay sample No. Location,

M. Stratigraphy,

(1) Fossiliferous horizons underground,

*Roof shale contains many plant fossils.*

Collection No. Location,

N. Notes on effect of deep drilling in coal mine areas.

See

Collector, *Wilson*

Coal: Survey No. *5*

Mine, *J.K. Dering #2* Co. *Saline*

Index No. *0524.76*



INDEX

(36713-500-7-20)

Gr. The shale roof: With few exceptions, this  
I. roof is full of slips thruout the mine.  
Where it does not contain the slips it makes  
avery good roof but the slips cause  
many falls.

Ksd. Cleat: Ht face of Main U N. face is  
fairly well shown Here it is N 45° E.

Collector Wilson

X- /

EXTRA NO. 1

Index No. 0524.76

County Saline

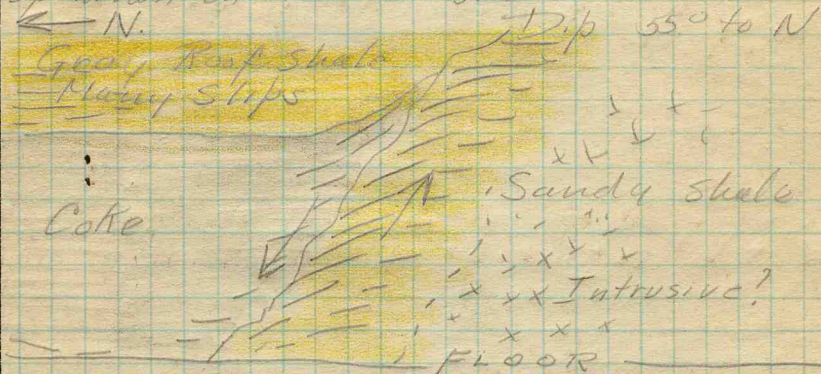


INDEX

(36713-500-7-20)

K3

Zone of faulting in Main U.N.  
 Here a series of faults trending N 35 W  
 For about 15 W. of the main fault  
 of this series the coal is coked. Drag  
 here indicates that the coal has been  
 upthrown on the E side.



In the sandy shale an intrusive has  
 apparently forced itself up probably  
 causing the fault and coking the coal.  
 In it are several 4-5" veins of calcite.

Collector *Wilson*

Index No. *0524.76*

X- *2*

EXTRA NO. *2*

County *Saline*

Symbol

Description

Inches

Gray Shale Roof

1. Coal (containing ch'coal lenses)
2. Gray Shale (Slickensided)
3. Coal

47  
10  
15

Thick 72"

See Blue Print for outline of  
the area containing this shale  
band.

Location: Face of 3rd N.

(Scale: 1 division = 3 inches).

Sample No.

Can No.

Lab. No.

Collector, *Wilson*Coal: Survey No. *5*Mine, *J.K. Dering & Co. Saline*Index No. *0524:76*

Q.—COAL SECTION SHEET.



Operator, *J.K. Dering Coal Co.*

Date, *July 15 1921*

Mine, *No 2*

Sec. 24 T. 8 S R. 6 E

Located, *3 1/2* miles from *Eldorado*

Location in mine, *Room 3 off the 4th N.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
			<i>Shale roof (stickensided)</i>	
<i>20 1/2</i>	<i>1</i>	<i>1</i>	<i>Coal</i>	<i>20 1/2</i>
		<i>2</i>	<i>Coal + charcoal</i>	<i>3/4</i>
		<i>3</i>	<i>Coal</i>	<i>7 1/4</i>
<i>3/4</i>	<i>2</i>	<i>4</i>	<i>Clay mixture</i>	<i>3/4</i>
<i>7 1/4</i>	<i>3</i>	<i>5</i>	<i>Coal</i>	<i>2 1/4</i>
<i>3/4</i>	<i>4</i>	<i>6</i>	<i>Pyrite</i>	<i>1 1/2</i>
<i>2 1/2</i>	<i>5</i>	<i>7</i>	<i>Coal</i>	<i>13 1/2</i>
		<i>8</i>	<i>Charcoal</i>	<i>1/8</i>
<i>13 1/2</i>	<i>7</i>		<i>Coal</i>	<i>21 1/2</i>
<i>1/8</i>	<i>8</i>		<i>Tape</i>	<i>66 1/2 3/4</i>
<i>21 1/2</i>	<i>9</i>			<i>66 3/4</i>
(Note character and thickness of floor)				
Total thickness of coal.				
Condition, <i>As Mined</i>		Time,	hr.	min.
Wt. Gross, <i>22</i> lbs.		Net,	lbs.	
What Nos. shipped by Co.?				
Excluded from sample: No. <i>4</i>				
Sample represents <i>65 3/4</i> in.				tons.
Impurities? How do they occur?				

Sample No. \_\_\_\_\_ Can No. *N-21-86* Lab. No. *12934*

Collector, *Netzeband* Coal: Survey No. *5*

Mine, *J.K. Dering #2* Co. *Saline* Index No. *0524-76*

Operator, *J.K. Dering Coal Co* Date *July 13, 1921*  
 Mine, *No. 2* Sec. *24 T. 8 S R. 6 E*  
 Located, *3 1/2 W* miles from *Eldorado*  
 Location in mine, *Main E. N. 4*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
<i>9 3/4</i>	<i>1</i>		<i>Grey shale, roof</i>	<i>9 3/4</i>
<i>1/8</i>	<i>2</i>	<i>1. Coal</i>		<i>1/8</i>
		<i>2. Pyrite</i>		<i>33 1/2</i>
		<i>3. Coal</i>		<i>1/8</i>
		<i>4. Charcoal</i>		<i>37</i>
		<i>Coal</i>		<i>80 1/2</i>
<i>33 1/2</i>	<i>3</i>		<i>Tape 80 1/2</i>	
<i>1/8</i>	<i>4</i>			
<i>37</i>	<i>5</i>			
			(Note character and thickness of floor)	
			Total thickness of coal.	
		Condition, <i>As mined</i>	Time, hr. min.	
		Wt. Gross, <i>25</i> lbs.	Net, lbs.	
		What Nos. shipped by Co.?		
		Excluded from sample: No. <i>None</i>		
		Sample represents <i>80 1/2</i> in. tons.		
		Impurities? How do they occur?		

Sample No. \_\_\_\_\_ Can No. *N-21-87* Lab. No. *12935*  
 Collector, *Netzaband* Coal: Survey No. *5*   
 Mine, *J.K. Dering #2* Co. *Saline* Index No. *0524.76*  
 R.—COAL SAMPLE SHEET.

Operator, *J.K. Dering Coal Co* Date *July 15, 1921*  
 Mine, *No. 2* Sec. *24* T. *85* R. *6E*  
 Located, *3 3/4* miles from *Eldorado*  
 Location in mine, *Face of Back West N.*

GRAPHIC SECTION		DESCRIPTION OF SECTION (AT POINT SAMPLED)		
In.	No.	No.	(Note character and thickness of roof)	Inches
<i>5 1/4</i>	<i>1</i>		<i>Gray shale roof</i>	
	<i>2</i>			
<i>21</i>	<i>3</i>	<i>1. Coal</i>		<i>5 2/3</i>
		<i>2. Clay</i>		<i>1</i>
		<i>3. Coal</i>		<i>21</i>
		<i>4. Charcoal</i>		<i>2 1/8</i>
<i>1/4</i>	<i>4</i>	<i>5. Coal</i>		<i>28 2/8</i>
		<i>6. C Charcoal</i>		<i>2 1/8</i>
		<i>7. Coal</i>		<i>6 4/8</i>
<i>28 1/2</i>	<i>5</i>		<i>Tap 6 1/2</i>	<i>62 3/4</i>
<i>1/4</i>	<i>6</i>			
<i>6 1/2</i>	<i>7</i>			
(Note character and thickness of floor)				
Total thickness of coal.				
Condition, <i>As mined</i>		Time,	hr.	min.
Wt. Gross, <i>20</i> lbs.		Net,	lbs.	
What Nos. shipped by Co.?				
Excluded from sample: No. <i>2</i>				
Sample represents <i>61</i> in. tons.				
Impurities? How do they occur?				

