

No. 7.



H. Sellards
Norman Gunter.



PROPERTY OF
FLA. STATE GEOL. SURVEY

Suwannee & Levy Counties.

Indexed June 18, 1915

E. H. Seligman
Herman Hunter.

Tallahassee,

Florida.

Florida State Geological Survey.

Index

[illegible]

E. H. Deland

County	Town	Topographic Situation of town	Number and kind of Privies, Cesspools, etc.	Disposal of Sewage	General Water Prevalence of Typhoid etc.	Sanitary cond. of wells.	Resources. (Cont'd.) Suggested improvements	References to supplementary notes.
Suwannee	Hill	Flat.	many	no sewage system	Some few cases during summer '07			
"	Pine	Hilly	many	" " "	none.			- water level is 6 ft. to 8 ft. from the surface depending upon gen. level
"	ms	Hilly			None reported			water stands 50 to 60 ft from surface = about 43 ft above sea.
"	Falm.	Hilly			None reported			
"	Linn	Rolling	Sewage wells.	By wells.	Doubtful		Sewage system.	
"	Braz.							
"	Haw.							
"	Suw.							
"	Ala.							

E. H. Allard

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E. H. Bellard

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E. H. Delaney

		Public Water Supplies.										Suwannee Co.				Notes.						
County	Town	Public-private Ownership	Source well, spring etc.	Geologic Source	no of wells	Depth	Head about	Distribution or Storage	Services	Five miles Hydr main	avg. daily Consumption	Dom. press.	Fire press.	mineral character	Capacity of Res. or Stand pipe	Elev. above T	Use of meter	Sufficiency	Pumped direct or from Reservoir	Di	Depth	
Suwannee	Lire Oak	Private Public	Well	Peninsula Limestone	1	6	1080	-50ft. Storage	city supply	37	5 mi. gls. daily	500,000	43 lbs.	70 lbs.	Hard water	85,000 gals.	83+ 20 103	no	yes.	Reservoir	25ft.	15ft.

E. H. Gilman

County	Town	Topog. Location Well or Sprg.	Relation to Town.	Direction of movt of Ground Waters.	Public Water				Supply Sufficient	Changes Contemplated.	Suggestions.	Remarks. - Supplementary Notes.
					Distance from	house	barn	cess pool	prairie			
Swansee	Liv	Level	Level	N	near	near	near	near	near	yes	To move water works one mi. N. town.	

E. H. Bellard

Springs.

Swanwick Co.

County	Nearest Town	Direct Dist.	S	T	R	Q	Owner	Name of Spring	Character of Water.	Discharge	Nature of Mineral Deposits	Temp.	Variations of flow, - seasons	Geologic formation from which water comes	Nature of passage.	Manner of Emergence.	Nature of Stream
Swanwick	Swanwick	N 1/2 1 mi.					Swanwick Springs Co.	Swanwick Sulphur Spring	Sulphur water	Reported 52,000 gals. min	none	76°	not determined		Solution channel	Boiling spring	directly into Swanwick River - #1.
"	Peacocks	South 1/8 mi					1 Davis	Newland's Spr.	Lime water	—	none		With Seasons (appreciable)	Aluminum limestone	Solution channel	Boiling Spr.	Solution channel ge 1.

Topographic Surroundings	Distance from nearest				Is salinities pollution	Is spring muddy after rains	Spring uses		Trade name of water	Improvements at Spring	Unit shipped	Price	Remarks.
	House	Pine	Deep	Pool			for drinking	for medicinal					
Hammock land, slightly rolling & river.	near	-	-	near	not probably except by overflow of river.	no	Resort and bathing		Sauvamee Springs water	18 Cottages, 1 Hotel, Electric plant, pool, pavilion.		\$2.00 per 12 gallons.	For analysis see supplementary note pages 2 Note Book #1.
Levee Rolling	near	near		near	Improbable	no	not used		none	None	none	-	See note 2 page 1.

E. H. Delbridge

County		near	Dist.	STRA	Owner	Driller and Address	Type of well	Date sunk	Elev. above sea	Depth	Diameter	Length of casing	Depth of prim. supply	Depth of secondary supply	Geologic formation in which wells stands.	Geologic source of supply	Head	Yield	Spec. or desc.
Suwannee		Pine mount	near		Green, Pennington Co.	G. M. Harnage, Jacksonville.	Driven			108 ft.	2 in								
"		"	near		F. M. Green.	Henry Stanton, Columbia City.	Driven	1906		87 ft.	2 in	Entire	about 75 ft.		Shinarump		- 75 ft. max.	none	surface.
"		"	near		J. D. Stanton	Henry Stanton, Columbia City	"	1904		95 ft.	2 in	Into well				Shinarump	- 67 ft. max.	none	
"		"	"		James Smith	Berry Bird, Live Oak.	"	1902		104 ft.	2 in	84 ft.					- max.	none	information
"		"	"		R. L. Robinson	P. M. McNewmans, Bowling Green.	"	1904		106 ft.	2 in	all.				Shinarump	- 80 ft. max	none	
"		"	1 1/2 mi. S		E. R. Hoff.	" " " " " "	"	1900		105 "	2 in	75 ft.					- 60 ft. max	none	
"		McAlpin	near		A. L. R. R.		Drilled		103 "	140 "	4 in						- 50 ft. max	none	
"		"	"		maugum + Batlin	Wiel + Griner, McKinley.	Driven	1906		118 "	2 in	100 ft.					- 60 ft. max	none	
"		"	1 mi. E.		B. W. Greene	"man" Tedder, Melbourn.	"	1906		85 ft.	2 in						- 79 "	"	
"		"	2 1/4 mi. E.		J. E. Greene	" " "	"	1906		85 "	2 in						- 75 "	"	
"		Pine mount	4 mi. S 1/2		J. E. Roberts	P. M. McNewmans, Lucaville	"	1905		236 ft.	2 in						- 60 "	"	
"		Melbourn	6 mi. S 1/2		H. V. Mosley.	McHraue, Live Oak?	"	1900		110 ft.	2 in	To rock							was always factory.
"		Live Oak	1 1/2 mi. S		W. L. Noble	Taylor, Live Oak	"	1907		98 1/2 ft.	2 in	85 ft.					- 63 ft.	-	
"		Balmouth	1 1/2 mi. S		E. W. Milliner + Co.	H. B. Smith, Lee.	"	1907		84 ft.	3 in	60 ft.					- 60 ft.	-	
"		"	"		" " "	" " "	"	"		96 ft.	2 in	80 ft.							

