

W 16/98

ALACHUA #1

SEC 9, T11S, R19E

- | | |
|--------|---|
| 0-7.5 | SAND , top soil , fine grain |
| 7.5-16 | CLAY , gray |
| 16-18 | CLAY , yellow, sandy |
| 18-19 | clay , black |
| 19-20 | clay , red |
| 20-38 | clay , gray sandy |
| 38-43 | SAND , medium grain, clay white
(40' rock streak, white, shelly) |
| 43-45 | limerock , white |
| 45-50 | chest, hard , orange clay |



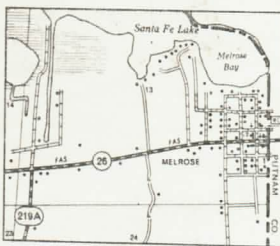
INSET "B"
T 9 S - R 20 E



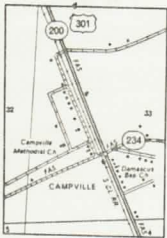
INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



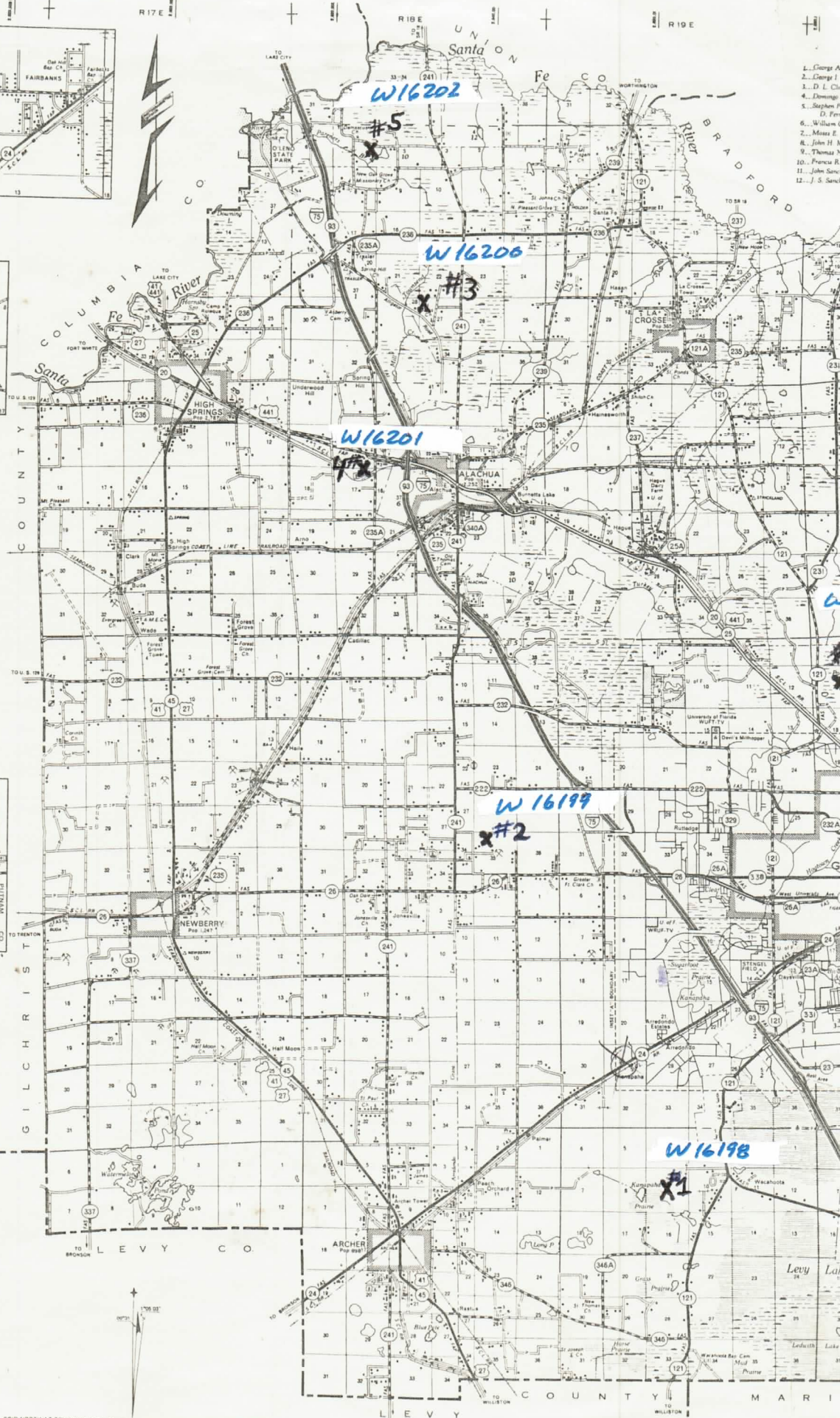
INSET "E"
T 9 S - R 22 E



INSET "F"
T 9 S, T 10 S - R 22 E



INSET "G"
T 10 S - R 21 E, R 22 E



GRID NORTH AT TRIANGULATION STATION "TIGER" IS 1°06'00" EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1963 IS APPROXIMATELY 1°07' EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 1"00" WESTWARD

1. George A.
2. George I.
3. D. L. Ch.
4. Donaghy
5. Stephen F.
6. D. F.
7. William C.
8. John H.
9. Thomas N.
10. Francis R.
11. John S.
12. J. S. S.