Sample No. \_\_\_\_\_ Can No. *N-21-88* Lab. No. *12936*  
 Collector, *Netzeband* Coal: Survey No. *5*   
 Mine, *J.K. Dering #2* Co. *Saline* Index No. *052476*  
**R.—COAL SAMPLE SHEET.**



See  
Extra  
Sheet  
No.

Entrance *Shaft*  
 Kind of tippie *Steel*  
 Motive power for hoist *Steam*  
 Source if electrical  
 Kind of hoist (cage, skip, etc.) *Cage*  
 Kind of haulage *Elec Motor*  
 Mining equipment *Short Walls, Conveyors entirely*  
 Note any features of the equipment that are of special interest

SURFACE DATA.

A. Topography, *Level*  
 B. Surficial materials, (1) Character,  
 (2) Thickness, (3) Effect on mining and shaft-sinking, of  
 former drainage lines, underground water strata, etc.

C. Outcrops, (1) Character,  
 (2) Structure,  
 (3) Fossil horizons,  
 Collection No.,  
 (4) Evidences of subsidence,  
 D. Note collection of mine maps, drill records and shaft logs.

See drill record sheet,

E. Notes on surrounding area,

Coal bed name: Local,

Survey No. 5

Collector, *JK Dering Coal Co*  
 Mine, *No 2* Co. *Saline*

Index No. *0524*

F. Thickness of rock above bed worked,

(1) Important variations,

See

G. Note presence of strata having important effect on mining,

*Draw slate*

See

(1) Position, *On coal*

(2) Character, *light colored shale, fine grained.*

(3) Persistence, *yes*

(4) Other workable coal beds *#6 lies above distance probably same as in O'Connell*

See

H. Cap rock, *None*

(1) Thickness,

(2) Height above coal,

See

I. Immediate roof, *draw slate*

(1) Thickness, *2" to 5"* (2) Contact with coal,

*good parting, smooth contact*

(3) Horizontal variation,

*not much* See

J. Draw slate, (1) Thickness, (2) Contacts

(3) Persistence,

*None available*

K. Coal bed: Max. Min. Av. inches

(1) Benches, *none*

(a) Position,

(b) Persistence,

See

(2) Bedded impurities, kind, position in benches, persistence, ease of separation,

*no strata bedded impurities.*

See

(3) Irregularities in bed (due to deposition, erosion, or movement),

*some hills and swags, minor faulting* See

(a) Effect on mining,

*slight*

See

SECTION		
Name	Ft.	In. Sym.

Collector, *J. K. Dering Coal Co*

Coal: Survey No. *5*

Mine, *702* Co.

Index No. *0524*



259593

## K. (5) Physical character of Coal,

(a) Relative hardness,

Relatively hard.

(b) Lustre,

Fairly bright.

(c) Fracture,

Regular

(d) Texture,

See

(6) Impurities in coal, other than bedded, kind, position, persistence, ease of separation, etc.

Pyrite lenses most common, one pyrite lamina near top at Sect #1, some coal thoroughly impregnated with FeS. Some facings of Caliche and a few of pyrite.

See

## L. Floor: (1) Material,

? Fine clay. Usually hard

(2) Thickness,

(3) Variation,

Hard to soft but predominately hard

(4) Note character, condition, tendency to heave, relation to undercutting, commercial value.

See

(5) Clay sample No. A-309 WA-318 Location,

## M. Stratigraphy,

(1) Fossiliferous horizons underground,

Collection No.

Location,

## N. Notes on effect of deep drilling in coal mine areas.

See

Collector,

JK Perry Coal Co.

Cola: Survey No. 5 

Mine,

No 2

Co. Saline

Index No.

0524



Symbol

Description

Inches

1 division = 3 in.

5th E 7th South top 85, 7E  
off 4th E South

NW corner of NE 1/4 of NW 1/4 of  
Sect. 30

2' dip str from <sup>10 ft below</sup> ~~green shale~~ <sup>slightly</sup> ~~shaly~~  
top of coal

A-312

Thin pyrite lamina 1/16"

1/8" thin pyrite layer of pyrite lamina

A-314

in coal lamina 1/8" x 1/4"

in coal lamina 1/2"

1/4" Mother coal

A-313

1/4" Mother coal persistent

in coal str.

See down very highly shaly bedded  
some part surface ~~is~~ <sup>is</sup> ~~not~~ <sup>not</sup> ~~shaly~~ <sup>shaly</sup>

A-309

Collector.

Mine.

Co.

Coal: Survey No.

Index No. 2524

Q.—COAL SECTION SHEET.





Symbol Description Inches

[1 division = 3 in.]

This Sample taken in 5<sup>th</sup> E, 7<sup>th</sup>S  
off 4<sup>th</sup> E South.  
Situated in N.W. corner of NE 1/4  
of NW 1/4 of Sect 30, Twp 8 S, R 7 E

32" drap slate, fine grained, light colored. A-312

Thin pyrite lamina 1/16"

1/8" stone pyrite. Horizon of pyrite lenses A-314

Mother coal 1/8" here up to 1/4"

Mother coal lamina 1/8"

← Pyritized Coal ←  
← 1/4" Mother Coal ←

1/4" Mother Coal Very persistent

Mother coal streak

clean Hard Coal  
Slightly banded

Fire Clay - Very highly slip fractured,  
some plant impressions. Soft and soapy A-309

Face Sample A-310  
Hand Specimen A-315  
Pyritized Coal A-313  
Pyrite Lenses A-314  
Hand Specimen of Pyritized Coal - A-317

Collector. J.K. Derry Coal Co  
Mine. No 2 Co. Saline  
Q.-COAL SECTION SHEET. #1

Coal: Survey No. 5  
Index No. 0524





Symbol Description Inches

[1 division=3 in.]

This Sample Was taken in Room  
2 West, 7<sup>th</sup> E, 8<sup>th</sup> N, 3<sup>rd</sup> East South.  
Situated in SW central of SE 1/4 of  
NW 1/4 of Sect 19 Twp 8 S, R 7 E

3" of drab slate. soft laminated sandy shale.  
Top of coal

A-319

horizon of stony pyrite lenses.

Hard Clean Coal

Mother coal seam.

Pyrite lense 1/4" thick 3" long.  
1/4" Mother coal

Mother coal streak

" " "

" " "

Hard Clean Coal  
Banded.

Free Sample A-311

Fire clay, hard and siliceous  
some plant impressions but not slipperfooted.

A-918

Collector. J K Dering Coal Co.  
Mine. No 2 Co. Saline

Coal: Survey No. 5  
Index No. 0524

Q.—COAL SECTION SHEET. A 2



Symbol

Description

Inches

[1 division=3 in.]

Room 2 7<sup>th</sup> E 8<sup>th</sup> N  
3<sup>rd</sup> E Street

SW quarter SE 1/4 of NW 1/4  
of Sect 19

3" thin dark soft lignite  
with some buff fine  
fragments of coal

range of thin pyrite lenses small

mcs

lignite lens 1/4" 3" long  
1/2" in coal.

mcs

mcs

m c streak

Fire clay hard and siliceous  
some plant imp but not slip out

Collector.

Mine.

Co. *Silv*

Q.—COAL SECTION SHEET.

#2

Coal: Survey No.

Index No.