E. H. Bellard

County	Section	Mineral Character of water	Distance from nearest House	Crop	Price	Barn	are protecting clay beds present	so well properly used	so well probably polluted	Wells	Uses	Does it harm hills or roads casing	Suggestions	Swanwick Co.	Remarks
Swanwick	Pi	Lime													
"	"	Lime							no.		milling purposes	mounts the			Lime rock about 30 ft. from surface.
"	"	Lime					clay at 15 ft.		not likely		Household & stock				
"	"	Lime									Reinforcing purposes	mounts			Water had reported as 40 ft. but information was unreliable.
"	"	Lime					clay at 4 ft.				Household & stock				Soft lime rock at 54 ft.
"	"	Lime									" "				
"	"	Lime									R.R. Use				
"	"	Lime									Saw mill purposes	mounts			Lime rock near surface.
"	"	Lime									Household				
"	"	Lime									Gen'l Household				
"	"	P. no lime													
"	"	Lime									Gen'l Household				Well not in use - water was always muddy and therefore not satisfactory.
"	"	Lime									" "				
"	"	Lime									Asphaltum still				

E. H. Bellard

County		March Town or PO	Point Dist from PO	Dist from PO	S	T	R	Q	Owner	Driller and Address	Type of well	Date sunk	Water from sea	Depth	Diam.	Length of casing	Depth of prime cost supply	Surroundings	Depth of second any supplies	Geologic formation in which well starts	Geologic source of supply	Head yield	Shower or over
Surroundings		Falmouth	S 1/2	3 1/2 mi					E. A. Hodge	Allison Wheeler, Lee	Driven	1904		95 ft.	2 in	60 ft.						75 ft.	over
"		"	E.	3 mi					M. F. Faircloth	Sam Tucker, Howling (?)	"	1904		74 ft.	2 in	60 ft.						"	"
"		"		near					E. C. Howe & Co.	Tom Shiss, Lee	"	1906		14 ft.	2 in	all.						75 ft.	"
"		Line Oak	NW	7 1/2 mi					M. E. Harrell	Sam Shiss, Lee	"	1902		95 ft.	2 in	75 ft.						60 ft.	"
"		Line Oak	NW	7 mi					J. O. Harrell	Tucker & Fortner, Line Oak	"	1906		110 ft.	2 in	75 ft.						"	"
"		Line Oak	NW	12 mi					D. W. Clayton	Hindsworthy, Day	"	1906		76 ft.	2 in	60 ft.						50 ft.	"
"		Line Oak	NW	12 mi					M. W. O'Hara	Shiss & Hindsworthy, Day	"	1901		96 ft.	2 in	85 ft.						50 ft.	"
"		Line Oak	NW	9 mi					M. R. Jenkins	Faulkner & Branton, Line Oak	"	1904		126 ft.	2 in	105 ft.						50 ft.	"
"		Line Oak	"	"					M. R. Jenkins	M. B. Shiss, Lee	"	1906		70 ft.	2 in	67 ft.						60 ft.	"
"		Newburn	N 1/2	1 mi					R. S. Vayles	P. H. Warren, Line Oak	"	1906		85 ft.	2 in	70 ft.						"	"
"		"	S 1/2	6 mi					H. J. Lamb	Tucker	"	1914		75 ft.	2 in	60 ft.						"	"
"		Clayland		near					M. H. Lamb	Berry Bird, Line Oak	"	1894		96 ft.	2 in	all						51 ft.	"
"		Line Oak	N.	10 mi					J. W. Floyd	P. H. Warren, Line Oak	"	1907		75 ft.	2 in	65 ft.						50 ft.	"
"		Clayland	S 1/2	3 mi					M. M. Hargraves	"	"	1907		40 ft.	2 in	"						60 ft.	"
"		Howling P.		near					H. J. Cornum	"	"	1904		91 1/2 ft.	2 in	all						20 ft.	"

24 Mineral Character of Water	Distance from nearest	Cuspool	Perm	River	Homes	are protecting clays present	so well probably polluted	so well properly cared	Hells Uses	Cont'd. seen in films	is it corrosive using	Sawannee Co. Suggestions	Remarks
Line									Household				
Line									"				
Line									Drinking purposes	Monsters			
Line									Household				
Line									Genl. household				
Line									" "				
"									" "				
"									" "				
"									Drinking purposes	Monsters			
"									Household, etc.				
"									Household & etc.				
"									" "				
"									" "				
"									Saw mill purposes				
"									Drinking & stock				
Sulphur water													Water in this well about same level as water in Sawannee River.

County		nearest Town or P.O.	Direction from P.O.	Distance from P.O.	STRA	Owner	Driller and Address	Type of well	Date sunk	How deep	Depth of principal supply	Depth of secondary supply	Geologic formation in which well starts	Geologic source of supply	Head	Yield	Remarks
Suwannee		Luraville	near			S.H. Young	Birdsboro, Live Oak.	Driven	1898		106 ft. 2 in	to rock.			-50 ft.	more.	
		"	"	"		C.S. Leflore	P.W. Warren.	"	1905		68 ft. 2 in	"			"	"	
		"	"	"		L.M. Dallantine	McShane + Shippibottom	"	1893		90 ft. 2 in	"			"	"	
		"	"	"		Barnebrook	P.W. Warren, Live Oak	"	1907		90 ft. 2 in	"			"	"	
		"	N	1 mi		Neutral Mining Co.	B.W. Young, Alachua.	Drilled	1907		90 ft. 8 in	47 ft.			-30 ft.		450, with seasons.
		Bayford	near			Vernau Mining Co.	H.A. Gaston, O'Brien	Driven	1905	alt 4 ft.	60 ft. 2 in	45 ft.			-32 ft.		
		Tomerson	E	1 mi		H.A. Gaston	Owner.	"	1903		45 ft. 2 in	90 ft.			-25 ft.		
		O'Brien	E	1 mi		McLane	H.A. Gaston, O'Brien	"	1907		45 ft. 2 in	45 ft.			-87 ft.		
		Tomerson	near			B. Clardy	"	"	1903		78 ft. 2 in	13 ft.			-30 ft.		
		"	"	"		B. Clardy	"	"	1903		85 ft. 2 in	"			-63 ft.		
		"	"	"		Jack Gatch	"	"	1904		80 ft. 2 in	"			-70 ft.		
		Peacecks	near	near		- Davis	"	Driven			82 ft + 2 in	"			-50 ft.		
		Welborn	near	near		T.J. Hackney	C.M. Ray, Lake City.	"	1902		105 ft + 2 in	50 ft.			-40 ft.		See note p. 1
		Live Oak	N/E	4 1/2		City of Live Oak	"	drilled		alt 104 ft.	80 ft. 6 in	360 ft.			44-50 ft.	650 gals. min.	
													Upper Oligocene upper				