W16199
ALACHUA #2

SEC 35, T9S, R 18E

- 0-2 topsoil, sand
- 2-6 clay, red, fine sand
- 6-21 clay, gray, little sand
- 21-36 clay, gray to a light cream color, sand fine grain
- 36-37 limenock, white, crumbly, (^{*}OCMA) Loss circulation



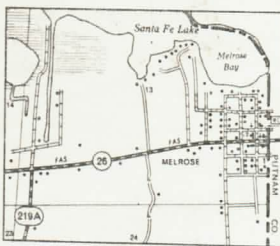
INSET "B"
T 9 S - R 20 E



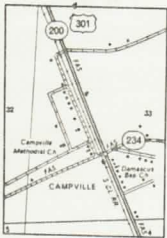
INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



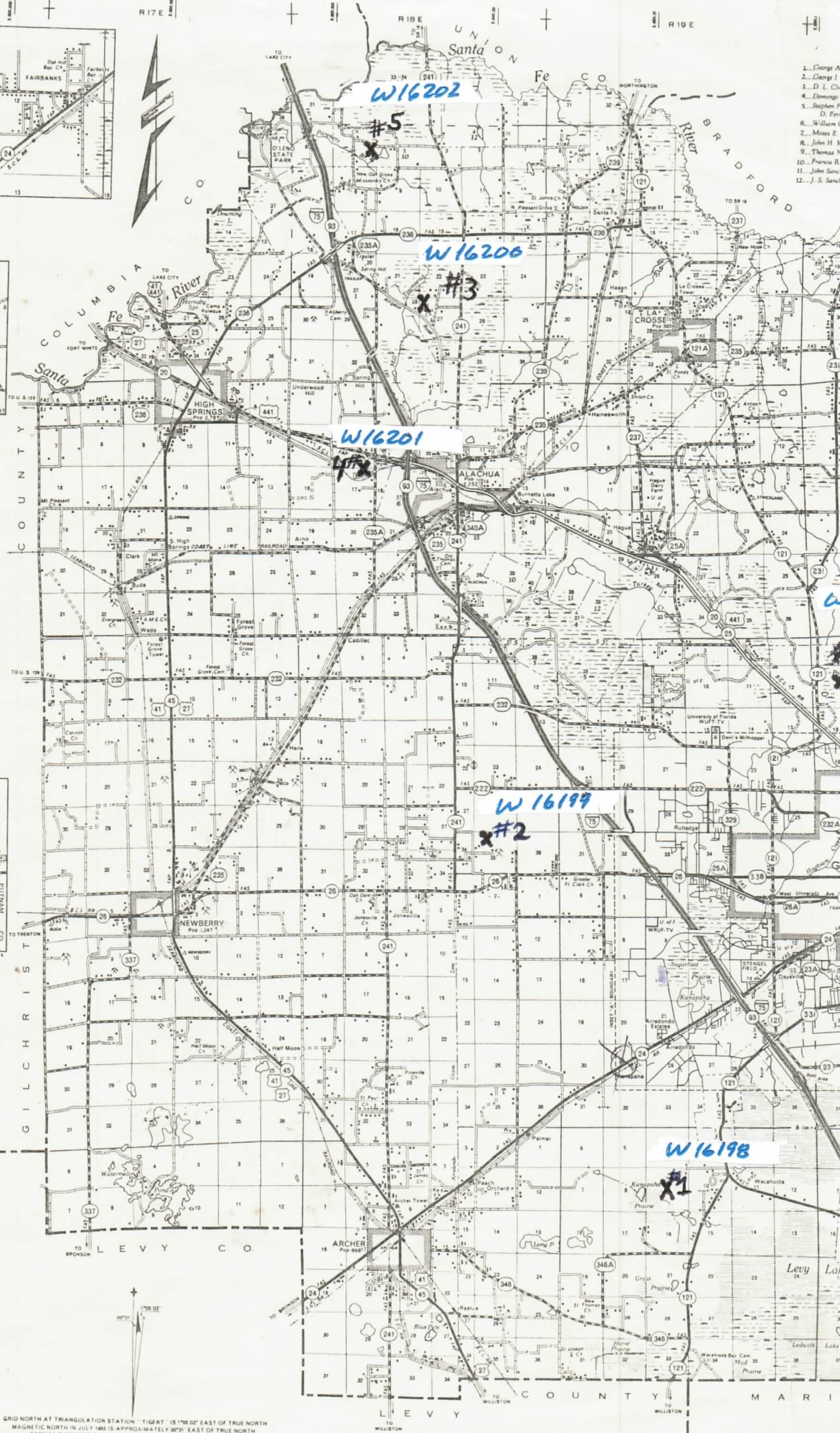
INSET "E"
T 9 S - R 22 E



INSET "F"
T 9 S, T 10 S - R 22 E



INSET "G"
T 10 S - R 21 E, R 22 E



GRID NORTH AT TRIANGULATION STATION "TIGER" IS 1°00'00" EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1963 IS APPROXIMATELY 1°00'00" EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 1°00'00" WESTWARD

W16200

ALACHUA #3

SEC 27, T7S, R18E

- 0-1 topsoil
- 1-14 clay, white-sandy, some phosphate 0-2, dolimitic frag
- 14-21 clay, yellow sandy
- 21-30 sand, small grain, clayey, white turning more sandy with depth
- 30-42 clay, pale green, sandy * 37' Limestone dense sandstone taking small amount of water (could drive spool only 1' on 40.5-42)
- 43-44 Limestone, white
- 44-50 mudstone, green * streak of Limestone at 47'
- 50-52 Limestone, sandy (HARD DRIVE 1 1/2') taking fluid
- 52-54 Limestone, white, ~~sandy~~, HARD
- 54-67 Limestone, white, sandy
- 67-80 Limestone, white turning gray some white clay
- 80-85 Limestone, gray, sandy (83-HARD)
- 85-90 Limestone, white crumbly Ocala



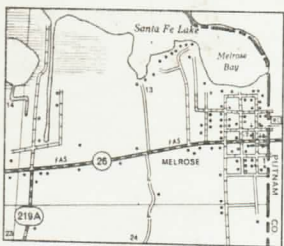
INSET "B"
T 9 S - R 20 E



INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



W16201

ALACHUA #4

SEC 17, T8S, R18E

- 0-13 clay, reddish brown, sandy
13-22 clay, white sandy
22-35 SAND, white, clay white turning brown 28-
35 -52 Loss circulation, clay white, some red brown clay
52 - ~~Limestone~~, white, Ocala



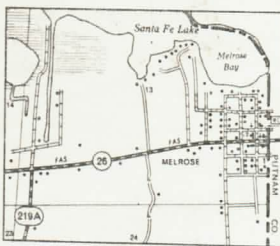
INSET "B"
T 9 S - R 20 E



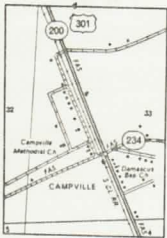
INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