0564



moderate amount of  
strings of calcite

Some fragments of pyrite  
a few non-ventilatory forams



INDEX

- A Bedded Impurities  
There are no distinct  
Bedded impurities in this coal
- B Concretions and segregations.  
Lenses of pyrite compared  
of more or less stony pyrite  
Quite numerous but are  
thrown out when coal is loaded.  
Stick to coal to some  
extent.
- C None
- d Joint fillings and facings  
Some facings of Calcite - Not  
important constituent of ash  
Also a few of pyrite.  
A few veinlets of pyrite (vertical  
networks)
- e none
- f none
- g none
- h none
- i none

Collector J. K. Dering Coal Co  
 Mine No 2 Co. Saline  
 Coal: Survey No. 5  
 Index No. 0524

## INDEX

Roaf. The Roaf is the most serious impurity in this coal. The draw-slate is soft and much of it falls with the coal. Sorted as it is loaded into conveyors but much of it escapes. This gives them the most trouble.

Flour Not much of an impurity. Under cutting is done in coal but sometimes machine digs into fire clay. Then some cinders, bug dust and gets into fine coal.

Collector JK Deering Coal Co  
Mine No 2 Co. Saline

Coal: Survey No. 5  
Index No. 0524

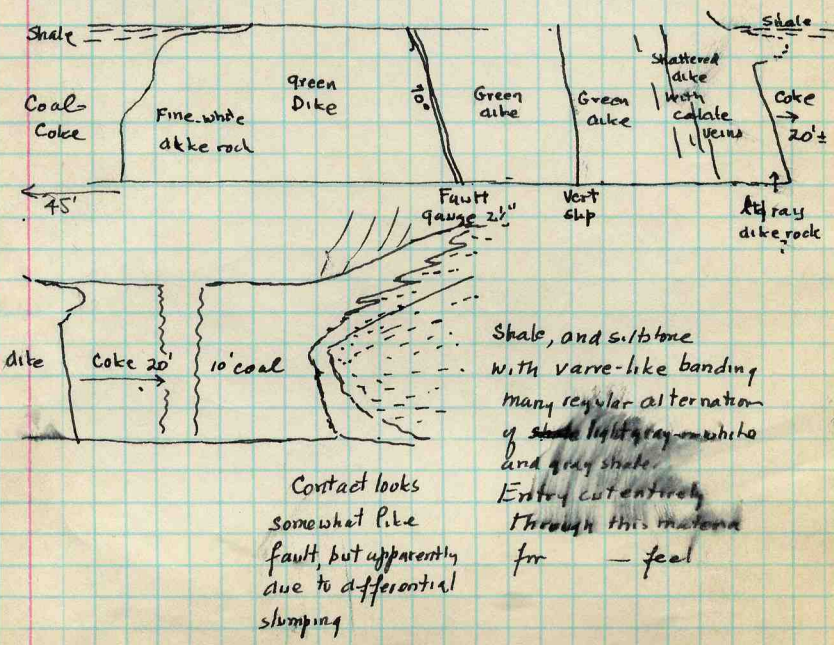


Dering Coal Co. Mine No 2. 10 pp. notes & sketches

Visited Dec 14, 1946, Rolf Foley and G. H. Cady  
~~Under~~ With Percy Galeener, Mining Engineer

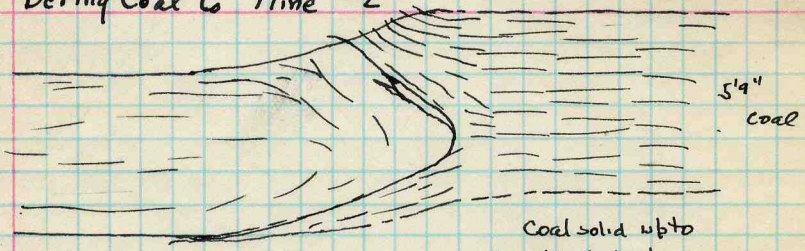
Visited NE part of mine - Purpose mainly to see irregularities. Faults, dikes and large cutout area

Entry crossing the cutout area - E to W. cutting rock most of the way - Entered from East ~~From~~ The coal was coked 45 feet east of the fault, Incoating, the coal was changed along a abrupt line - but seemed to become somewhat harder toward dike. The dike did not pass through the bed along a sharp line and extend further into the coal bed than into shale above. Shale was hardened & probably silicified





# Dering Coal Co Mine #2



Claylense with  
varve-like laminae  
Gray and light gray

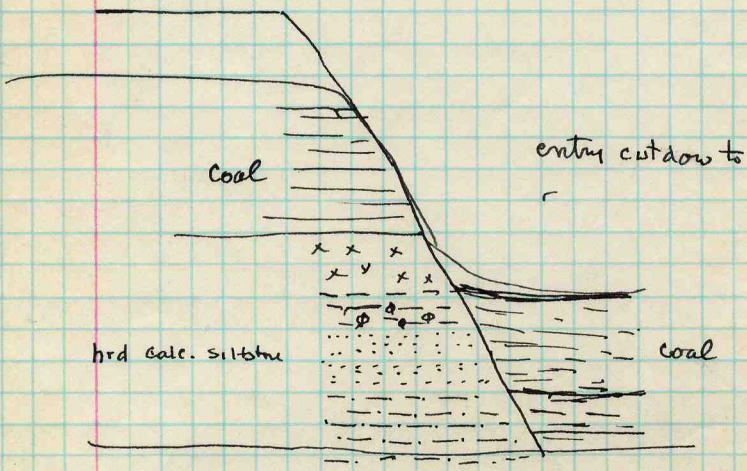
Coal solid upto  
point of shale lense  
Shale lense much fractured  
near end. Evidently  
irregular slumping

It is apparent that this body of shale is a thick lense deposited in the ~~and~~ peat while the peat was accumulating and that present phenomena are due to different amount of slumping of peat and shale lying at same position. The shale is much varved or interlaminated white and gray siltstone - . Possibly number of varves would ~~be~~ be useful in calculating time of coal deposition.



Fault along 37<sup>th</sup> E - Fault strikes N.25.W  
parallel with dikes.

Here the throw is a little more than thickness  
of bed. Normd fault - dip 35-45° NE, estimated  
Fault a clean break with very little drag on either side  
On up throw side ~~top coal bed lies against~~  
~~underclay~~ underclay lies against top coal  
bed on down throw side. Clay shale with small  
to be limestone nodules & below underclay;  
and gray sandy shale below.



also looked at dike in same entry  
which has general features like the other  
- It gray rock on <sup>out</sup> edges. - to y dike



Oering Mining Co  
 Mine # 2  
 Dec. 14, 1946

4

Along ~~some~~ main haulage way. Quite a few spots where there have been falls to considerable height and there ~~has~~ a good deal of timber has been used - in general haulage ways not excessively timbered -

Roof appears to be exceedingly regular consisting of a gray massive silty shale - - Saw one portion of a vertical tree trunk about 15" in diameter. No evidence of spreading roots at top of coal but contact with coal not seen.

~~The~~ The faults crossing mine produce displacement about thickness of bed resulting in great irregularity in grades along haulage ways.



GWC - RWK  
 Dering Mining Co.  
 Mine #2  
 Eldorado

5

Dec. 14, 1946

Roof conditions in mine. on the Northeast side were good. The prevailing roof

was a gray sandy shale with no persistent jointing - which staid up well

In places a thin layer of black or dark gray shale ~~is~~ occurs at the top of the coal - Usually not over 1" thick -

Apparently this tends to come down with the coal - and when it does the shale tends somewhat to come off in slabs and has to be more carefully timbered than elsewhere. Timbering is ~~is~~ not excessive.

Engineer. Percy Galeener reports a few inches of "draw slate" present on west side of mine where which comes down with the coal - and here roof gives some trouble - Did not see this.



