

Okolona

Jackson, Calhoun,
Holmes, Washington
and Bay counties.

Copied Mar. 15, 1921. From "Report on investigation of the water supply of Miami, Florida."

By
Clyde P. Ross, U.S.G.S. Nov. 12, 1919.

Log of well of Miami Water Company, Royal Palm Golf Grounds, Miami.

Thickness	Material	Depth
15 ft.	oolitic limestone	15 ft.
30 "	cemented shell fragments with siliceous sand	45 ft.
2 "	hard yellowish limestone	47 ft.
30 "	shell fragments, siliceous sand	77 ft.
10 "	sand, siliceous, fine and coarse	87 ft.
2 "	limestone, hard light yellowish	89 ft.

Nulva

City Supply

1 - 125' - 10' - - 15' - 1914

1 - 125' - 4' - - 15' - "

water soft
150' ft to rock

well at plant 600' - 700' flawed
sugar water highly mineralized
not potable.

Ferry Pass.

1 - 63' - + 1' drawn water.

1 - 64' - + 1' soft water.

Ponce de Leon

Hughes & Simmons

200' - 6" - 170' - + 3'

City well.

200' - 6" - 170' - + 3'

Ponce de Leon Turp Co.

200' - 6" - 170' - + 3'

Cottontail

200 feet up. very hard.

water at 100 ft hard.

head - 30 to 40'.

Cottontail Milling Co.

Mose Spright.

G. W. Jackson, Waverly R. B.

owner Hydro-el. plant.

10-11-22

Send R. J. McCreary
Evergreen, Ala -
a State map and also a
road map -

Gas at Chipley - 5 gal 1.30
 Oil 1 qt .25
 1 qt oil at Marianna .25
 2 gal gas at Quincy .62
 1 qt oil .20

Ferry at Chatto 1.00
 Hotel at Chipley 2.50
 Dinner at Marianna -
 6636.50

2,512

Feb. 21.
 8 gal gas at Tallahassee 2.08
 1 qt oil " .20
 4 gals oil at Marianna 1.00
 4 gal gas at Quincy 1.04
 1 quart plug at Chatto .85
 at Marianna 3 gal gas .81
 2 gts oil .40
 6290
 6173
 117. miles.
 Tallahassee to Round Lake
 to Chipley & detours.
 6173.
 Ferry at Chat. 1.00
 Dinner at Marianna .60

Feb. 22.
 Gas at Chipley 1.15
 oil 2 gts .40
 Work on car at F.P. 7.50
 638
 Hotel bill at Chipley 2.50.
 6290.
 Dinner 65.

Gas 1.04
 oil .25
 Gas at Milton 4 gal 1.04
 oil " " 1 qt .25
 Oil at Pensacola. .25
 Hotel bill 3.25
 6365
 Dinner at Pens. .75
 Supper at Pensacola.

Storage 25.
 Gas 92
 oil 20
 oil at Milton 25
 Gas at Crestview .80
 oil 25
 oil at DeFuniak 25
 oil at Power & Son. .25
 Breakfast .60
 6484.
 Ferry at F.P. 1.50
 " " Cary .50
 Pulling out 2 mud 1.00
 Spark plug .75
 Milton Dinner .50

Chapman & Co. J. B. Allen Secy & Treas

breastmen

well average about 80'

exposed - total 65' - 2 1/2" - 1913.

oak hole 50' - 2 1/2"

Waller's Cope 130' -

Mohr

2" - 2 1/2" - 8' - AEP Amey

Joski Lumber Co 210 - 1 1/2" floor 35-40'

Lo H R Co 2" - 2 1/2" - 35 to 40'

J. A. Joski 2 12' - 1 1/2" -

2-4' clay soft water
2-4' gravel no fr.
2-4' gray clay
10' ± quick sand

Feb. 20. 1918

From Marianna to the Apalachicola River.
No exposures observed from the train that
seem to show clay. Also no cuts deep
enough to reach unaltered red sandy
clays or even bedded sands.

Limestone Rock is exposed in a
cut near a milepost, probably
M.P. 209, at least M.P. about 2
miles west of the river. A ~~large~~
creek road crosses the track just at
the east end of this cut. The rocks
on the west end of the M.P. are
little west of the rock.