S. H. Hall

County	near Town	mineral Charactrs of Water	Distances from nearest Public House, Gasport, Barn	Are they used as well they are for purposes, each	so will probably be used	Uses	Used in boilers	Does it corrode casing	Suggestions	Remarks.
Suwannee	Lava	Lime				Household, drinking				
"	"	"				General				
"	"	Sulphur water				Household & stock				
"	"	Lime				Minning purposes				River affects level of water in well.
"	"	Lime				Minning purposes				
"	Brant	Lime				General purposes				
"	Land	"				"				
"	Land	Lime				"				
"	Land	Lime				"				
"	Land	Lime				Household & stock				
"	"	"				"				
"	"	"				"				
"	Pear	"	near	near	No	General				
"	Well	"			Yes					
"	Lire	"			Yes	City supply				

Incrusts.
"

Depth to rock about 55 ft.

1. This well and others in this locality are reported to be affected by the rise and fall of the water in Newland Spring near by. Water in the wells stands, apparently on a level with water in the Spring.

2. Newland Spring rises as a boil through a sink 43 feet deep. It flows as a stream through a solution channel, a distance of about one-tenth mile, when it disappears through a second sink. The Spring is three miles from the Suwannee River. The water level in the spring is slightly above low water level in the River. A rise in the River affects the water in the Spring. At times of extreme high water, the river rises above the static head of the water in the Spring. The direction of flow of the Spring is then reversed, and the water in the Spring and in the surrounding wells has the color of the River water. Depth of channel at static head of water 8-10 feet; north sink 30 feet; south sink 43 feet. (See note p—

Suwannee Co.

General.

1. Deep wells, medium deep wells, cisterns, some few shallow wells.
2. Deep wells and medium deep wells; for stone same.
3. From about 50 ft. to ft.
4. Most common depth ranges around 100 ft.
5. Mostly hard water, few instances Surinam water.
6. Variable according to surface elevation from 25 to 80 ft. from surface.
7. Unexhaustible by pumping.
8. Variable - often at surface.
9. Deep with the few shallow wells; limestone with the deeper ones.
- 10.
- 11.
12. Mostly sand, frequently lime and flint rock on surface. Very limy clay, taking the country as a whole) exposed.
- 13.
14. Very porous.
15. See page.
16. Wells shallow and deep, mostly 2 in in diam. operated by pumps.
17. Water from the deeper wells hard, and in shallow wells variable, frequently hard.

The following wells used for disposal of sewage occur at Live Oak, Florida:—

H. M. Wood	4 in well	8 1/2 ft deep	Cor. Hamilton & 3 rd St (North of P.O.)
Dr. W. H. White	4 in well	7 1/2 ft deep	1 Block north of P.O.
C. H. Brown	4 in. "	102 ft "	1 st Blk. west of A.C.L. - North of P.O.
B. W. Helvenston	4 in. well	65 ft "	Ohio Avenue South of P.O.
North Stevens & Co.	4 in "	104 ft "	Store W. of P.O. next to R.R.
Thos. Dowling	4 in. "	85 ft "	E. of P.O.
C. A. Groover	4 in "	60 ft "	South of P.O. 1/8 mi.
O. O. Williams	4 in. "	65 ft "	N.E. of P.O. 1/8 mi.
W. J. Hillman	4 in "	95 ft "	S.W. of P.O. 1/4 mi.
C. J. McGehee	4 in "	103 ft "	Conner St. 4 Blks. W. of P.O.
M. L. Burnett	4 in "	78 ft "	West of P.O. 1/4 mi.
T. S. Baisden	2 in. "	—	West of P.O. 1/4 mi.
H. F. Dexter	2 in "	—	2 Blks north of P.O.
Ethel Hotel	4 in "	85 ft	near P.O.
Ethel Hotel	3 in. "	—	near P.O.

{ See Table for
Date Completed }

18. Is a usual rule sanitary conditions are good.

19.

20. No evidence on this point, but mostly the majority report no increase or decrease of supply with seasons.

21. General use,

22 & 23. No quarries.

Well #1.

Burrane Co.

Melborn.

35. T. J. Kaciny.

36. Melborn, Burrane Co.

37. Near.

38. C. M. Ray, Lake City.

39. Level.

40. 2 in

41. 1902

42. Same.

43.

44. Total depth 50 ft.

45. 2 in. water.

46. All.

47. Water stands at 3 ft. from surface.

48. Hand force pump.

49. General household purposes.

Notes (continued)

The following wells in this Oak are used to draw water
 Well on Ohio Ave East side 3rd Bk S. of P.O. 4 in. 1901
 Well in alley 1 Bk North + 5 Bks East of P.O. (75 ft) 1906
 Well on Houston St. at rear of Stores. 4 in. 55-57 deep 1906

Pine Mount.

Well #1.

35. Green, Pennington Co.
 36. Pine Mount, Suwannee Co.
 37. near.
 38. J. M. Harnage, Jacksonville, Fla.
 39. 40. 2 in 41. 42. 2 in
 44. Total depth 108 ft.
 58. Turpentine still purposes.

Well #2.

35. F. M. Greene.
 36. Pine Mount, Suwannee Co.
 37. Near.
 38. Henry Blanton, Columbia City.
 40. 2 in tubular. 41. 1906. 42. 2 in
 43. Limestone about 30 ft. from surface.
 44. Total depth 87 ft.
 45. Line.
 47. Water stands 73 ft. from surface.
 48. Steam pump.
 58. Milling purposes.

Well #3.

35. G. D. Blanton. 36. Pine Mount, Suwannee
 38. Henry Blanton, Columbia City
 39. Level. 40. 2 in 41. 1904. 42. 2 in
 43. Sand 3 ft. Sand & clay 14 ft. Rock to bottom.
 44. Total depth 95 ft. 45. Limestone water
 47. Water stands 67 ft. from surface.
 48. Force pump. 58. General household.

Well #4.

Pine Mount. 37

35. James Smith.
 36. Pine Mount, Suwannee Co.
 38. Berry Bird, Live Oak.
 40. 2 in 41. 1902. 42. 2 in top & bottom.
 44. Total depth 104 ft.
 45. Line water. 46. Cased 84 ft.
 47. Water stands about 40 ft. from surface.
 48. Steam pump. 58. Ginning purposes.

Well #5.