6

5  
4  
3  
2  
1

hardened shale

58' ft.

11 1/2  
2 1/2

p-1

Dering Min. Co  
Mine No. 2  
Dec. 14, 1944

Coke

Dike  
Fine, light gray

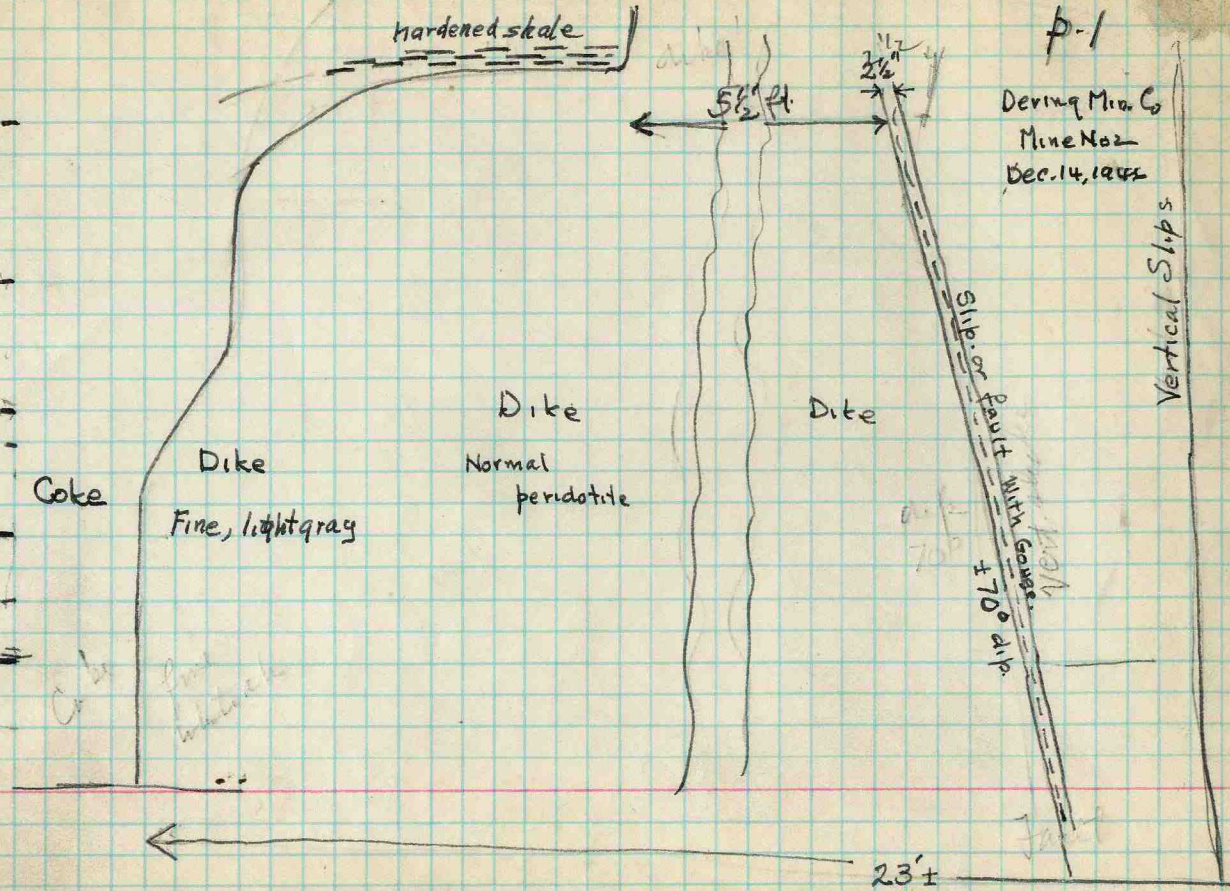
Dike  
Normal  
peridotite

Dike

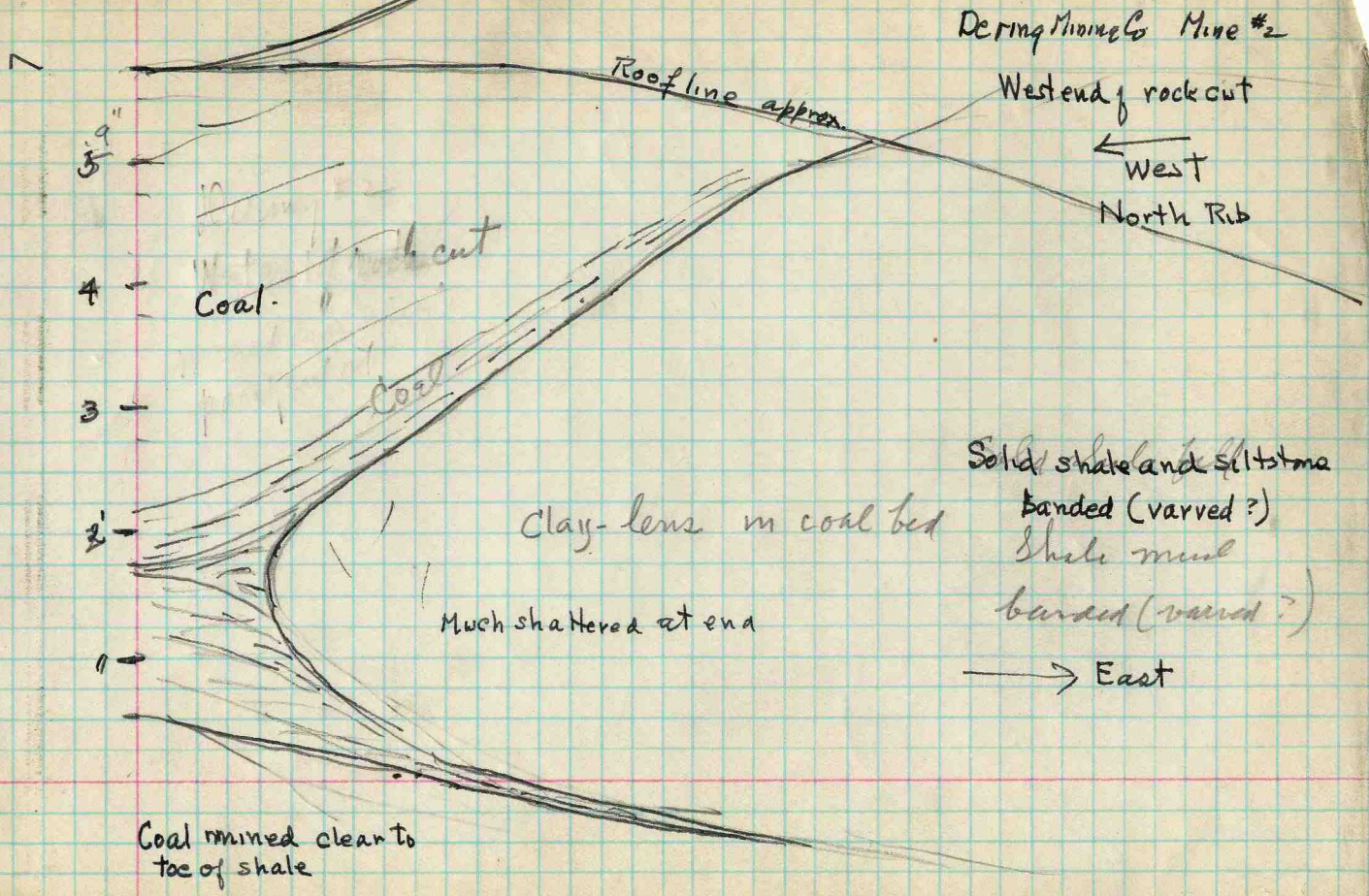
Slip on fault with  
700 dip  
Fault

Vertical Slips

23' ±



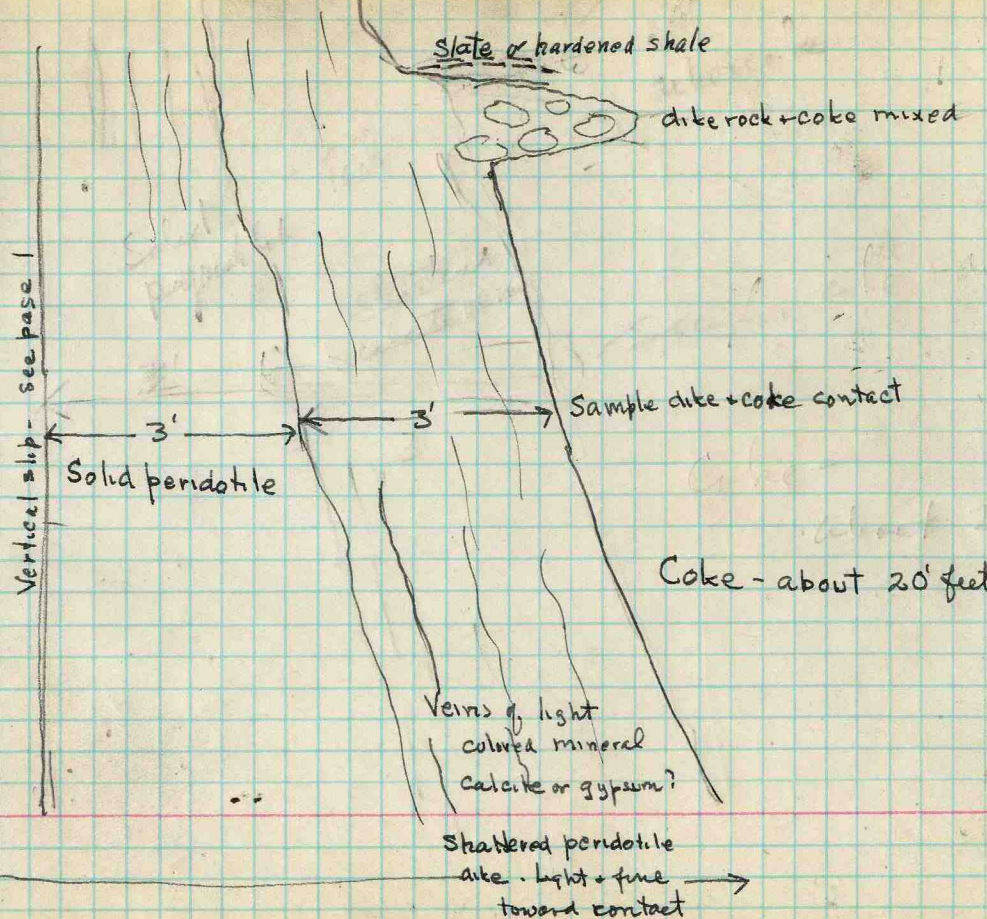
John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves patented. FORM 417608



John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves patented. FORM #1760B



∞



Pp2  
Dering Quarry  
Mine #2  
DCA 14, 146

in rock out  
entry -  
crossing shale  
lense

23t

Shattered peridotite  
dike - light + fine  
toward contact →

Base of coal bed

Dec. 14, 1946  
G.H.C. + R.W. Rolog

p. 9

N. 25° W  
(37th E Underday Entry)