Feb. 20 1918

East from River Junction no clay
was seen in the cuts up to Quincy. No cuts
deep enough to serve well for
showing the clay or sands in position.
No fuller's earth seen, although the
horizon of the earth possibly is
indicated by seepage water.

From Quincy to Apalachicola

No new exposures of clay or fuller's earth was
seen. The one Fuller's earth exposure
previously noted seems to be about
midway between M.P. 183 & M.P. 184.
A dirt cross road crosses the track at
M.P. 184, apparently a plan to turn
road. M.P. 182 is at Little River bridge.

From Apalachicola River to Tallahassee

No promising exposure is seen in
the cuts. All exposures seem too
shallow to show unaltered materials.

Okaloosa County

11-3-20

In company with Dr. E. H. Sellards made an auto trip through Crestview through Milligan, Baker, Otahite, Blackman, Oak Grove. About 1 mi. south of Otahite a mound was found on the hills near the ^{left} bank of the Blackwater River. Broken oyster shells were the only shells observed marking up the mound. The bank of the river here was composed of sandy, mottled clay, about 6 feet or more above water level. This mound probably represents the Alum Bluff.

Oak Grove locality visited and samples of the Oak Grove mound as exposed at the ~~top~~ locality on the Yellow River were taken. At the time visited the water was rather high almost covering the base of mound.

Washington County

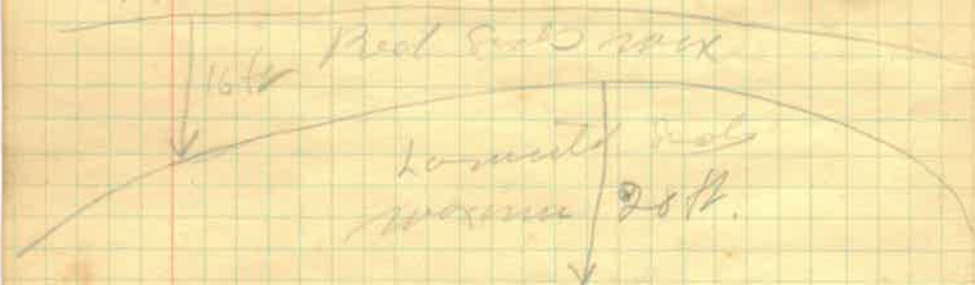
April 24, 1928. Examined shell mound at the "deadening" a Lake Basin. About 6 mi S.E. of Tiller. + 5 mi. N.W. ^{Washington} ~~County~~ ^{County}. Exposed shell bed. Shell very abundant 9 ft. Below water, about 5 ft. ^{section 18, see map.} From Vernon to Cronfina a country broken up by many lake basins all about 70 ft ± below the general level. Sand hill country.

Washington County

April 24, 28 Section of "Clay" Bluff

Mossine red sandstone 16 ft.
Laminated clay & pebbles 11 ft.

The Mossine red sandstone is exposed unconformably on the laminated clay below. But the surface is ^{very} steep & difficult to climb.



On the west side of Haines Creek the land between 20 and 30 feet below the margin of the bluff is all of the material of the bluff may have slipped somewhat. But apparently the actual level of the laminated clay is less than at Mossine further east. Probably not over 50 ft. above Haines Creek level (rough estimate). Alum Bluff should be below but not exposed.

Cut in By of Turn 8 Day Head
About 11 mi out from
Panama. Come Red Sea

Top of limestone at
Falling water sink 184
184

April 1918 Jackson County

Level of Rocks East of Cottondale

B.M. M.P. L. 779 = ^{actual elev.} 191.6

H.S.	F.S.	
3.7	2.57	11.9
<u>7.6</u>	<u>.00</u>	<u>2.57</u>
11.3	2.57	8.73

Top of rocks is 8.73 ft above m.p. 779.
 also add about 4.27 " for rock part of tub =
 Top of rocks above m.p. 779 about 13 ft.
 Top of rocks at here about 144 ft.

3-29-18 Jackson County

M. 9-9 1918. Water level in Chipola River

Water level below bridge floor at M. 9-9.

Level of highest limestone cap of River.
 from water level this date

H.S.	F.S.
22.60	6.55
5.55	.40
12.07	.05
<u>11.25</u>	<u>4.55</u>
5.3.47	11.55 = 41.82

Top of Limestone above the River 41.70 ft.
 water in river this date is 59.53

actual level top of limestone 101.25 ft.

