

#1

Section of Phipps coal

Dipsey No 80

Claystone

14 1/2" ^{out} ^{of} ^{well} ^{stratified} coal

5" ^{of} ^{carbonaceous} claystone

bedding from 2" to 12"

of ^{broken} ^{siltstone} and ^{shale} ^{bedding} from 1/2" to 4" ^{mostly} ^{1/2"} represents ^{easternmost} known ^{hipps}

Sample No 1
Sample No 2

Hartshorne Coal

given by former chains
this is ^{of} ^{flat} ^{thickness}

#3 Hartshorne

15" good coal 60% medium banded

Sample badly weathered

Sample #3

#4 Section taken along drainage
swell from farm opposite
6 mi West of Harmony

200' plus of carbonaceous claystone
but ^{with} ^{fine} ^{part} ^{of} ^{the} ^{mass}

part ^{of} ^{bedding} ^{is} ^{fine}

6" ^{of} ^{coal} ^{thick} ^{bedded}

1/2" ^{of} ^{clay} ^{coal} ^{with} ^{thin} ^{bedded}

4 1/2" ^{of} ^{coarse} ^{of} ^{60%} ^{thick} ^{bedded} ^{has} ^{few} ^{small} ^{streaks}

Sample #4

#4 cont

37" Claystone silty carbonaceous
bedding from fossils to
1"

5 1/2" Sandstone Gray medium
grained, fine bedded
(silty sandstone & clay)
1" thick between sandstone
beds of 2-4" thick

48" Sandstone light gray to
gray bedding about 1/4" to 2"
Carbonaceous coarse grained

230" Sandstone light gray bedding
from 2" to 3 1/2" thick
beds have planar arrangements
beds of red siltstone
ripples and cross bedded.

43" Sandstone and silty
sandstone silty shales
to the layers 6" thick
and fine bedded.
partly sandstone is
in layers of 2 to 6"
and is fine grained
and micaceous

1/2" claystone carbonaceous f.

44" shaly medium bedded
excellent coal

shipped
Philippine
shipped

21" Claystone under from
black at top to light brown
at base, also becomes
silty at base no bedding

360" of sandstone coarse grained
bedding, trace 2" to 2 1/2"
majority about 10"

240" of the same thin grained
and light brown, bedded to
fine grained sandstone
shaly in spots

Probably just 55 above that here

Sample #

5 10" of ataba coal
underlain by carbonaceous
claystone

Shipped for
analysis

underlain by 3" claystone
and 3 ft of 8"-12" of bedded
coarse grained ss.

Sample # Coal is 60% thick bedded

6 12" of ataba coal same
coal as above only

only part 7 north of
lower section of this station

Sample # 8 3" of carb. cl. &
100% thick bedded coal

Sample # 9 2 1/2" of 108" 6 2 1/4" bedded
12 1/2" from bed mica coarse ss 9 1/2"

58.1
55.9

2.2 miles

South of Cen. at

Simpson

Route #7



#7 200' south of Chimney
 overturned 90° to the south
 Hartshorn coal is just a
 smut directly about the
 Chs 55.

Sample #12
 #8

skipped for
 analysis of ^{Al. in sample}
 overturned 80° to
 south

Sample #10
 #9

Base of Horsehead dam
 Sampled for *Bergströmium*
 analyses. Coal above
 Philpott