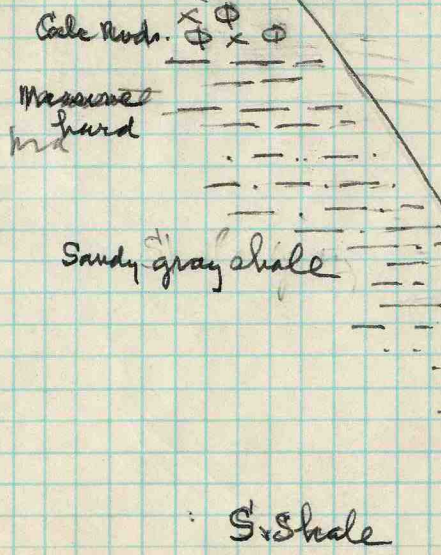
5

4

3

2

1



Coal

Coal Nods.

Massive hard mud

Sandy gray shale

S shale

Clean cut fault plane dips 35-45° N F  
with strike N 25° W  
parallel with dikes

Coal practically undisturbed  
up to fault plane

Horizontal slickensides  
on hanging wall, and

No vertical slickenside

About 18"-24" top of bed on down throw to  
bottom bed on up throw

Dering Coal Co. Mine # 2

John C. Moore Corporation, Rochester, N. Y. Binder and holes in leaves Patented. FOKL 417608



P. 10

Dering Mining Co  
Mine # 2  
Dec. 14, 1946

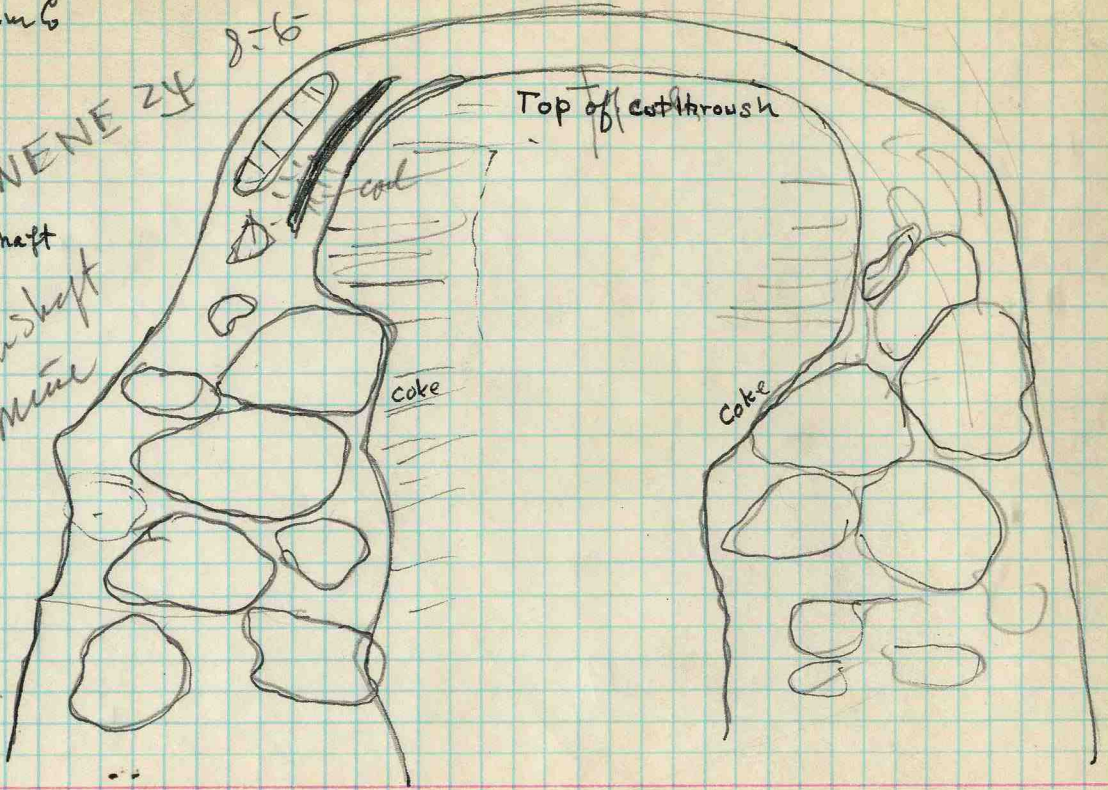
NEENE 24

8-6

Near mine shaft

near shaft  
mine

Top of cut through



opposite sides of same cut through  
near shaft bottom

E ←

→ W

DERING COAL COMP.  
ELDORADO, ILL.