M. 9-9 1918. Level of water in Chipola River
 this date. B.M. from rail at m.p. 789.

H.S.	F.S.
5.25	27.70 = 22.45
22.45 ft below base of rail at m.p. 789 (C. 35)	
M.P. is 87.7 - 5.7 = 82.0	82.0 - 22.45 = 59.55

Level of water this date from base of
 rail on tudge is 24.35 ft

actual level of water in the
 Apalachicola M. 9-9 1918. B.M. on tree 56.70
 plus fall to R.R. tudge = 61.4 - 3 = 58.40

H.S.	F.S.
12.44	5.59
<u>12.44</u>	<u>5.59</u>
17.93	2.65

actual level river water this date 47.35
 difference in level, Chipola about 10 ft higher.

3-28-18 Jackson County

M. 9-8

Compass Lake said to be
 75 to 80 feet deep at deepest
 place. no drilled wells

M. 9-8 Pond Lake said to be
 65 feet deep no drilled
 wells at Pond Lake

M. 9-8. Section in Railroad Cut at
 Pond Lake

Loose yellow sand	4.0 ft
Brit. vertical & horizontal sh.	6.5 "
Pink clays	2.0 "
Partly covered by mud	
clays with some sand	<u>14.8 "</u>
	27.8 ft

1.18
6.0
 5.82

Chattanooga C 11 = Louisville (L 803).

H.S. on the top of ridge near road	.35
#3	7.25
.00	7.6
<u>2.57</u>	<u>3.7</u>

L 778 m p

3-28-18

Bay County

M. 98

Well at Betha. Said to be
deep water stands 30 ft from the surface.

Betha & Sons Co.

Section on Eruption Creek on Bryant Death Hill
from into level in Eruption

H.S. 1 F.S. Exp. 9 ft. O'Connell Sails.

11.2 1.00

11.2 1.90

9.9 4.53

10.1 9.10

42.40 14.50 = 27.9 ft. coarsest

9.20 2.30 = 6.9 ft. May be a

2.60 6.00

6.50 2.50 = 5 ft. coarsest

11.90 1.65 = 10.25 micaceous sand.

11.40 2.35 = 9.05 coarse oc-

5.65 1.45 = 4.20 light fairly

11.08 1.20

12.00 1.70

12.00 3.40

12.00 .00

3.60 1.00

142.33 37.05 =

46.38 46 ft. fine

quartz. Red

sand. To the

odd about 15 ft

to full top of plateau

= 61.38

3-28-18

Bay County

M. 98

Juniper Creek when crossed
6 mi east of Fountain is a flat
creek with gradual slope on either side.
Reported by Walter Ferguson, Sun
Hill. Not to have either shell or
rock at any place in its course.

M. 98 The Country east of Fountain
to Clarksville except where cut by
streams is remarkably level, although
there are a few rounded hills
elongated hills or terraces. Also
level onto the west toward Eruption.

M. 98. Rept drilled well at
Fountain 63 ft. Ends in sand.
Said to have found large
shells. Altho depth of shell not
recorded.

Cathlamet County

28

Memorandum for Art. Paul.

L. & N. Station Bone & Bone.

Set 7 loads of the river or old stream to
30.20 actual

25741 was paid of track at Sta 1500

points with one by rail is 56.80 =
Station 1480 on a track is 57.40 =

$$\begin{array}{r}
 52.68 \\
 6.30 \\
 \hline
 46.38 \\
 25. \\
 \hline
 61.38
 \end{array}$$

$$\begin{array}{r}
 27.90 \\
 6.90 \\
 \hline
 10.25 \\
 9.05 \\
 \hline
 41.80 \\
 58.90
 \end{array}$$

$$\begin{array}{r}
 2.1 \\
 8.5 \\
 \hline
 10.6
 \end{array}$$

Below the section this
stream cuts through the
Alum Bluff through Sect 22
into and on to S.E. 1/4 S.E. 1/4
of section 21 & then 98
nearly middle of the section. Rec
due S.W. The lowest exposure
a hard sand line edge. Affected
this stream cuts Alum Bluff to
near the base.

Summary of section:

Coarsest sloping mostly red sands,	61.3 ft.
Alum Bluff mostly fossil- iferous to the water table	58.9 ft.
	<u>120.2</u>

To the lower exposure of the
Alum Bluff probably gives
about 10 to 20 ft additional.