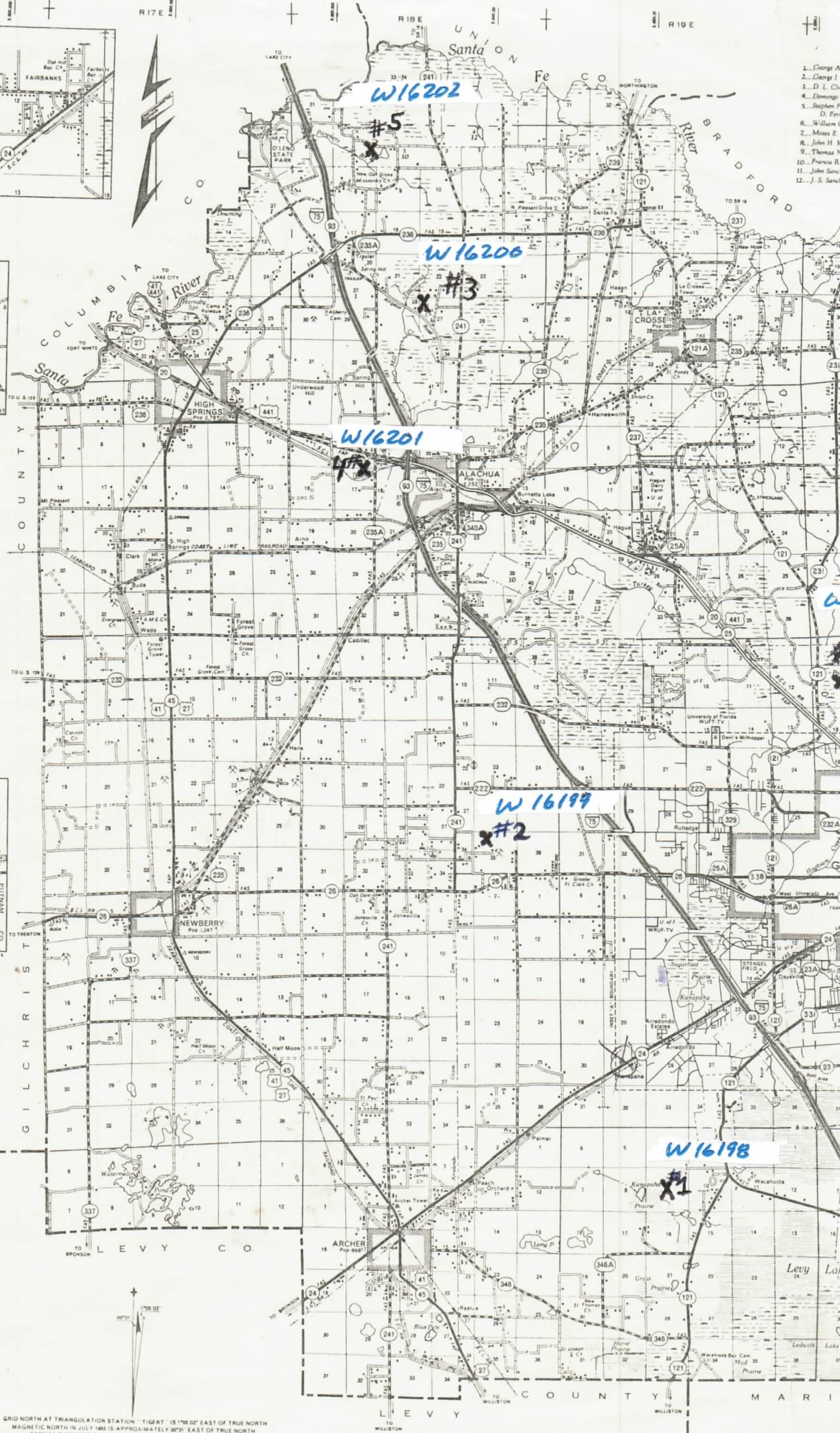
INSET "E"
T 9 S - R 22 E



INSET "F"
T 9 S, T 10 S - R 22 E



INSET "G"
T 10 S - R 21 E, R 22 E



GRID NORTH AT TRIANGULATION STATION "TIGER" IS 1°06'00" EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1963 IS APPROXIMATELY 1°07' EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 1"00" WESTWARD

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4. Donaghy
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12. J. S. S.

W16202
ALACHUA #5

SEC. 5, T7S, R18E

- 0-9 clay, reddish brown, sand
9-12 SAND, white
12-18 clay, yellow sandy finegrain
18-20 clay yellow
20-30 clay, yellow, white, chert fragments
30-45 clay, white, Sandy, some sand cemented together
45-63 clay, white sandy, rock stringers
63-66 rock, sandy (64 taking fluid)
66-80 rock, and clay streaks
80-85 rock (80.5-NO DRIVE)
85-101 - rock, white no circ. - Ocala - (101)* had drive 6"
- (30.5-31 HARD DR
(43.5-45 good sam
(80.5-NO DRIVE)
NO sample / loss circulation 85'



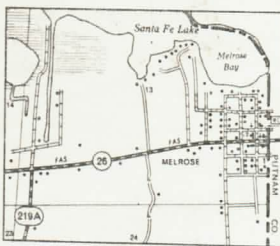
INSET "B"
T 9 S - R 20 E



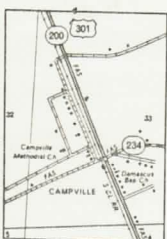
INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



