

UNITED STATES
DEPARTMENT OF THE INTERIOR
DI-6

APPROVED DECEMBER 1941

Notes on Greenwood Quadrangle

- G-1 11-4N-31W about 15' of vltgy sl-f sandstone beds from 2"-10" might make building str
- G-2 3-4N-31W about 20' of. vsilty vt ss bds from 1/4"-2" irreg bd
- G-3 5-4N-31W 30' shale bdy from 1/6"-1/4" overlain by 10' of ltgy vt-f ss bds from 2"-14" irreg bds, convolute bdd in part
- G-4 4-4N-31W gy-bllk sh
- G-5 8-4-31 12' gy-bllk sh 1/16"-1/4" bdy overlain by 6' of ltgy vsilty vt ss
- G-6 11-4-32 directly underneath the ferrace is about 6' of gy wh sh that could be used for brick
- G-7 6-4-31 about 10' of vt-f silty ss irreg xbdd.
- G-8 1-4-32 40' dkgy-gy-bllk sh 6' of ltgy vt-silty sandstone beds 1/2"-6" ripple mkd. and silty m-dkgy irreg bds from 1/8"-1/2" ripple mks show current from the west; 30ft of dkgy sh

- G-9 16-6-31 6' of itgy vss uncd. lte frn
2-8" xbdy shows current from
north
- G-10 20 ~~16-6-31~~ 29" of coal in strip pit
- G-11 30-6-31 3' of limy clayey ft-mgy
f ss. contains abundant
Orinoids, Productids, and
spirifers
- G-12 30-6-31 about 15' of it-mgy f ss
scatt mgy fragt id qtz
- G-13 21-6-31 about 15' of gywh f ss
abundant mac plant frags
ext xbd. lte frn 2-4";
underlain by 15' of "sandy"
silty sh bedding from 1/2-3/4"
This unit underlain by 8'
of itgy well-cemented f
sandst. abund coaly plant frags
Whole kibble is Hartshorn
- G-14 35-6-31 15' of ^{m-gy} v^s sandy siltstn and v^{m-gy} silty
v^s ss. in ir bds frn 1/8-1"
overlain by 10' of it-mgy silty
v^s ss. in x bds frn 2-10"

G-15 24-5-31 Hartshorne about 3' of v silty
vf gy wh ss in irreg beds from
1/4 - 3/4"

G-16 19-5-31 Sandstone above and below
the coal is gy white vf-gr
beds up to 6" could be bldg st.

G-17 20-5-31 bldg sto 1-4" evenbd

G-18 2-4-32 Basal Sangama well-expos =
about 20' of v silty vf w cementd
ss and gy weather to ff-grgy
reg bd from 1" - 2 1/4"
about 10' in markings
they about 50' covered
bottom 6' partly exposed
seems to grade from a shale
into a sandstone.

the 20' of v silty vf ss
lower 10' has been severely
distorted by bedding flow
many fine examples
upper 10' is reg bd in beds
from 1-2" some bds are
ripple like

G-19

21-1-32 all black sh with scattered
beds and nodules of Fe-stn
to near top of hill. ss
shown below top of hill is
about 30" thick and is a drgngy
vshy vt gr. Then about 15'
of drgngy sh to base of
ss top of Hill. This ss is
vt gr and rests upon
sh with chert type contact
bottom 3' has beds of slty
sh up to 2" thick
Part of upright trunk 3" dia
of *Singularia*

G-20

36-5-32 From the range sta to look out
sta appears to be dk sh.
Lent is an ss. Can't tell and
can't get there because of
muddy roads.

G-21

22-7-32 Barr Excelsior Coal Co. Operating

G-22

13-6-32 Gynwh f-m qtzos ss massive

G-23

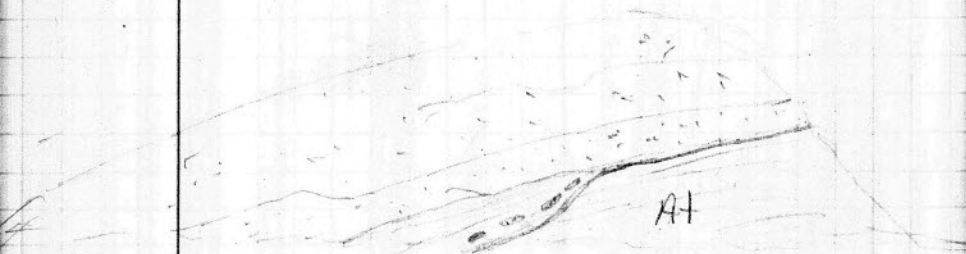
21-7-32

Contact between Hs & At as follows
Sandstone in Hartshorn is 1-2' thick
irreg. bed from 1-40"