3-26-18 Allhorn County
M. 26. Alum Bluff Sited at
May's mill (Cotton mill) as reported by Clapp.

M. 26. Chipola more on ten
mile Creek. From water level in Chipola
at water level Chattahoochee limestone.

H.S.	F.S.
9.9.4	1.00
9.9.5	.30
9.87	3.53
8.35	8.45
8.20	6.40
8.10	6.55
1.80	5.25
3.55	11.90
3.60	16.44
63.36	58.84 = 4.52 Level of water
11.44	.10 in stream at coming 1/2 mi
15.45	4.66 from the river, about
4.60	.30
13.40	.30
14.00	3.00
11.55	18.10
4.20	8.20
.00	1.00
14.65	.25
7.50	4.50
15.60	6.10
1.70	1.25
177.49	100.60 = 77 ft top of Hill

3-27-18 Allhorn County
(near Clarksville)

M. 27 1918. Level of Chattahoochee
made on Four-mile Creek. Exposed
on west side of Public Road crossing

H.S. From water	F.S.
9.10	2.80 = 5.30 ft Alum
5.75	Bluff Sides
12.00	2.15 = 3.6 ft sand mound
11.60	1.00 = 12 ft sand mound
12.00	.00 1st clay on river
12.00	.85
8.95	1.65
11.10	1.40
9.60	.05
92.10	4.90
.35	13.30 = 18.80 + 6 = 85 ft
4.55	about water level
3.06	7.90 = Blountstown
1.20	70 ft above Hill
4.75	Chattahoochee
.80	Mud above river
1.80	8.36 + 5.30 =
1.20	13.66 ft.
1.50	
3.85	
3.20	
118.21	30.75
	109.85 = 8.36 water level
	at mud
	exposed above
	river level

3-27-18 Allhorn County
M. 27.

Examined Four mile Creek at
the road crossing about 3 mi up
stream from Clarksville.

At this crossing the Aluminous
clay is at water level the shell
does not show, but is said to
come into sight a short distance
below this crossing.

About 1/2 mi up stream is
a much deposit, apparently
an old river bed up which
the stream is now cutting
into. This is seen on the north
side of the stream.

Stream height of water in
Chapala River July 12, 1916

H.S.	T.S.
9.94	000
14.95	.00
<u>24.89</u>	<u>.00</u>
	1.20

= a rise of 25 feet from low water.

9.94
14.95
24.89

11.90
3.55
15.30
30.75

River Level in Chapala M. 26, 1918
16.25 below floor of bridge at Chokorville.

Pink clays laminated and
apparently in position in the
wall cut at the river at from 20 to 25
feet above the river. Hence near or just
above the level of the alluvious clay.

H.S.	
177.49	160.60
6.03	.00 = { 83 ft above river at top of hill.
5.20	11.85
.60	12.00
3.10	8.30
4.30	6.65
2.21	4.35 = Bone on Hill side
<u>198.93</u>	<u>143.75</u> = 55.18 ft.

1.70	11.88
3.70	8.20
1.63	9.50
3.25	12.05
.95	5.60
<u>213.16</u>	<u>190.98</u> = Top of Chapala wall
.80	10.80
213.96	201.78 = Water level at
about 1 1/2 mile	End of Chapala wall
	12.18 ft

15.0	3.26
<u>3.90</u>	<u>4.10</u> = Bone on Pine Stump
	Black Pine tree.

Exposed Chapala on Ten Mile Creek
or ten mile bridge. Water level above Pine
about 15 ft. Bone about water level.
Sandy soil with some shells on the 4 ft.
along the river.

3-27-18

Calhoun County

M. 27.

West from Blountstown
up 4 mi creek. Level open
pine without undergrowth &
with little soil about 3 or 4
miles. Soil sand oak country
there for several miles
so named because of open
space running NW & SE.

3-27-18

Calhoun County

M. 27. Exposure of *Cladonia* *cladonia*.

on 4-mile creek about 6 mi N,
west of Clarksville. Section 34. T, R 11

Marl bed including *Mastia congesta* &
venas mercenaria. below water level 34.

Aluminous clay to 34 = 84

Sloping hill to upland from water
level in stream by road level 12 x 56 = 67 ft.

Thin exposure is on the hills
place. Reported by J. H. Phillips
Clarksville on in Sect 34. T. N. R. 11 W.