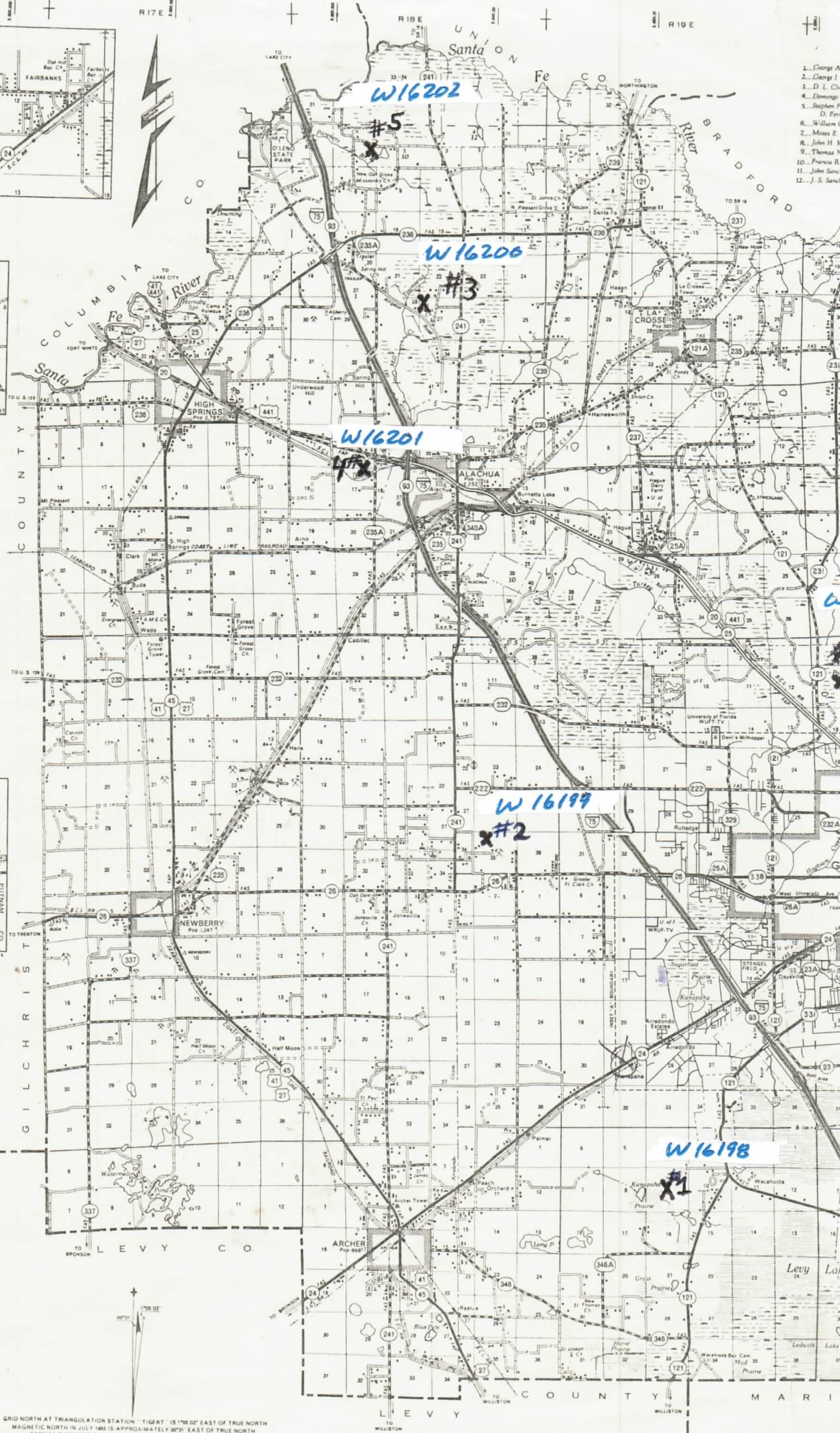
INSET "E"
T 9 S - R 22 E



INSET "F"
T 9 S, T 10 S - R 22 E



INSET "G"
T 10 S - R 21 E, R 22 E



GRID NORTH AT TRIANGULATION STATION "TIGER" IS 1°06'00" EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1963 IS APPROXIMATELY 1°07' EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 1"00" WESTWARD

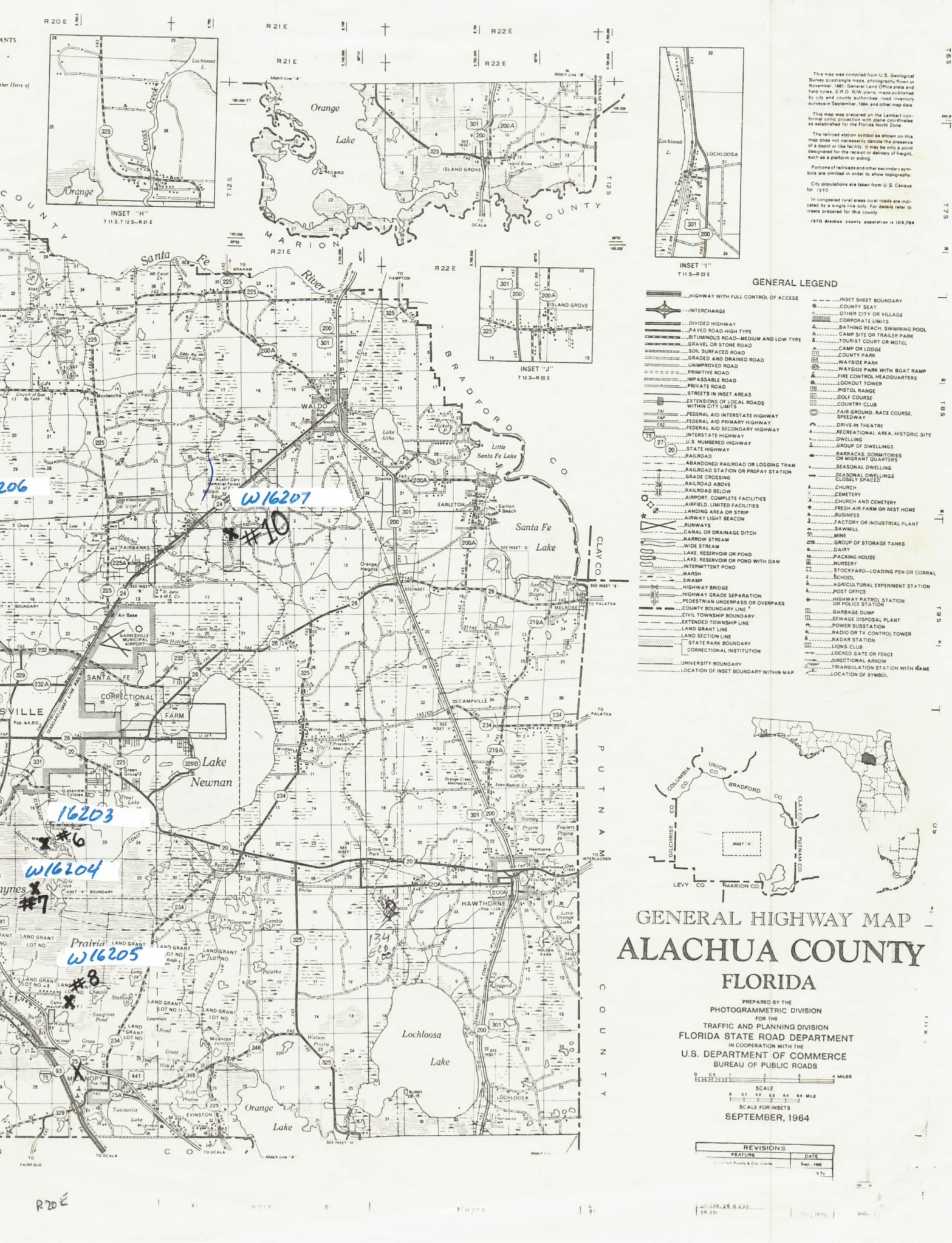
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2. George I.
3. D. L. Ch.
4. Donaghy
5. Stephen F.
6. D. F.
7. William C.
8. John H.
9. Thomas N.
10. Francis R.
11. John S.
12. J. S. S.