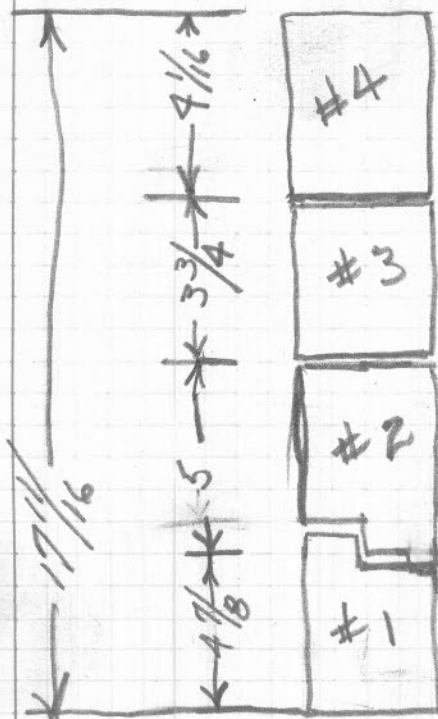


Sample #11

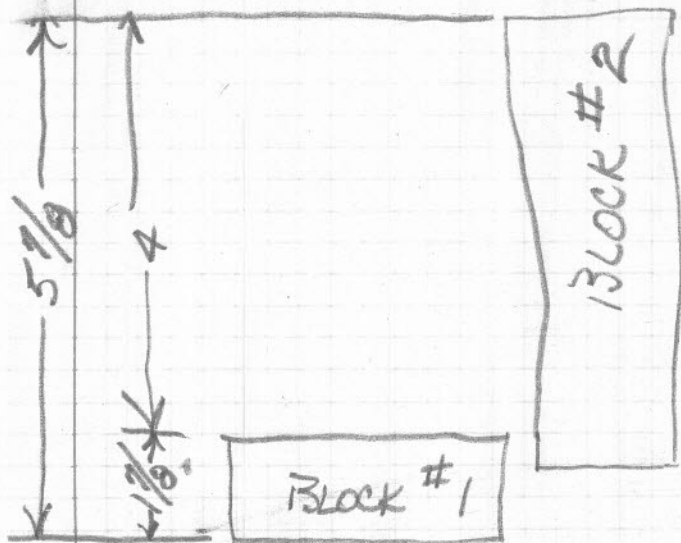
Base of Horse head dam
 Philpott coal sample for
 GERMANIUM ANALYSES.



SAMPLE #11



SAMPLE #10



Sample 13

Harts home west of mulberry

↓ UP
 Claystone 3'
 Coal 2"
 Claystone & Sand 4'
 Coal 22"
 Claystone 6' +

shipped for analysis

Sample 14

up ↓
 Paris South of Charleston
 claystone 3'
 Coal 20"
 Clay 4" +

shipped for analysis

Sample 15

up ↓
 Harts home west of Mulberry
 claystone 8'
 Coal 2"
 claystone 4'
 Siltstone 6' +

shipped for analysis

Sta # 10

Sample # 12

Hartshorn coal

↑
12" 60% medium bedded
coal.
↓
4 1/2"
↓ Bone & coal

Samples taken in Arkansas
for rare element analysis
by Zubovic

Lower Hartshorne
1/2 mile NW of Bates Ark.
Loc - Cen sec 22 - 3N - 32W

✓ #1
6 blocks
bag
3 blocks
2 bag
18 blocks
labeled Ark - BA - LH

Lower Hartshorne
3 miles west of Huntington, Ark
Sec 22 - 5N - 31W
Labeled Ark - Hu - LH

✓ #2
10 blocks
1 bag
9 blocks
1 bag

Atoka coal at Driggs
labeled Dr - at
located 33 - 7N - 26W

✓ #3 }
Atoka coal as above
labeled Dr - at - spl 2
Location 22 - 7N - 26W

✓ #4
Sample of Lower Hartshorne
1/2 mile east of Prairie View, Ark
labeled Ark - PV - LH
sec 13 - 8N - 24W

over

R.V. sample continued

10 blocks

1 bag

2 blocks

1 bag.

Sample of Paris Coal be
about $3\frac{1}{2}$ miles NW of Paris in
29-8N-26W sample from
mined coal and also sample
of mine water

Sample labeled

Ark - NS - P

Sample from North Side Coal
Co: Rt 2 Paris Ark.

Sample of lower Hartshorne in
road cut $3\frac{1}{2}$ miles NW of
Ozark. sec 14, 10N, 27W

one bag labeled

Ark - OZ - LH.

Sample taken from lower Hartshorne
2 miles NE of Hartman, Ark.

sec 7, 9N, 24W in stripping of
Ark. Coal mining company
sample labeled

Ark - ACM - LH

one sample roof rock

" " floor "

5 blocks

sample of rider labled

Ark - ACM - LHR

2 blocks

rider has pea cock luster

#8 Sample of Charleston coal (Philpot)
in skidmore Bros stripping
Sec 6, 10N, 23W
2 blocks
1 bag underclay
Sample labeled Ark-sk-Ch.

#9 Sample of lower Hartshorne
in brick pit, 3 miles south
of Hagarville.
Sample in 2 bundles labeled
Ark-EJ-LH
Sec 33, 10N, 22W

#13 Sample taken from Lower Hartshorne
1 mile south of Russellville.
4 bundles labeled Ark-KU-LH
Location - 20 - 7N - 20

#14 Sample of lignite taken from
clay pit at Mulvern Ark
Sample from upper bed labeled
Ark-M-UE
1 bundle, seven blocks
1 underclay

Lower sample Ark-M-LB
1 bundle underclay
1 " " roof

#12 3 bundles trees
1 bundle resin.

Location Sec 30 - T45 - R16W