35. R. L. Robinson
 36. Pine Mount, Suwannee Co.
 38. P. M. McNewman, Bowling Park.
 39. On slope. 40. 2 in 41. 1904. 42. 2 in
 43. Sand 4 ft. Clay 50 ft. Soft lime rock.
 44. Total depth 106 ft.
 45. Line water.
 47. Water stands about 80 ft. from surface.
 48. Force pump.
 58. General household purposes.

Well #5.

Pine Mount. ³⁹

35. E. H. Luff.
 36. Pine Mount, Suwannee Co.
 37. $1\frac{1}{4}$ mi. SE post-office.
 38. P. M. McNewmans, Bowling Park.
 39. Level. 40. 1900.
 41. 2 in 42. 2 in
 44. Total depth 105 ft.
 45. Fine water.
 46. Cased 75 ft.
 47. Water stands at 60 ft. from surface.
 48. Force pump.
 58. General household purposes.

Well #6.

35. J. E. Roberts.
 36. Pine Mount, Suwannee Co.
 37. 4 mi. SE.
 38. P. M. McNewmans, Luraville.
 39. Level. 40. 2 in 41. 1905. 42. 2 in
 44. Total depth 236 ft.
 45. A muddy water, so reported.
 46. All. 47. Water stood 60 ft. from surface
 48. Force pump.
 63. Well abandoned, reported that water was not good but always muddy.

Well #1.

McAlpin.

41

35. A. C. L. R. R. pump.

40. 4 in drilled.

44. Total depth 140 ft.

46. 8 in casing -

47. Stands about 50 ft. from surface.

J. H. Benby, McAlpin, Fla. has charge of the pump and for further information write him.

Well #2.

35. Mangum & Gatten.

36. McAlpin, Suwannee Co.

37. Near.

38. Hole & liner, McRiley.

39. Level. 40. 2 in driven. 41. 1906. 42. -

44. Water stands about 60 ft. from surface.

44. Total depth 118 ft.

45. Line. 46. Cased 100 ft.

48. Steam pump. 58. Saw mill purposes.

Well #3.

35. G. H. Green.

36. McAlpin, Suwannee.

37. 1 mi. E. po. 38. Man Tedder, Melbourne.

39. Level. 40. 2 in 41. 1906. 42. -

43. Lime rock near surface.

44. Total depth 85 ft. 46.

47. Stands about 79 ft. from surface.

48. Force pump.

58. General household purposes.

40

Well #4.

m = Alpin.

73

35. J. E. Greene.

36. m = Alpin, Suwannee.

37. 2 1/4 mi. E. p.o.

38. Man Tedder, Melborn.

39. Level. 40. 2 in 41. 1906. 42. same.

44. Total depth 85 ft.

45. Line water.

47. Water stands about 79 ft. from surface.

48. Force pump.

58. General household use.

Well #5.

35. H. H. Moseley.

36. Melborn, R. F. D. #2. Suwannee.

37. 6 1/2 mi. S/W Melborn.

38. m = Ilwaco, Live Oak?

39. Hill 40. 2 in 41. 1900. 42. -

44. Total depth 110 ft.

45. Line

46. Cased to rock.

47.

48. Force pump.

58. Household & stock.

Well #1.

Falmouth. 45

35. J. W. Milliner & Co.
36. Falmouth, Sumner.
37. $\frac{1}{2}$ mi. S. p.o.
38. H. B. Hicks, L.L., Fla.
39. Light hill. 40. 3 in 41. 1907. 42. same
44. Total depth 84 ft.

43. Sand, clay, limestone.
45. Fine water.
46. Cased 60 ft.
47. Water stands about 60 ft. from surface
48. S. turn pump.
53. Turpentine still purposes.

Another well on same place with the following changes:-

40. 2 in 44. 96 ft.

Well #3.

35. H. A. Nobles, 36. Live Oak, R.F.D. #1, Sumner Co.
37. $7\frac{1}{2}$ mi. N/W p.o.
38. Tucker, Live Oak.
39. S. slope, 40. 2 in 41. 1907. 42. -
43. Sand 4 ft. Clay 25 ft. Live rock.
44. Water stands about 63 ft. surface.
48. Force pump.
58. General household & stock.

Falmouth.

46

Well #4.

35. E. L. Hodge.
 36. Falmouth, Suwannee Co.
 37. $3\frac{1}{2}$ mi. $\frac{3}{4}$ p.o.
 38. Allison Wheeler, Lee, Fla.
 39. Well. 40. 2ⁱⁿ 41. 1904.
 42. 44. Total depth 95 $\frac{1}{2}$ ft.
 45. Line
 46. cased 63 ft.
 47. Water stands at 73 ft. from surface.
 48. Force pump.
 49. General purposes.

Well #5.

35. E. C. Horne & Co.
 36. Falmouth, Suwannee Co.
 37. 1905.
 38. Tom Hicks, Lee, Fla.
 39. Well. 40. 2ⁱⁿ 41. 1906.
 42. Mostly line rock.
 43. Total depth 94 ft. 45. Line.
 46. All.
 47. Water stands at 15 ft. from surface.
 48. Common pump worked by steam.
 49. Draining purposes.
 Incrusts boilers.

Well #1.

T. F. D. route 49
#1

35. H. E. Harrell.
 36. Linc Oak, Suwannee Co.
 37. $1\frac{1}{2}$ mi. $\frac{1}{4}$ mi Linc Oak.
 38. Sam Shipe, Lee, Fla.
 39. Slight hill. 40. 2 in 41. 1906.
 43. Clay, Linc Oak.
 44. Total depth 95 ft. 45. Linc water
 46. Cased about 75 ft.
 47. Water stands about 60 ft. surface.
 48. Force pump.
 58. General household & stock.

Well #2.

35. J. O. Harrell. #1
 36. Linc Oak. Suwannee Co.
 37. 1 mi. $\frac{1}{4}$ mi Linc Oak.
 38. Tucker & Fortner, Linc Oak.
 39. Still. 40. 2 in 41. 1906.
 44. Total depth 110 ft.
 45. Linc water.
 46. Cased 75 feet.
 47. -
 48. Force pump.
 58. Household purpose

2

Well #3

R. F. D. routes.

35. D. W. Clayton.

#1

57

36. Live Oak, Suwannee.

37. 12 mi. N/W. Live Oak.

38. Hindyweeds, Day, Fla.

39. Level. 40. 2 in 41. 1906. 42.

43. Sand clay sand rock, soft lime rock.

44. Total depth 76 ft. 45. Slight lime.

46. Cased 6 ft.

47. Water stands about 55 ft.

48. Force pump.

58. Household purposes.

Well #4.