W16203
Alachua #6

SEC 22 T10S, R20E

- 0-2 top soil
- 2-18 clay, gray, sand, fine grain
- 18-29 clay, gray, green, sand, less sand than above
- 29 - limenock, white, fossiliferous

NOTE: proj well loc map shows sec 21



This map was compiled from U.S. Geological Survey quadrangle maps, photography flown in November, 1961, General Land Office plans and field notes, S.R.D. R/W plans, maps published by city and county authorities, road inventory surveys in September, 1964, and other map data.

This map was prepared on the Lambert conformal conic projection with plane coordinates as established for the Florida North Zone.

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Portions of railroads and other secondary symbols are omitted in order to show topography.

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1970 Alachua County population is 104,764.

GENERAL LEGEND

- HIGHWAY WITH FULL CONTROL OF ACCESS
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- DIVIDED HIGHWAY
- PAVED ROAD-HIGH TYPE
- BITUMINOUS ROAD-MEDIUM AND LOW TYPE
- GRAVEL OR STONE ROAD
- SOIL SURFACED ROAD
- GRADED AND DRAINED ROAD
- UNIMPROVED ROAD
- PRIMITIVE ROAD
- IMPASSABLE ROAD
- PRIVATE ROAD
- STREETS IN INSET AREAS
- EXTENSIONS OF LOCAL ROADS WITHIN CITY LIMITS
- FEDERAL AID INTERSTATE HIGHWAY
- FEDERAL AID PRIMARY HIGHWAY
- FEDERAL AID SECONDARY HIGHWAY
- INTERSTATE HIGHWAY
- U.S. NUMBERED HIGHWAY
- STATE HIGHWAY
- RAILROAD
- ABANDONED RAILROAD OR LOGGING TRAM
- RAILROAD STATION OR PREPAY STATION
- GRADE CROSSING
- RAILROAD ABOVE
- RAILROAD BELOW
- AIRPORT, COMPLETE FACILITIES
- AIRFIELD, LIMITED FACILITIES
- LANDING AREA OR STRIP
- AIRWAY LIGHT BEACON
- RUNWAYS
- CANAL OR DRAINAGE DITCH
- NARROW STREAM
- WIDE STREAM
- LAKE, RESERVOIR OR POND
- LAKE, RESERVOIR OR POND WITH DAM
- INTERMITTENT POND
- SWAMP
- HIGHWAY BRIDGE
- HIGHWAY GRADE SEPARATION
- PEDESTRIAN UNDERPASS OR OVERPASS
- COUNTY BOUNDARY LINE
- EXTENDED TOWNSHIP BOUNDARY
- LAND GRANT LINE
- LAND SECTION LINE
- STATE PARK BOUNDARY
- CORRECTIONAL INSTITUTION
- UNIVERSITY BOUNDARY
- LOCATION OF INSET BOUNDARY WITHIN MAP
- INSET SHEET BOUNDARY
- COUNTY SEAT
- OTHER CITY OR VILLAGE
- CORPORATE LIMITS
- BATHING BEACH, SWIMMING POOL
- CAMP SITE OR TRAILER PARK
- TOURIST COURT OR MOTEL
- CAMP OR LODGE
- COUNTY PARK
- WAYSIDE PARK
- WAYSIDE PARK WITH BOAT RAM
- FIRE CONTROL HEADQUARTERS
- LOOKOUT TOWER
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- GROUP OF DWELLINGS
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- CHURCH AND CEMETERY
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- FACTORY OR INDUSTRIAL PLANT
- SAWMILL
- MINING
- GROUP OF STORAGE TANKS
- DAIRY
- PACKING HOUSE
- JUREBY
- STOCKYARD-LOADING PEN OR CORRAL
- SCHOOL
- AGRICULTURAL EXPERIMENT STATION
- POST OFFICE
- HIGHWAY PATROL STATION OR POLICE STATION
- GARAGE DUMP
- SEWAGE DISPOSAL PLANT
- POWER SUBSTATION
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- RADAR STATION
- LIONS CLUB
- LOCKED GATE OR FENCE
- DIRECTIONAL ARROW
- TRIANGULATION STATION WITH NAME
- LOCATION OF SYMBOL

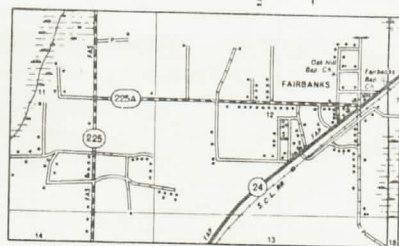
GENERAL HIGHWAY MAP ALACHUA COUNTY FLORIDA

PREPARED BY THE
PHOTOGRAMMETRIC DIVISION
FOR THE
TRAFFIC AND PLANNING DIVISION
FLORIDA STATE ROAD DEPARTMENT
IN COOPERATION WITH THE
U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