West side of Highway 45



East side of Highway 45



Hs shale is blk sandy, silty blk + mica
Atolca sh is dk blk fissile mica
No coal bed on East side sandstone
in nodule like deposits is silty mag vt

- G-24 8-8N-29E Okla. Hqs. Hgy silty v. ss gtzose
beds from 1/2 - 2" weathered
- G-25 26-6-32 Cobbles of sandstone in high level
terracc.
- G-26 15-5-32 gywh f gtzose ss. float blocks
- G-27 25-5-31 44' x of Hgy gywh silty v. ss
gtzose. in beds 1/2 - 24" lags
with Channel type contact on
Atoka, has channel with
the Hqs thin beds of siltstone
sly sh and shale near base
thin lenses of coal near base
First Atoka sand down the
hill is 6' of H-mgy v. silty v.
w. mides in beds 1-10". ss is
ripple-marked and rests
with a sharp contact on
the underlying sh.
- G-28 36-5-51 Lower Sandy unit about 15' of
mgy silty v. ss in reg bds 2-10"
and mgy siltstone then 12' of
of dkgy sh and siltstone and upper
sandy unit is same lithology as
lower but is about 20' thick

G-29

36-5-31 about 30' of sandy zone in
beds from 1/2 - 6" thick unit,
becomes more silty and thinner
bedded upward. mgy & gr
irreg - regg - bedded

G-30

16-4-31

36" + Shale, coaly, blk abundant plant frag

18" Coal 70% thick banded

9" Shale blk, coal stgs coal 1/2"

4" Coal 80% thick banded

12" Shale, as above

9" Coal, 70% thick banded

34" Sh, Blk. scat Fe nodules
bdy flake macrocrat plants

26" Coal, 70% thick banded
has a irreg shaped coal
ball (sample collected)
18" x 12" dark appears to
be hematite and pyrite with
stringers of coal intruded
abundant fragments
showing original cellular
structure of plants

↓ up

G-30 Cont. (46-4-31)

- 18 Shale, blk, streaks and lenses of coal up to 6" some bony coal
- 11 Coal must be 95% vitrain in bands up to 1" thick
- 12 Shaly dkgy silty, abundant plant frags mostly fern pinnae
- 30ft Siltstone Hcy very fine, fine mica beds from 1/4" - 6" and Shale in units 1/2" - 12" dkgy bdy from 1/2" - 1/8" has some 1/4" - 2" bands of Festu near top
- 9" Coal 60% medium bed
- 12ft. Shaly dark-gy, bands of Festu 1/4" - 1" thick
- 5ft Sandstone, mgy vsilty, of glauc ss abundant bdy flow feature.
- 8ft. Shale, dkgy bdy up to 1/2"

Section in abandon Slope

- G-31 14-4-31 19" Coal 70% med bded vit
48' Shale with layers of coal
and bony coal up to 6"
11" Coal 60% thick banded
60" siltstone
8" Coal 75% thick banded
- G-32 17-4-31 End of Strip-pit - abandoned
Slope mining 2 beds, upper
is 15" thick 70% med banded
overlain by at 20' of
a unit that grades from
a lt. gray siltstone at base
to a dkgy silty shale at top.
Shale is overlain by gy white
v silty v ss g. case.
the upper bed is underlain
by 18 inches of shale bone
and coal beds up to 3 inches
the lower coal is 2 1/2"
Thick and 60% thick banded
underneath the lower
coal bed is at least
5 ft. of shale containing
coal beds up to 12" thick

- G-33 18-4-31 33" Coal 60% thick banded
overlain by gray & silty sh ss
irreg bdd. Bedding flow structures
- G-34 13-4-32 50 inch coal banding 85% thick
overlain by 8ft siltstone ngy
bedding from 1/2" - 2" measured
in abandoned slope
- G-35 13-4-32 47 inch coal bed banding 90% thick
overlain by 20ft of ngy silty sh
irreg bdd ss.
- G-36 9-4-32 Cracks in shale (as much as
3ft deep) filled with Terrace
Gravel, some bldrs as much
as 8" in diameter
- G-37 6-4-32 8ft blk sh contains strgs of coal
2" Coal
2" blk sh
2" Coal
8" blk sh
3" Coal
12" blk sh
6ft ngy silty sh