Send Rpt to J. H. Phillips.

3-28-18

Calhoun County

M. 28.

Exposure of peat in small tributary
to Lumps Creek in or near Section 27.
R. 11 W T 1 N. The peat seems
rather pure in quality. Was found
to have a depth of at least 3 ft.
A similar in location to the swamp
deposit noted near Loring in Liberty
County. Evidently represents an
former bog. now filled
and covered by sand & now
uncovered by the cutting of the
small stream.

Similar peat is reported
to be observed in many places
but down in the area.

3-26-18.

M26

Jackson County

Limestone county south of Appomattox
and Great Bridge & within about 9 miles of
Alto. 3 mi N.E. of Alto is
a sandy country. Sand daps. Struc is
like those of a non limestone
country. Miocene may or may not
be present.

Jackson County

med.

M. 26. 1918.

Level of limestone about 2 mi
west of Appomattox River.

B.M. Mib just L & R. P. 809
Actual level M.P. 809 is $106.1 - 5.7 = 100.4$ ft

H.S.

9.0

F.S.

.55

= 9 ft of limestone
above Base of soil at M.P. 809. = 8.5 ft.
Elev. of M.P. 809 is $106.1 - 5.7 = 100.4$ ft.
Elevation of limestone = $100.4 + 8.5 = 108.9$ ft

Altho the highest exposure of rock in this
cut this is not necessarily the actual top
of the formation since part may be
lost by erosion where the rock comes
to the surface. The rock has
the characteristic of the

Chattanooga Limestone.

This rock is probably near the top of the formation
as found in the locality. We were just west of
M.P. 207 in a cut is seen about 15 ft of
red sandstone. Miocene cut probably is present
as the level of M.P. 207 + about 5 ft.
Locals about 1 mi east of Snodgrass.

Jackson County

M. 5 Snodgrass to Blountstown

Land forming country mostly level
for several miles. Fills on
slightly rising with long dry pine
One exposure of Chattanooga limestone
seen on road about 10 miles
south of Snodgrass. Material along this
includes granitic pieces of several
pounds weight.

West of Blountstown is rolling sandy
lands. Beyond this for last 10 miles
to Blountstown is level land made
of it good farming land.

No new wells seen &
no exposures except the one
showing of rocks.

On the hills about 1/2 to 2
 mi. west of Sweets. The
 red seeds remain in place
 & in at least 50 feet above
 the general level of the
 elevation of about 8 ft
 above sea.

$$\begin{array}{r} 11.25 \\ 346 \\ \hline 4.45 \end{array}$$

$$10.25$$

$$\begin{array}{r} 12.1 \\ 1.9 \\ \hline 14.0 \end{array}$$

$$\begin{array}{r} 10.90 \\ 4.70 \\ \hline 15.60 \end{array}$$

$$\begin{array}{r} 11.6 \\ 1.3 \\ \hline 13.2 \end{array}$$

$$\begin{array}{r} 4.3 \\ 11.15 \\ \hline 15.45 \end{array}$$

$$\begin{array}{r} 2.1 \\ 5.35 \\ \hline 7.45 \end{array}$$

$$\begin{array}{r} 8.1 \\ 8.34 \\ \hline 16.44 \end{array}$$

March 1918. Merriam.

Level. Left maining Hopkin	77.95	
(Correction take away 5.7)	78.13	corrected.
Level. M.P. 812. L+N.	84.7.	79.0
" " " " " "	88.5	82.8
" " " " " "	81.1	74.9
" " " " " "	81.0	74.8
" " " " " "	81.9	75.4
" " " " " "	80.8	74.4
" " " " " "	80.7	74.3
" " " " " "	80.6	74.2
" " " " " "	80.5	74.1
" " " " " "	80.4	74.0
" " " " " "	80.3	73.9
" " " " " "	80.2	73.8
" " " " " "	80.1	73.7
" " " " " "	80.0	73.6
" " " " " "	79.9	73.5
" " " " " "	79.8	73.4
" " " " " "	79.7	73.3
" " " " " "	79.6	73.2
" " " " " "	79.5	73.1
" " " " " "	79.4	73.0
" " " " " "	79.3	72.9
" " " " " "	79.2	72.8
" " " " " "	79.1	72.7
" " " " " "	79.0	72.6
" " " " " "	78.9	72.5
" " " " " "	78.8	72.4
" " " " " "	78.7	72.3
" " " " " "	78.6	72.2
" " " " " "	78.5	72.1
" " " " " "	78.4	72.0

L+N Profile
3.7 ft too high

Merriam
near Merriam
Level of

Level at Merriam Station L+N. 120.76. 115.06
Level of end of track at Merriam River 56.90.
" 387 ft. west of end of track (Sta. 1500) 56.90.
" 1450 57.40. 51.7

April 27, 1917.