0 0.5 1 2 3 4 MILES
0 0.1 0.2 0.3 0.4 0.5 MILE
SCALE FOR INSETS

SEPTEMBER, 1964

REVISIONS	
FEATURE	DATE
Added Route 6 and City Limits	Sept., 1964
	1971



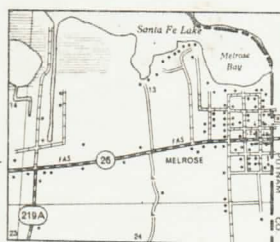
INSET "B"
T 9 S - R 20 E



INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



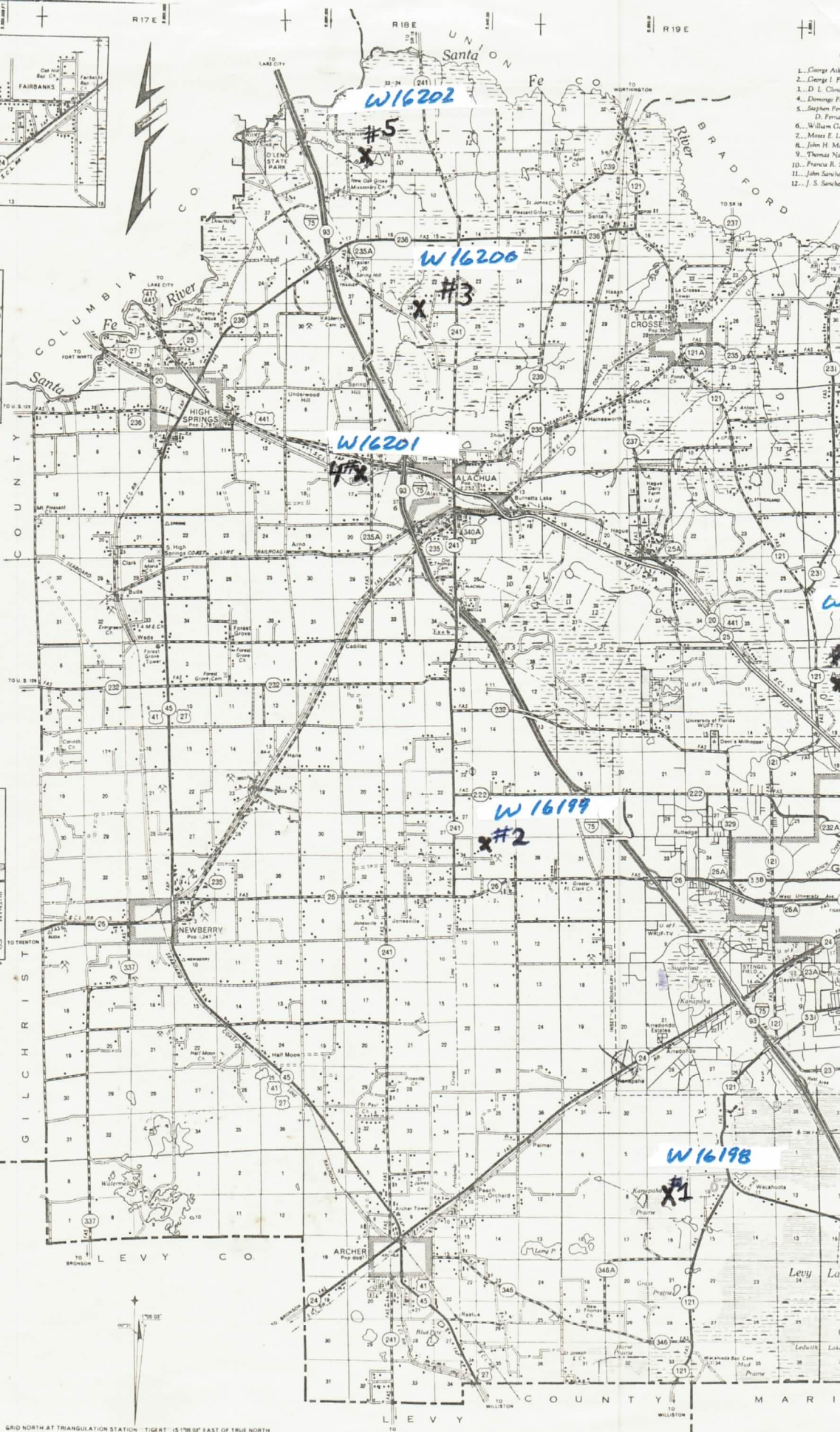
INSET "E"
T 9 S - R 22 E



INSET "F"
T 9 S - R 22 E



INSET "G"
T 10 S - R 21 E - R 22 E



GRID NORTH AT TRIANGULATION STATION "TIGERT" IS 1°08'00" EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1965 IS APPROXIMATELY 0°02' EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 0°01' WESTWARD