#1

35. H. W. O'Hara.

36. Live Oak, Suwannee.

37. 12 mi. N/W. Live Oak.

38. Hicks & Hindyweeds, Day, Fla.

39. Slope. 40. 2 in 41. 1901.

43. Clay, Flint rock, lime rock.

44. Total depth 96 ft.

45. Lime water.

46. Cased about 85 ft.

47. Water stands about 55 ft.

48. Force pump.

58. General household & stock.

Well #5.

Live Oak, R. F. D. #1, 53

35. W. R. Jenkins.
 36. Live Oak, Suwannee Co.
 37. 9 mi. N/W. Live Oak.
 38. Fallner & Branton, Live Oak.
 39. Lat. 40. 2 in 41. 1904.
 43. Sand clay rock.
 44. Total depth 126 ft.
 45. Live water.
 46. Cased 105 ft.
 47. Water stands about 50 ft. from surface.
 48. Force pump.
 58. General household & stock.
 Another well owned by same man.
 38. W. B. Hicks, Lee, Fla.
 39. In bottom.
 40. 2 in 41. 1906.
 43.
 44. Total depth 70 ft.
 45. Live water
 46. All or about 67 ft.
 47. Water stands about 60 ft. from surface.
 48. Steam pump.
 58. Saw mill purposes, & drinking etc.
 Reported to incrust boilers.

Well #1.

Newburn.

55

- 35. R. S. Voyles,
- 36. Newburn, Swannell.
- 37. 1 mi. N/E post-office.
- 38. P. W. Warren, Live Oak,
- 39. Level. 40. 2 in 41. 1906.
- 43. Sand 6 ft. clay 40 ft. Limestone.
- 44. Total depth 86 ft.
- 45. Lime water.
- 46. Cased 70 ft.
- 47.
- 48. Force pump.
- 58. General household.

- 35. H. J. Lamb.
- 36. Newburn
- 37. 6 mi S/W Live Oak.
- 38. Tinsler
- 39. Hill 40. 2 in 41. 1904.
- 44. Total depth 75 ft.
- 45. Lime water
- 46. Cased 65 ft.
- 48. Force pump.
- 58. Household.

35. W. H. Lamb
 36. Live Oak or Clayland p.o. Suwannee Co.
 37. 10 1/2 mi. Spr Live Oak.
 38. Berry Bird, Live Oak.
 39. Level. 40. 2 mi 41. 1894.
 44. Total depth 96 ft.
 45. Lime water
 47. Stands about 51 ft. from surface.
 48. Force pump.
 58. Household and stock.
 35. J. N. Floyd.
 36. Live Oak, Suwannee Co.
 37. 10 mi. West Live Oak.
 38. P. N. Warren, Live Oak,
 39. Level. 40. 2 mi 41. 1907
 44. Total depth 75 ft. 45. Lime water
 46. Cased 65 ft.
 47. Water stands about 55 ft. from surface.

35. H. M. Hargraves.
 36. Clayland. Suwannee Co.
 37. 3 mi. S.W. post-office.
 38. P. W. Warren, Live Oak.
 39. Level. 40. 2 in 41. 1907.
 43. Sand 30 ft. Clay 59 ft. Lime rock 5 ft. Flint rock —
 44. Depth 95 ft. (not completed)
 45. Lime water.
 46. Cased into rock
 47. Stands about 60 ft. from surface.
 48. Steam pump.
 58. milling purposes.

Dowling Park.

35. H. J. Cannon.
 36. Dowling Park, Suwannee Co.
 37. Near.
 38. P. W. Warren, Live Oak.
 39. Level. 40. 2 in 41. 1906.
 43. Sand 40 ft. Lime stone 9 ft. Sulphur horizon.
 44. Total depth 91 1/2 ft.
 45. Sulphur water
 46. Entire
 47. water stands about 25 ft. from surface.
 58. For drinking and watering live stock.

61

61

35. Dowling Lumber Co.
 36. Dowling Park, Suwannee Co.
 37. Near, across river from p.o.
 38.
 39. Level, on river bank.
 40. 4 ⁱⁿ 41. 42.
 43.
 44.
 45. Sulphur water
 46.
 47.
 48.
 58.

Luraville, Fla.

35. S. H. Young.
 36. Luraville, Suwannee Co.
 37. 2 mi. N. post-office.
 38. Bird & Branner, Lime Oak.
 39. slight slope. 40. 2 ⁱⁿ 41. 1897.
 43.
 44. Total depth 106 ft.
 45. Lime water
 46.
 47. Water stands about 50 ft. from surface.
 48. Wind mill.
 58. Household & stock.

35. Fernan Lining Co.
36. Branford, Suwannee.
37. Near.
38. W. A. Gaston, ^(either) Emerson or O'Brien.
39. Level. 40. 3 in 41. 1905. 42. 3 in
43. Sand 20 ft. Limestone to bottom.
44. Total depth 60 ft.
45. Lime water.
46. Cased 45 ft.
47. Water stands 15 ft. from surface.
48. Steam pump.
58. Lining purposes.

35. W. A. Gaston.
36. Emerson. Suwannee Co.
37. 1 mi. East of Emerson.
38. Owner.
39. Still. 40. 2 in 41. 1903.
43. Sand 18 ft. clay, limestone.
44. Total depth 95 ft.
45. Lime water.
46. Cased 90 ft.
47. Water stands 87 ft. from surface.
48. Force pump.
58. General household + stock.

35. C. J. Lefore.
36. Luraville, Suwannee Co.
37. Near.
38. P. H. Warren, Live Oak.
39. Level. 40. 2 in 41. 1905.
- 43.
44. Total depth 68 ft.
45. Lime water.
46. Cased to rock.
- 47.
48. Force pump.
58. Drilling purposes at store & watering stock.

35. L. M. Ballantine.
36. Luraville, Suwannee Co.
37. Near.
38. McIlwaine & Higginbottom. ?
39. Level. 40. 2 in 41. 1893.
- 43.
44. Total depth 90 ft.
45. Sulphur water.
- 46.
- 47.
48. Force pump.
58. General household.

35. Mc Lane.
 36. O'Brien, Suwannee Co.
 37. 1 mi. E. post-office.
 38. H. A. Gaston, Emerson.
 39. Level. 40. 2 in 41. 1907.
 43. Clay 20 ft. - Flint & lime rock.
 44. Total depth 48 ft.
 45. Lime.
 47. Water stands about 30 ft. from surface.
 48. General.
 58. Force pump.