Mr. W. J. Jenkins, Round Lake
Reports Merriam.
Also R. P. Byrd, Round Lake.
Mr. Jenkins says ground level at
ridge just N. of station is 268 ft
above sea. Only some level on
ridge south of station.
Also practically same level
on the higher end hills of
South Washington County.
Some essentially for Round Lake
Oak Hill, Orange Hill, Derby
Hill in Washington County
& for Knox Hill west of the
Clackamas River. That
from hill to Alfred (Creek) is
about 160 feet. Still farther
also about 160 feet below
top of hill. That is about 168-160 feet
Rise from Vernon to top of South hills
about 160 feet.

April 27, 1917.

Shovel on property of Mr.
Shore. Sect 7. T. 3 N. R. 11 W.
Cut copper core partly 3 or 4
across a little further down.
Level. Property 70 feet below the top of hill.
Another outcropping found to
be found on Sect. 14. R. 12 W. 9 N.
About same elevation.
Apr 27. Still bed on Sect
12. T. 3 N. 12 W. Copper still
in clay. Elevation about
160 below top of hill at
Round Lake.

April 27

Gravel about 1 mi. West of
Round Lake. Elevation about 30
feet below gravel hill base or the
230 or 238 above sea level.
White gravel (2 plots) on side of
the hill representing gravel
remaining from disintegration
of the clay. Rocks all quartzite
gravel size up to about 2 in long
mostly water worn rounded.

Sept. 14. T. 3 P. 12

Gravel, Larkspur, Meyer &
Alford Co.

Knop & Lohs / Washington
over or after 100 feet.

Difference in level of holes
Round hole & Compers hole

60 feet (water level)

Level Round hole

Station as per

H.S.

7.2

H.S. Station

7.2

1.02

8.22

TS - A.C.V.
level hole

6.4

water level as per
H.S.

10.23

8.43

19.38

8.22

11.16

Water now 11.16 ft low
two feet of depth.

84.7
5.7
79.0

△ △

A

A

A

A

A

A

79

79

79

79

80

80

80

80

Green Bush.

Sect. 24 - 120 N $\frac{1}{2}$ of NW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$

4. N. 12 W.

Ready Creek. Above the railroad
as made as 25 ft.

Quarries on Sect. 24. NW. 12 W.
Some pebbles.

1917

Braz. County

81

Apr 26. Panama.

Samples examined of a coarse sand consisting of fragments of quartzite. fragments up to $\frac{1}{2}$ in. Apparently rather rotten, & often crumbling. They come from the beach near the mill in St. Andrews. The sand contains a sand shell & almost all mussels.

At this place is seen an exposure of clay very much like the Miocene Aluminous clay about 3 ft. exposed.

We went through some trees to reach a subdivision of the land which by means of a fence seems not to be sufficient.

At the beach near Panama City. 5 ft clay & 5 ft sand.

Braz. County

82

April 26, 1917.

At mill on Macconian about 2 mi from head of entrance into Escarpment. Aluminous clay is exposed by mill dam. Mill said to rest on the shell bed. Shell bed also found some here on down stream to Escarpment.

Henry Poggett's mill. Probably on Set 14.

83

Braz. County

April 26, 1917

From Bennett's P. O. Dredged material to the upper bridge across Macconian creek to Fort Union. The whole way is over a perfectly level plain like that east of Panama. Pine timber now cut off & sent out growing up. No exposure except an occasional creek & tributaries. There are coarse sands. Also "chert" reported said to be present. White clays alternating. No lake exposure on section & about 6 mi north of Escarpment.

Bay Area,

84

Apr 26. At Panama

1917

Compass Bids Co.

Wet. J. J. Conner.

Bids made is being used
in Panama.

Washington County

Matson reports Bluish
Green shell rock on East Bank
of Holmes Creek 4 miles south of
Vernon

Also at Miller's Ferry.