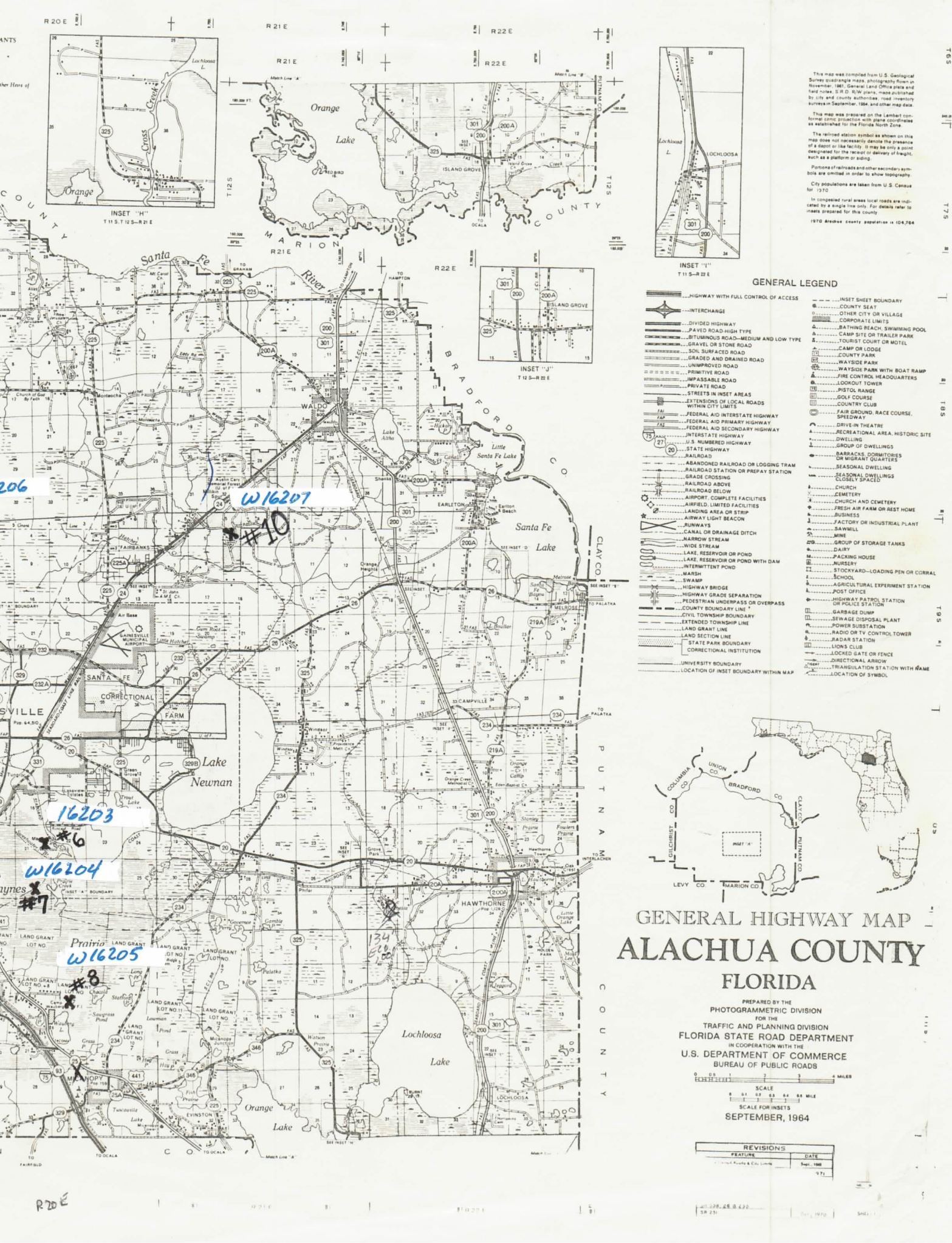
1. George A. ...
2. George I. ...
3. D. L. ...
4. ...
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12. ...

Ahachwa #7

W16204

SEC 28, T10S, R2

- 0-12 organic material, clay, gray
- 12-28 clay, white fresh water snail shells numerous
- 28-30 clay, gray, snail shells, some organic material
- 30-39 organic material very dark, (37' sand streak)
- 39-40 rock, ocala



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- LAKE, RESERVOIR OR POND WITH DAM
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- LOCATION OF SYMBOL

GENERAL HIGHWAY MAP ALACHUA COUNTY FLORIDA

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0 0.5 1 2 3 4 MILES
0 0.1 0.2 0.3 0.4 0.5 MILE
SCALE FOR INSETS

SEPTEMBER, 1964

REVISIONS	
FEATURE	DATE
Added Route 6 and City Limits	Sept., 1964
	1971



INSET "B"
T 9 S - R 20 E



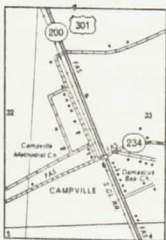
INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