G-38

4-7N-29E Okla Quarry for building stone

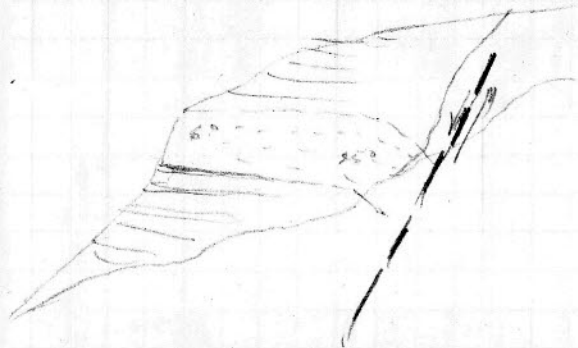
It drusy & silty w/ ss req bed,
in bds from 1-3"

G-39

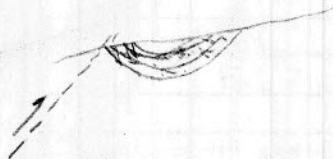
20-8N-27E Okla, Itgy f- m ss fairly clean
w/ry bd in bds 2-10"
at least 15ft of it

G-40

5-5N-33W Fault nearly exposed



G-41

4-6-31 Right close to fault in
west road ditch

G-42

7-6-31 Sample of fresh sandstone
from shot-hole and ~~only~~
same ss only weathered

G-43

35-7-31 Road metal quarry in
Hartshorne in general is
a gray vt. f. weatd ss
in irreg beds from 1-30"
at the base of a channel
trending S 35 W is
a conglomerate zone
zone is from 1-30" thick
has shale fragments
up to 3" thick 15" wide
and 20" long also Fe-stn
concretions ^{upto} 3" x 6" x 10"
Co zone is only on SE limb
of channel

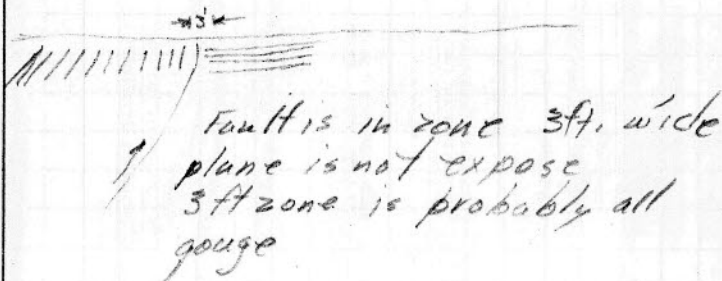


644

35-7-31 Quarries for 13th St.
gy wh. of gr bed from 1"-6"