35. Blount Clarady.
 36. Emerson, Suwannee Co.
 37. near.
 38. H. A. Gaston, Emerson.
 39. Hill. 40. 2 in 41. 1903.
 43. Clay 20 ft. Limestone -
 44. Total depth 78 ft.
 45. Lime
 47. Water stands 63 ft. from surface.

35. Paul Mc Intosh.
 36. Luraville, Suwannee Co.
 37. near.
 38. P. H. Warren, Live Oak.
 39. Level. 40. 2 in 41. 1907.
 43. Sand 6 ft. clay. (Shell Limestone 40 ft.)
 44. Total depth 90 ft. (not completed)
 45. Lime water.
 46. Cased into rock.
 47. Stands about 30 ft. from surface.
 48. Force pump.
 58. General use.

River reported to affect quality of water - rising and falling according to seasons. Water becomes discolored when river is high.

35. Neutral Mining Co.
 36. Luraville, Suwannee Co.
 37. 1 mi. N. post-office.
 38. G. H. Young, Alachua.
 39. Level. 40. Two 8 in 41. 1907.
 43.
 44. Total depths 85 & 95 ft.
 45. Lime.
 46. Cased 47 ft. 47. Water stands 32 ft. from surface.
 48. Steam pump.
 58. Phosphate mining purposes.
 Inoculate boilers.

35. Dan Clardy. 66
 36. Emerson, Lawrence Co.
 37. Near.
 38. H. A. Gaston, Emerson.
 39. Still. 40. 2nd 41. 1903.
 43. Clay well.
 44. Total depth 85 ft.
 45. Lime water.
 47. Water stands about 75 ft. from surface.
 48. Force pump.
 58. Household + stock.

35. Jack Fitch.
 36. Emerson. Lawrence Co.
 37. Near.
 38. H. A. Gaston, Emerson.
 39. Still. 40. 2nd 41. 1904.
 43. Clay about 75 ft. deep.
 44. Total depth 80 ft.
 45. Lime.
 47. Water stands about 50 ft. from surface.

Spring. Law Co.

67

64.
 65. 3 1/2 mi. W. Bronson.
 66. Blue Springs.
 67. Clear, with bluish tinge to water.
 68.
 69.
 72. No mineral deposits observed.
 73. Volume of flow probably 25,000 to 50,000 gal. min.
 74.
 75.
 76. Located in swamp, near bay head.
 77. Boiling spring.
 78. Through sand.
 79. Forms small stream.
 86. No improvements at Spring.

Levy County. meredith area.

well #1

35. Philipps + Mr Eakin.
 36. meredith, Levy
 37. near depot, meredith,
 38. Owner. 39. Level.
 40. 4th drilled well. 41. 1907. 42:
 43. Rock at 50 ft.
 44. Total depth 110 ft. Pit dug 30 ft, well drilled
 80 ft.
 45. Limestone. 46 Cased about 50 ft.
 47. Water stands 47 ft. surface.
 48. Steam pump. - 50. Not exhausted by pumping
 53. Limestone water. 58. Saw mill purposes.
 60. Reported to corrode boilers badly.

#2.

35. Rogers. 36.
 37. 8 mi. N. Bronson. 38. Natural well.
 39. Level. 40. About 3 ft. across at top.
 41. Formed 1907.
 43. Limestone rock. 44. Total depth 17 1/2 ft.
 47. Water stands within 2 ft. surface
 58. Not in use. 61. Several other small sinks
 in the immediate vicinity formed in 1907, these
 latter are, however, in clay deposits + are not opened.

Well #1.

Judson. 71

- 35. J. H. Johnson,
- 36. $\frac{1}{2}$ mi. E. post. office at Judson, Fla. Levy Co.
- 38. Brown, Archer, Fla.
- 39. Level. 40. 2 in 41. 1891.
- 43. Sand 3 ft. clay 5 ft. yellow sand, phosphate rock.
Brown gravel, limestone.
- 44. Total depth 97 feet.
- 45. Lime water.
- 46. To rock.
- 47.
- 48. Pitcher pump.
- 58. Household.

Well #2.

- 35. R. S. Tucker.
- 36. Judson, Levy Co.
- 37. Year
- 38.
- 39. Level. 40. 2 in 41. -
- 44. Total depth 60 ft.
- 47. It stands about 30 ft. from surface.
- 48. Force pump.
- 58. Drinking & watering stock.

Well #3.

35. J. N. Horne -
 36. Judson, Levy Co. 37. 3 mi. $\frac{3}{4}$ E post-office
 38. George Livingston, Newberry, Fla.
 39. Level. 40. 2 in 41. 1904?
 44. Total depth 47 ft.
 45. Lime -
 46. To rock.
 47. Stands about 20 ft. from surface.
 48. Force pump -
 58. Household + stock

Double Sink.

35. J D Storeman.
 36. Double Sink. Levy Co.
 37. Near.
 40. Open dug well.
 43. Sand 6 ft. Clay to bottom.

Another well was dug about 30 ft. from this one in which limestone was penetrated instead of clay. Same thickness of sand on surface.

44. Depth about 40-42 ft.
 47. Water stands about 35 or 38 ft. from surface.

A natural well owned by Mr. Storeman, same depth to water level, never known to go dry. Water once used for saw mill purposes.

35. School house at Double Sink.
 37. near.
 38. Hancock, Archer.
 39. Level. 40. 2 in 41. 1897.
 43. Sand about 6 ft. Limestone —
 44. Total depth 52 ft.
 45. Lime water
 47. Stands about 38 ft. from surface.
 58. Drinking purposes —

Lewyville

35. Graham Carter.
 36. Lewyville, Levy Co.
 37. near.
 38. Owner.
 39. Level. 40. 2 in 41. 1895.
 43. Sand 15 ft. Clay + sand 13 ft. rock.
 44. Total depth 28 ft.
 45. — —
 47. Water stands (now) about 11 ft. from surface.
 Sample of water sent to State chemist
 10-25-07 for analysis.

[illegible]

~~2~~
entry

Town

~~Topog~~ location of
well or spr.

