



STATE GEOLOGICAL SURVEY.

COUNTY *Morgan*
TOWNSHIP *13 N*

RANGE *10 W* 1530

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

1 *Wagstaff mine*
2 *Fisher mine*

ls stone outcrop in highway. Sample taken



1530

The following records entirely from memory gives the record of materials passed thro in shaft

LOCAL MINE

Surface clays	20
Shale	34
Limestone	1
Shale	7
Limestone	1
clay shale	2
Slaty coal	1/2'
Coal	4'
	<hr/>
	69 1/2'

Shaft #1 located about 600' East 50' deep
 " #2 " " 300' north 70' deep

Je wher's shaft located about 3/8 miles South
 this shaft about 60' deep.

In Sec 31 T13N R10W along highway a limestone was observed outcropping also resembling the brecciated limestone. This occurred at an elevation approximately 610'. There appeared to be 3-4 feet of limestone. Its relation to other materials was not observable. sample collected.

1530



COAL MINE NOTES.
CONTINUED.

OPERATOR *F. Wagstaff* MINE # *3* 1530
 ENTRANCE *Shaft* NAME OF COAL BED # *2*
 ELEVATION *635±* THICKNESS OF COAL LOCAL MINE
 DEPTH TO FLOOR *69* MAX. *5'4"* MIN. *36"* AV. *48"*
 ALTITUDE OF COAL *566*
 LOCATION OF SECTION *About 125' east of shaft.*

No. SECTION.

No.	SECTION.	In.
1	limestone	12
2	light gray shale	24
3	s gray coal	6
4	coal	18
5	black sh parting	1/8
6	coal	7
7	gray shale parting	1 1/2
8	coal	15
9	clay parting	1/8
10	coal	12
11	fine clay or clay shale	36±
Tape 5 2"		Total 53

SAMPLE No. *U 405*

CAN No. *51*

CONDITION *Dry*

GROSS WEIGHT *28#*

TIME EXPOSED *1 hr 1/8*

NOT SHIPPED 1/8

NOT INCLUDED # *8*

SECTION

Feet
12
24
6
18
1/8
7
1 1/2
15
12
36±

clay shale parting

PHYSICAL PROPERTIES BY NUMBERS

The lower coal # 11 is a very bright, brittle, hard, coal. # 9 is darker colored not so bright and dull lustre # 7 stands out as a prominent bench and has a dull lustre fairly hard coming out in large chunks. # 5 is the softest coal, dull lustre breaking into small pieces. # 4 a coal with small sh bands which is left to support roof. *bastard coal* 6" left up for roof, above this a soft gr sh varying from 2' to 4' then 12" of limestone FLOOR a grayish slightly sandy soft clay shale.

DIP *About 1 foot to every 100' to the Southwest.*

FAULTS, ETC. *no faults, but slickensiding.*

GAS *none*

COLLECTOR *John A. Udden* REFERENCE *Econ. sheet*

DATE *11/17/09*

#2739



1530