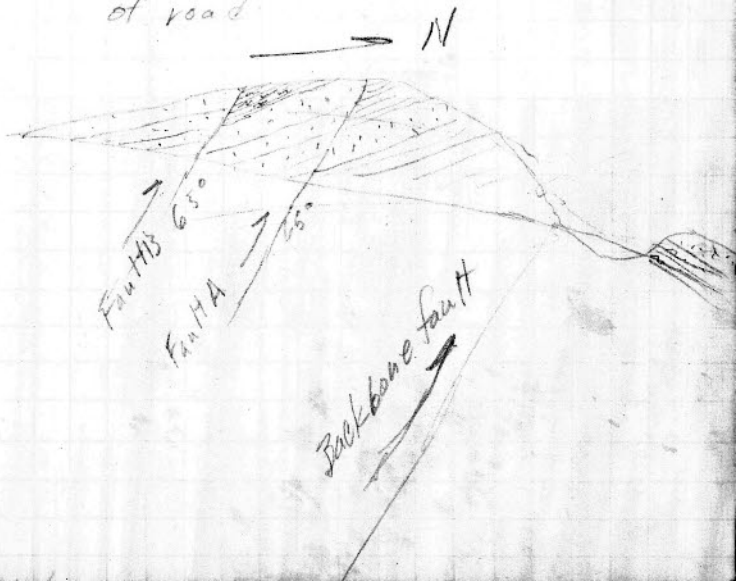
645

2-6-31 sections along ditch on
west side of road

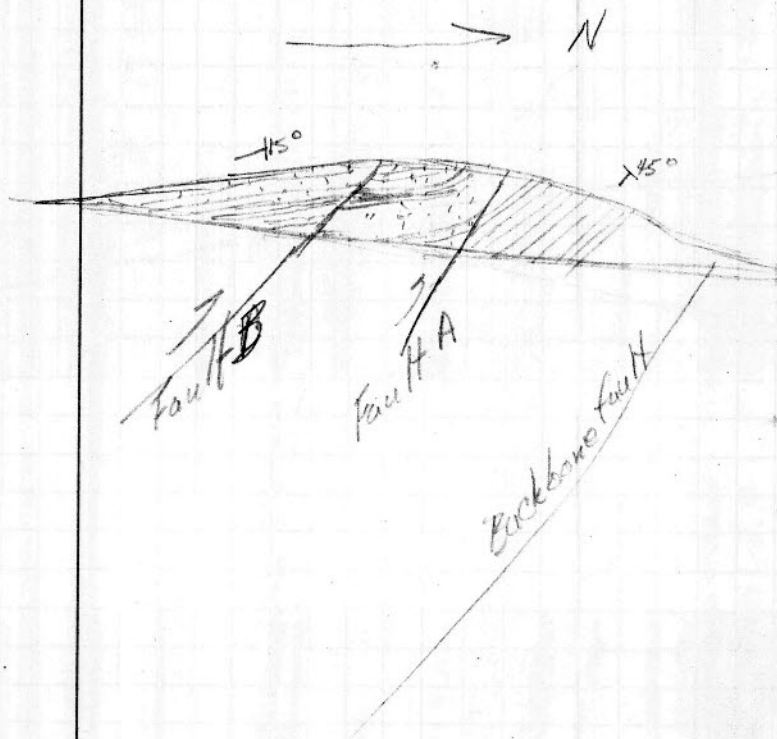


646

4-6-32 Section on west side
of road

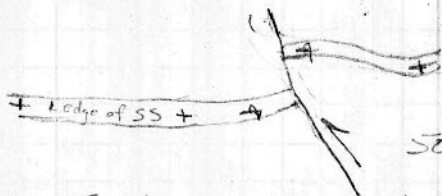


G-46 Continued 4-6-32



G-49

6-6-31

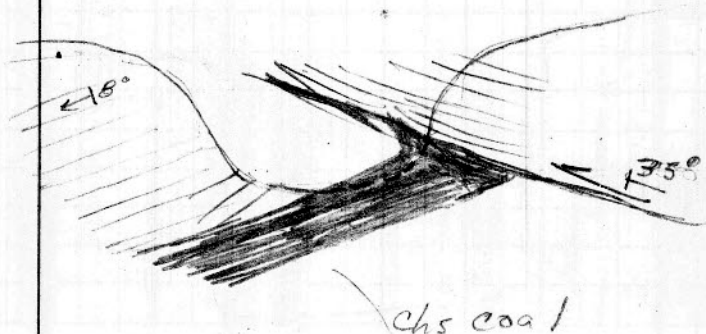


soft displacement

Fault not exposed, but can be accurately located

G-48 3-8N-27E Okla In creek bed between
Road and railroad
about 11' of dark gy. arg.
lms in one bed. Contains
abund crin, brachi, pelec,
gastropods, on weathered
end the upper and lower
1" weathers into Fe rich
extremely fossiliferous rock.

G-49 2-6-32 Cross section of east end
of strip pit



G-50 4-6-32 3 ft. shale blk plant frag

28" Coal 80% thick bedded

up 48" Shale dk gray - gy blk
Fest lentic up to $\frac{1}{2} \times 3$ "
bdg from $\frac{1}{4}$ to $\frac{1}{2}$

26" Coal 85% med bedded

36" Shale gy blk bdg up to $\frac{1}{4}$ "

72" Dk gray sh and med siltstone
sh in units up to 6" bdg up to $\frac{1}{4}$ "
Siltstone in beds up to 2 inches
40% silt

G-51 4-6-32 section in south edge
of strip pit.



Fault may not be major Backbone
fault because of its low (10°)
south dip.

G-52 17-9-27E Okla Fusilinids from River ter.

G-53 20-9-27E Okla Chert from River terrace

G-54 SE 36, 5-32 40ft. silty v fss
top 15ft. would make
Bldg. stone

G-55 NE 36-5-32 60ft silty v fss
even bed.

S Quachita

Province

Arkansas
Valley

N

Oark
Dome