Relation to Time

Dir. of mnt of gid waters

Distance from nearest
House Camped Prairie, Brown

Public
To supply satisfaction

Supplies (Contd)

79 Supplies (Cont)
Changes Contemplated

Suggestions

Lary Co.
Refrigerator supplementary notes

5

County	Town	Principal source of water	Other sources	Depth shallow wells	Depth deep wells	Avg.	Surf. material	Thickness	Water supply	General water formation	Resources.	Water supply	Prim. water beds.	Water supply	Prob. depths	Quality of water	Inc. or dec.	Notes.
Lamy Co.	Otter Creek	Shallow wells	Ponds & creeks	10 ft.	55 ft.		Sands	Variable	Variable	Clays.			(Sands) Limestone	Abundant	50 to 90 ft.	(Soft) Hard	With seasons.	8 ft. from the
" "	Bedon Key	Disterns and shallow wells	-	5 to 30 ft.			Sand	Variable								Hard or Soft.	Varies.	1 ft. above sea
" "	Williston	Wells.			75 ft.		"	"	Little	Limestone	Abundant		Limestone	Abundant	50 to 75 ft.	Hard	With seasons	20 ft. from
" "	Bronson	Wells.		10 to 30 ft.	none		"	"	Fair	Clay.	"							

County	Town	Topographic situation of town	Number and kind of privies, cesspools etc.	Disposal of sewage	General water Sanitary cond. of wells	Prevalence of malarial fever etc.	Provision (Cont'd) Suggested improvements	Large No.	Reference supplementary notes.
Lemay Co.	Otter Creek	Flat & low.	Several	no system	Doubtful	Malania prevalent			water level about 8 ft. from the surface level = 21 ft. above sea.
" "	Bedar Key	Islands + lilly	"	" "	—	—			water level about 20 ft. from the surface
" "	Williston	Level	Several	no system.	Good	not prevalent			
" "	Bronson	Rolling	"	" "	—	" "			

County	Nearest Town or P.O.	Direction from P.O.	Distance	S	T	R	G	Owner	Name of Spring	Character of Water	Discharge	Mineral Deposits	Temperature	Variations of flow with seasons	Geologic formation from which water comes	Nature of passage	Level of emergence	Nature of stream
Lenny Co.	Otter Creek	East	10 mi					M. R. Colter	Makiva Spring	Limestone water, no sulphur Hard	Roughly estimated at 35,000 gal. min.	None observed	-	Not determined	Not determined Siliceous lime.	Solution cavities	Boiling spring.	Restricted solution channel for 6 miles.
"	"	Brownson	West 3 1/2 mi					M. R. Colter Sammerville Fla.	Blue Spring	Limestone water, no sulphur	Probably does not exceed 25,000 gal. min.	None	-	Not determined	Not determined Siliceous limestone?	Escapes through sand	Boiling spring	Empties into branch
"	"	Otter Creek	NW 5 mi					Cummer Lumber Co.	Sulphur Spring	Sulphur	Says 5000 gal. min.	None.	-	Reported to vary	-	-	Boil	Flows into branch and then to Otter Creek
"	"	Cedar Key	NW 5 mi					John Leuterlow	Sulphur Spring	Sulphur	Small.	-	-	Not det.	-	-	-	-
"	"	Gulf Hammock	NW 1 mi					Colson Bros	Sulphur Spring	Sulphur	Est. 1000 gal. per min.	-	-	-	-	Through mud and sand	Boil	Enters Makiva River
"	"	Lebanon	NW 2 mi					Tom King	Sulphur	Soft water Partly salt	Est. 2000 gal. min.	none	-	-	-	Through sand	Boil	Small stream

Topographic surroundings.	Distance from nearest			Possibility of pollution	Is Spring muddy after rains	Spring uses.	Name of water	Improvements at Spring	Amt. Shipped	Lay a Price	Remarks -
	House	camp	bar								
Low flat woods	1 mi	1 mi	1 mi	1 mi	none except surface water in rainy seasons	mixed with surface water	Resort.	none	Small cottage	none	See supplementary note page #
Flat, low hammock in bay head. swampy	Remote			Overflowed by surface water.	" "	Not used	none	none	none	-	Sample taken, See supplementary note page #
Low swampy	1 mi	1 mi	1 mi	1 mi	Overflowed by surface water	-	not used	none	none	-	Sample taken.
Swampy, near coast	1/2 mi	1/2 mi	1/2 mi	1/2 mi	surface water	not det.	" "	none	none	-	
Swampy hammock.	1 mi	1 mi	1 mi	1 mi	-	-	" "	" "	" "	-	
Swampy bay head.	1/2 mi	1/2 mi	1/2 mi	1/2 mi	-	-	drinking	" "	" "	-	

County	Town or PO	Dir	Dist	Owner	Driller and address	Well type	Date	Water	Depth	Diam.	Length of casing	Depth of principal supply	Depth of secondary supply	Geologic formation in which well stands	Geologic source of supply	Head	Yield	Iron. bar	Remarks
Levy Co.	Otter Creek	East	8 mi	Fisher & Shands	Lee Hancock, Archer.	Drum	1905	about sea		30 ft.	2 in	79 ft.	30 ft.	-	not determined	-75 ft	8000	not determined	by pumping
Levy	Williston	South	1/4 mi	Williston Mfg Co.	John Acre, Archer	Drilled	1907	70 ft.		60 ft	4 in	22 ft	60 ft	-	Pen. Limestone	Pen. Limestone	-20 ft	not det.	note p-
Levy Co.	Otter Creek	near	near	Otter Creek Lumber Co.	Gainesville	Bored	1902	about sea		15 ft.	4 in		85 ft.	-					
"	"	Cedar Key	South	near	Emm. Reed Dr Cedar Key Town Co	Drilled	1884	about 8 ft.		15 ft.	2 in	8 ft.	8 ft.	-			-8		none reported.
"	"	"	near	near	Saul Dauchman	Drilled	1897	about 6 ft.		8 ft.	2 in			-					
"	"	Judson	East	1/2 mi	J. H. Johnson	Brown, Archer	Drilled	1891		97 ft.	2 in	To rock	97 ft.	-			-34 ft		
"	"	Judson	near		R. S. Tucker	"	?			60 ft	2 in		60 ft.	-			-20 ft.		
"	"	Judson	S/E	3 mi	J. N. Horne	George Livingston, Newberry	"	1904?		47 ft.	2 in	To rock		-			-38 ft.		
"	"	Double Sink	near		J. B. Stockman	Drugwell				40 ft.			40 ft	-					
"	"	"	near		"	"Natural"				38 ft.			38 ft	-			-34 ft.		
"	"	"	near		Public School House	Lee Hancock, Archer	Drilled			52 ft.	2 in		28 ft.	-			-38 ft		
"	"	Lexyville	near		Graham Carter	Owner	Drilled	1895		28 ft	2 in	28		-			-11 ft.		
"	"	Otter Creek	near		Otter Creek Lbr. Co.	"	Gainesville	Drilled	1902	75 ft.	4 in		85 ft.	-	Surface water.		-8 ft.		
"	"	Elkberg	N	5 mi	T. W. Shands & Co.	Lee Hancock, Archer.	Drilled	1902		63 ft.	2 in		63 ft.	-			-10 ft		
"	"	Cedar Key	N/E	4 1/2 mi	A. M. Donett	Owner	"	1904		15.	2 in	24 ft 3 in	35 ft.	-			-15 ft.		
"	"	Otter Creek	-	near	J. W. Turner	"	1902	about 1 ft.		30 ft.	2 in	30 ft.		-			-28 ft		
"	"	Lebanon	W	1 1/2 mi	Tom King	Fryersmouth, E. L. Ocala	"	1905		30 ft.	2 in	40 ft.		-	Oligocene.	Pen. sandstone	-9 ft.		