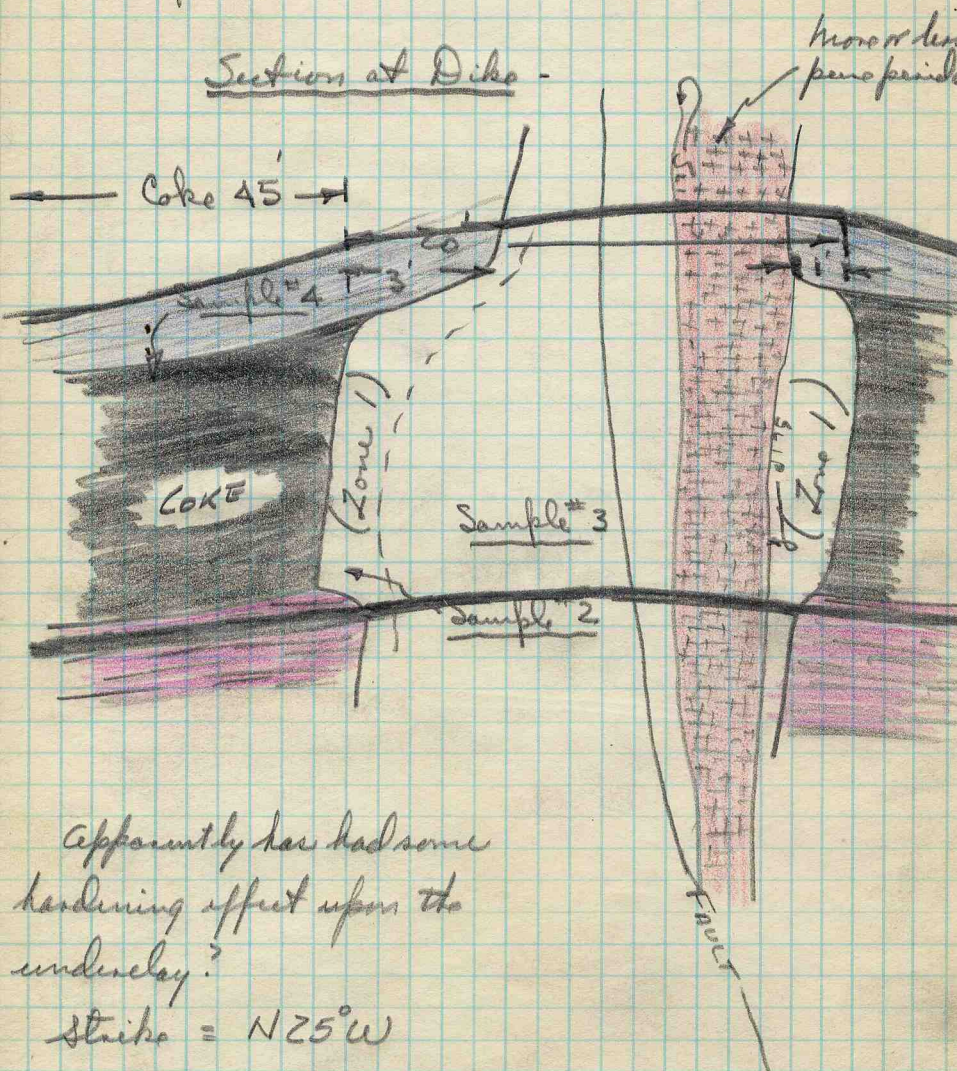
Rolf W. Roley

Sect. 24 85-6E Salme County



Dering Coal Co.

Section at Dike -

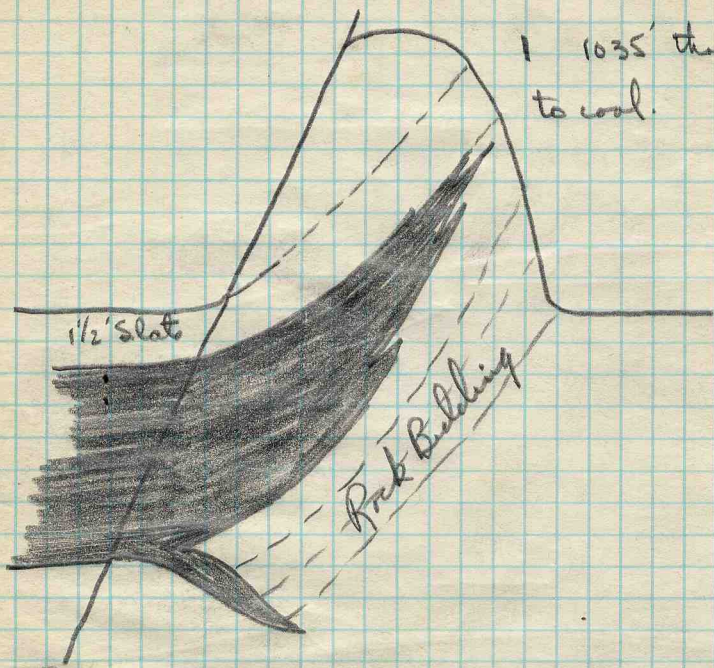


Apparently has had some  
hardening effect upon the  
underclay?

Strike =  $N25^{\circ}W$

Zone 1 is a very light grey iq. material, fine grained  
and very different from the pure peridotite zone.  
Annoyes about 2' wide when visible.

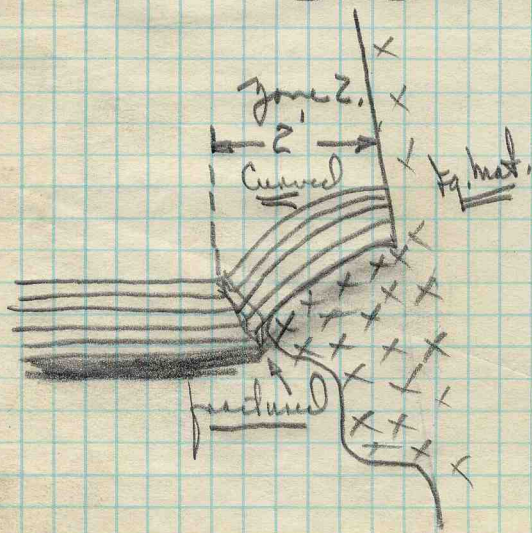
Section at Split Cool Area



1 1035' then cut-out to cool.

1 1/2' slate

Rock Bulking



In zone 2

The slate has offered high resistance to the Eq. mat. The slate has been bent while being metamorphosed.

zone 2.