Mineral character of water	Distance from nearest				Are protective clay beds present	Is well properly cased	Is well probably polluted	Wells for use	Does it corrode casing	Sugg. for use	Levy Co.	Remarks.
	House	private	cor. pool	barn								
Line water.	near	near	—	—		Yes.	no.	Turpentine still				Well is lowered slightly by pumping.
Line water	near	near	—	near	No.	yes		Ice plant	corrodes within			See analysis p. 4 note p. 5
See Analysis Sup. notes.	near					yes.	no.	Saw mill purposes	corrodes within			See supplementary notes page 11
Brackish water								Ice manufacture				Well abandoned.
Hard water								Household & garden				Sample taken.
Reported to have iron & lime					yes.		not probable	Household				
Line	near							Drinking & stock				
Hard water								Household & stock				
Line	near		near	no				Drinking & stock				
Line	near							Stock.				
Line					no.			Drinking.				Sample taken.
See sample analysis.												
See analysis.												
Line	near				no			Stillage purposes				
Soft water	near							Irrigation & stock				
Line water	near	near	near	no		yes	no	Stock use				
Line	5 mi				no	yes	no	Saw mill				Sand 20 ft. limestone below.

Topography - Seny Co.

Archer to Brownson. - From Archer (Albion) to within one or two miles of Brownson the topography is rolling, rounded hills occur. There is some phosphate and the area has in general the appearance of the phosphate producing district. The rock is as a rule at or near the surface. The surface rock is apparently the Pennsylvanian limestone. Sinopholis occur in this area and there are occasional "prairies". A large prairie about one mile north of Albion is known locally as "Farrell hole" prairie. From this prairie to the south east is a succession of prairies apparently marking a general valley.

The average above sea level of this area ~~is~~ is 70 to 80 ft. The "prairies" mentioned are probably about 40 to 50 ft. above sea.

The limestone water in this area ~~may be~~ stands 40 to 45 ft. with from the surface as a general average. Greater variation occurs depending upon seasons and local surface elevation.

Bronson to Cedar Keys:-

From the vicinity of Bronson to Cedar Keys the surface is nearly level and approaches the flat woods type. The underlying rock is rarely more than 5 to 8 ft. being covered to that depth by sand. Occasionally sufficient clay occurs locally to result in the formation of cypress ponds. Generally speaking there is however comparatively little clay in this area.

Surface water is often obtained in this area but is usually insufficient and variable. The permanent or high water level is near the surface. The water standing usually within 5 to 15 ft of the surface. The surface level slopes gradually from an elevation of 68 ft. at Bronson to sea level at Cedar Keys. Shallow sinks occur.

9. Bronson's house 5 mi. E. of Rock Hammock to Sunnyside:-

This area to within about 2 miles of Sunnyside is similar to the Bronson to Cedar Keys area. The rock (Pensacola limestone) is covered for the most part by several feet of sand. Some clay occurs, and there are occasional cypress ponds. The limestone water level is within 5 to 15 ft of the surface depending on elevation and seasons.

across Gulf Hammock via Gulf Hammock P.O.
This hammock area is densely wooded with hard wood trees. Rock occurs as a very near the surface. There is but little sand. The surface is in general slightly rolling. The high water level is within a few feet of the surface.

Judson to Double Creek:-

This area is nearly flat. Surface covering of sand. clays practically absent, ^{few} ponds or streams. Sinks are numerous. Water level is 30 to 35 ft. from the surface.

Leryville to Rock:-

This area is flat. numerous cypress ponds occur. Rock near the surface. water level 2 to 11 ft. shallow sinks occur.

103

103

Notes (1 gr. 17.1 parts per million) 103

Analysis of water from well of the Williston Mfg. Co. Made by Insular Mfg. Co. 818 Euclid Ave. Cleveland, Ohio Sept. 1907. J. L. Crobaugh, Chemist. Rpt no. 1319.

Constituents	Grains per U.S. Gallon	Equal parts per million
Carbonate of Lime	7.2	123.12 123.43
Sulphate of Lime	..	
Magnesia	3.0	51.30 51.43
Sulphuric Acid	8.9	152.19 152.58
Chlorine	2.1	35.91 36.00
Oxide of iron & Alumina	Some	Some
Silica	(not given)	
Total Solids	31.2	533.52 534.88
CO ₂ gas not estimated separately but included in Total Solids.		

This company makes and recommends as a softener for this water Standard Water Purifier cost 1 Bbl. (700 lb.) \$70.00.

104 Solution holes in the limestone occur. These when of sufficient depth to contain water are known as natural wells. Such natural wells are frequent at Rocky in Levy county. A surface deposit of sand often obscures these wells. Residents report that the method of obtaining natural wells is to remove the sand until a natural well is found.

The following serves as an illustration of this type of well. Owner, S. E. Worthington; location, Rocky, Levy Co. Fla.; near P.O.; surroundings level; sand covering 6 ft. cavity in rock 12 ft.; water stands about 10 ft. from the surface; quality, lime water.

Similar wells occur at Gulf Hammock with the exception of a very thin surface covering of sand. Example well of Hattie Rowden 1/2 mi. south of Gulf Hammock P.O. and Clayton near P.O.

Notes.

105 Well of Williston Mfg. Co. — This well has a pit dug to a depth of 15 feet. The pump is lowered to the bottom of the pit. The water level is reported to vary with the seasons but is in general about 20 ft from the surface. Total depth of well, pit + boring, 60 ft. Boring ends in a 2 ft cavity in the limestone. Surface level of well about that at depot.

Addresses Long County

Dr. W. S. Barlow, Cedar Keys. Symp. Crystal.

J. H. Willis, Williston. Long County

Times Democrat Brownson

Advocate Williston.

E. F. Horn, Jackson.

analysis st. chem. 0.5. solids 1 & 7.0

Odphenus Levy County, (Cont.)