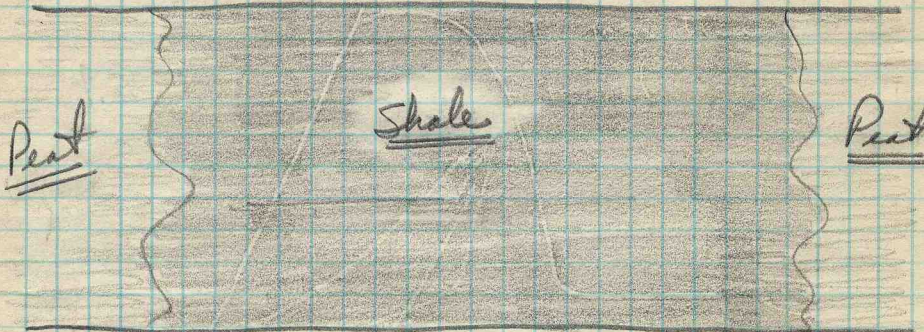
2'

Curved

Eq. mat.

fractured

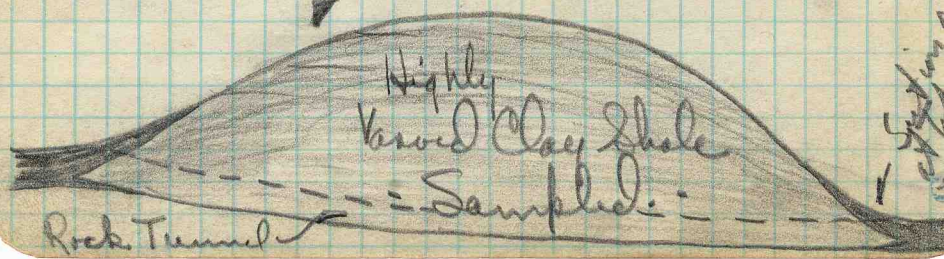
Depositional Form.



$\pm 1200'$

Final form due to differential slumping

as found at Deering Coal Co.

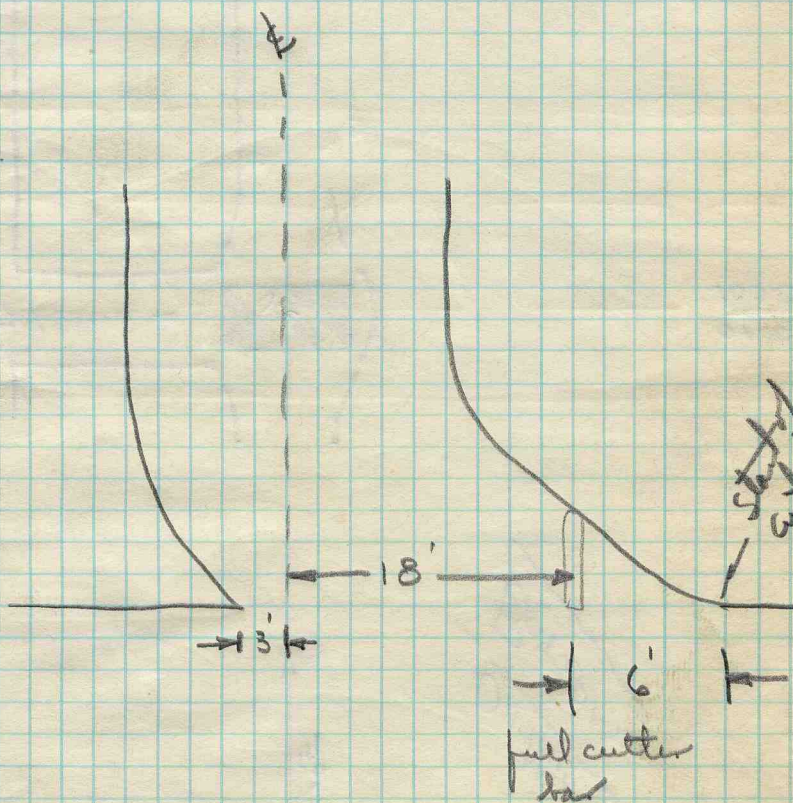


Sectioning

Sec. of Dike of P. 1. -

the expanded section of dike in the position of the original coal might possibly be due to:

- a. susceptibility of coal to ig. material.
- b. take up of vol. material of adjacent coal area.



↑ NORTH

537°E

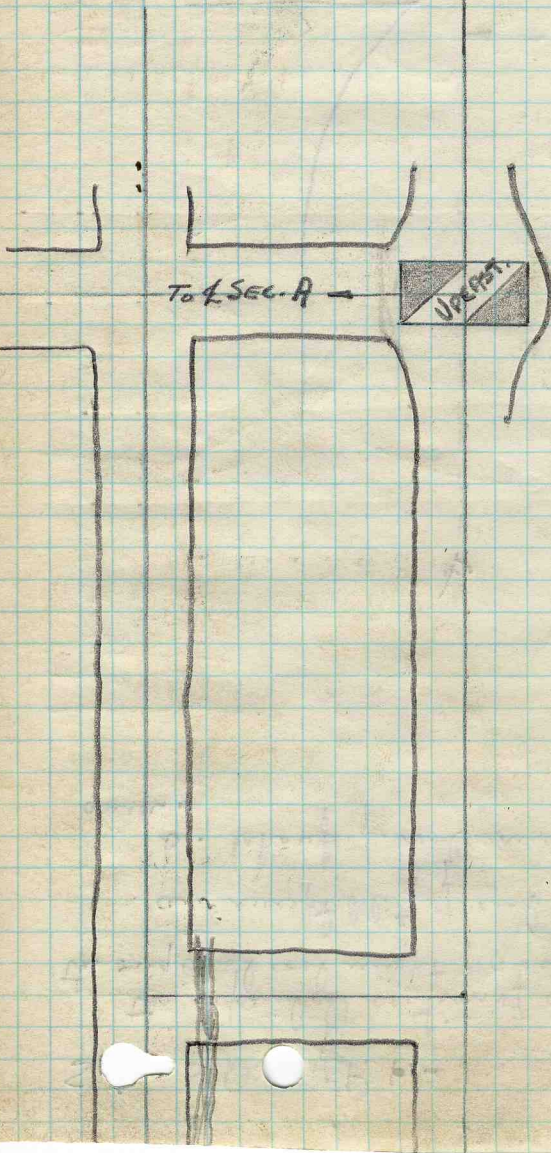
ON MINE  
BOTTOM

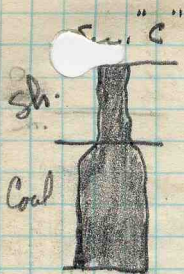
To SEC. A



0+0  
100.

1+0  
101.





Dike thin abruptly at shale contact  
thicker at bottom of coal seams than at  
top.

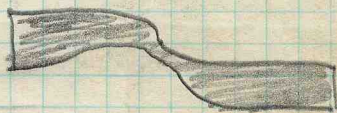
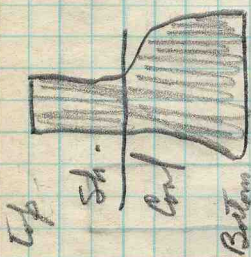
± 8' Coke on both sides dike.

Photo #1 Dike is very nodular with high amounts of  
coke present.

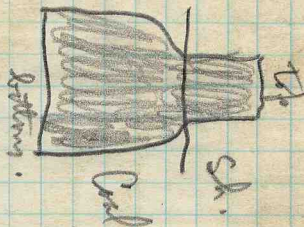
Dike material matrix - Sample #1.

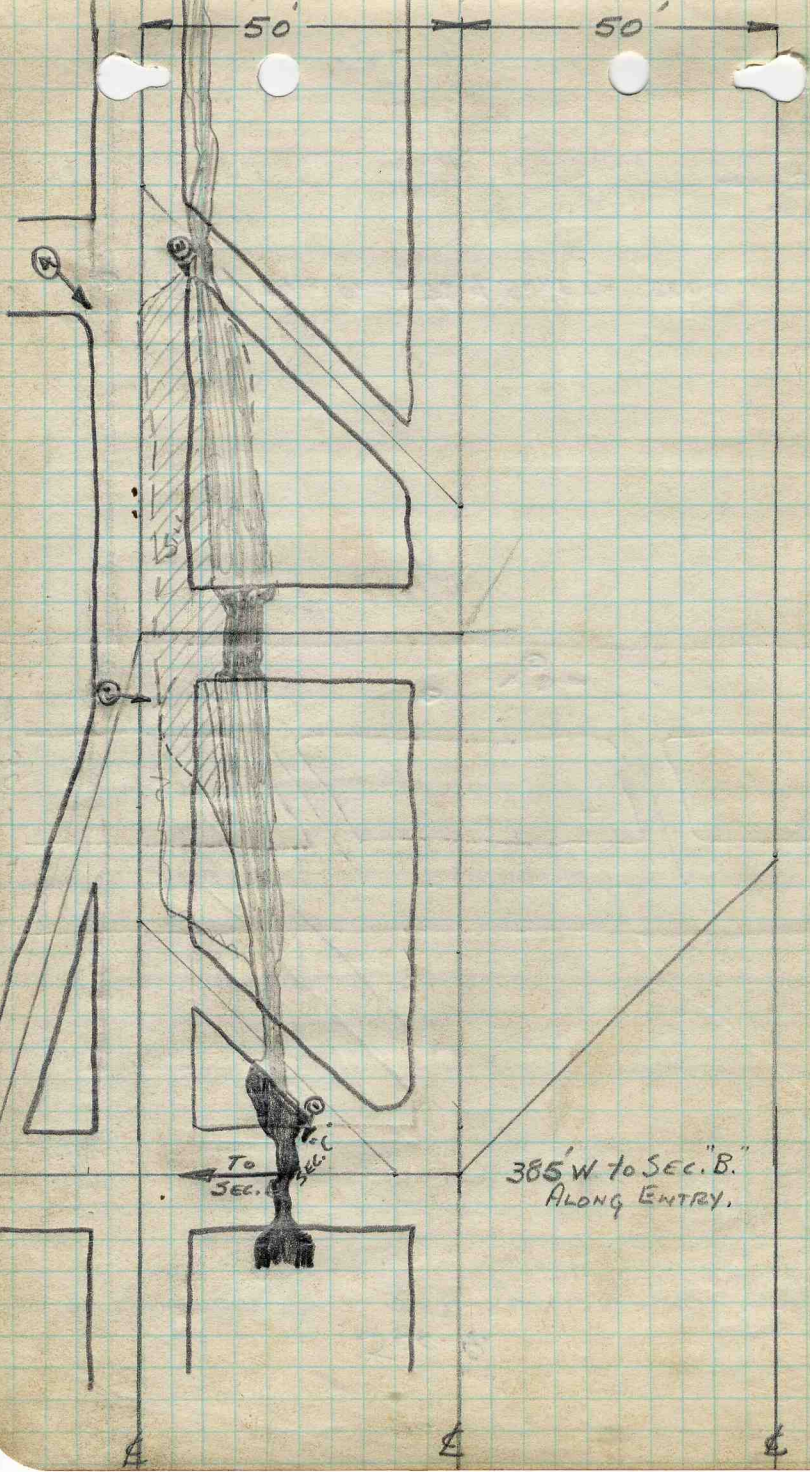
Coal nodule from dike - Sample #2.

Dike is ± 4' at max - 4" at minimum.



Look Up →  
when facing West.





50'

50'

240  
102.

310  
102.

To  
SEC. C SEC. C

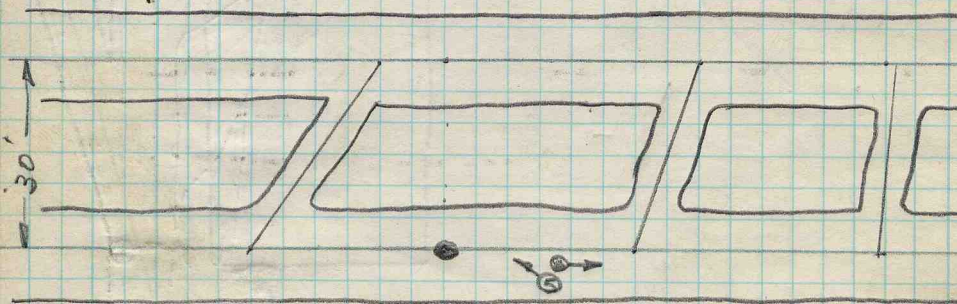
385' W to SEC. "B."  
ALONG ENTRY.

A

E

E

11 11  
SEC. A.

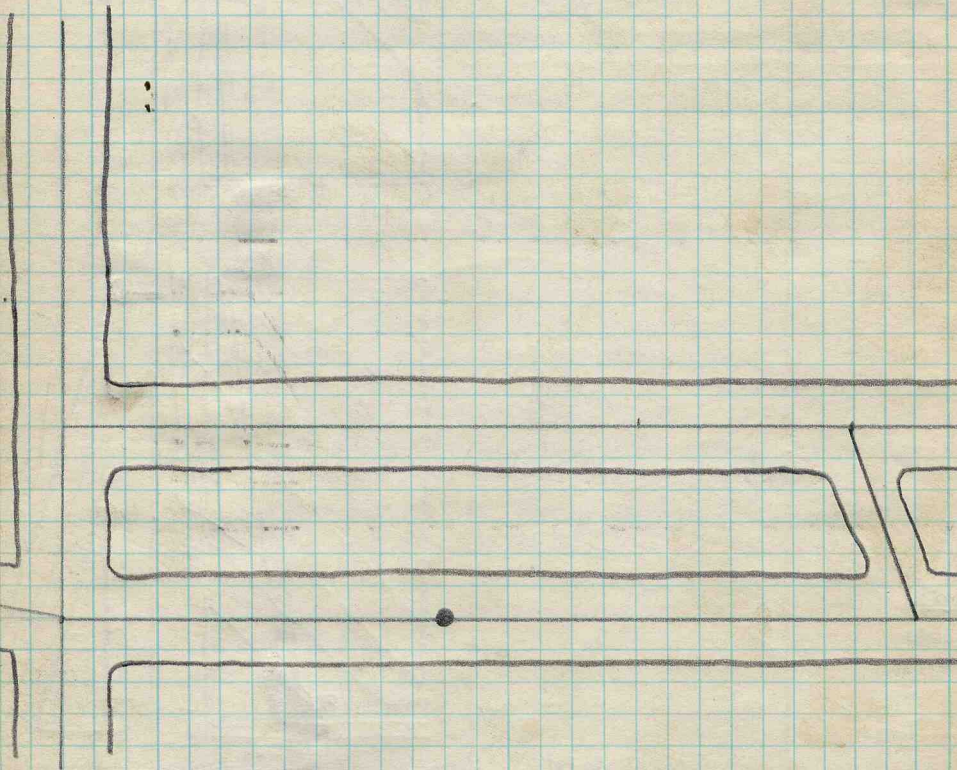


● FROM THIS POINT TO  $\phi$  SHAFT = 200.0'

SCALE  
30'



SEC. "B."



● FROM THIS POINT TO  $\phi$  SNAFT ENTRY = 385'

Pl to 2.

Shows the termination of the sill on the  
± South end. Cannot be seen further S.  
but appears to continue back into the ib.

note:

That the sill stops on a joint in shab.

The shab material extends about 4' or  
in from end of sill but only goes about  
10" below the sill. 1<sup>st</sup> light colored streak  
marks the end of the coke.

Sampled sill.

Photo 3.

Show start of sill from dike.

note Coke both above & below sill.

Sampled coke above sill.

Photo 4

To show extent and variations in sill.

Photo 5

In air course showing like  
coal contact.

Photo 6 Shows excellent permanent  
air-course timbering.

Photo #7 SE Bottom showing rock (Sh)  
top and permanent concrete cover  
for roof-support.

Photo #8 7<sup>1</sup>/<sub>4</sub> N. off 3<sup>rd</sup> C.S. Between  
32<sup>nd</sup> E & 23 West.

Shows 3 slips giving a loop chunk  
that fell without warning. Much like last  
faulting.

#9 Surface in shale above coal

#10 #11 #12 - W to E on dikes.

#13

slow change of Coal to Ck