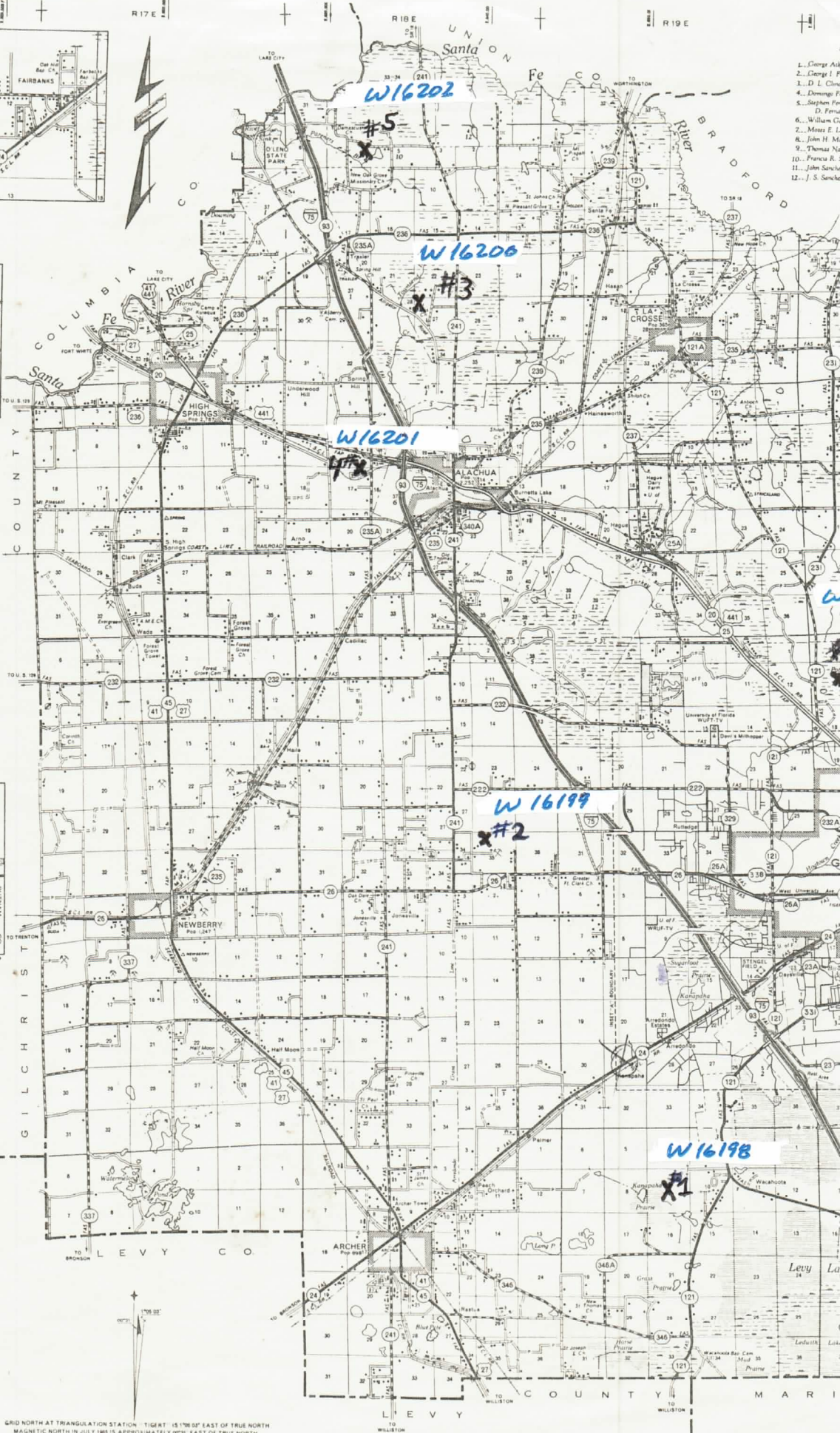
INSET "E"
T 9 S - R 22 E



INSET "F"
T 9 S - R 22 E



INSET "G"
T 10 S - R 21 E - R 22 E



GRID NORTH AT TRIANGULATION STATION "TIGERT" IS 17°02' EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1963 IS APPROXIMATELY 69° EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 14' WESTWARD

1. George A. ...
2. George I. ...
3. D. L. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
10. ...
11. ...
12. ...

Alachua #8

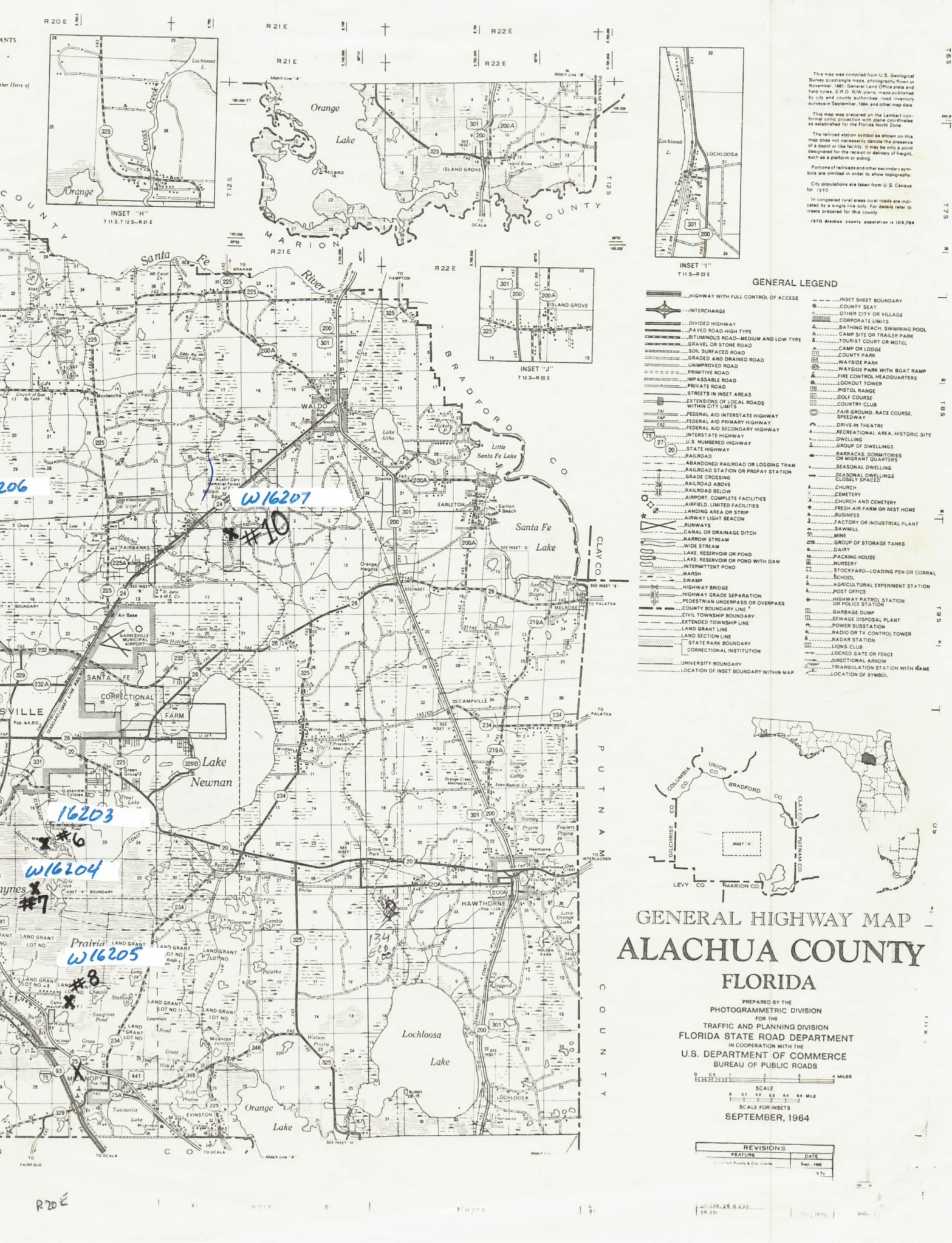
Sec. 9

T11S

R2

W 16205

- 0-7 SAND, top soil
- 7-13 SAND, COARSE, HARD DRIVE 10'
- 13-26 SAND, clay, white turning more clayey toward bottom
- 26-38 clay, yellow HARD DRIVE 40'
- 38-45 clay, white & yellow
- 45-59 clay, green sandy
- 59-64 limerock, white, taking flint, phosphate pebbles
present, sand possibly 50'-51'??
- 64-65 loss circulation, rock
HARD DRIVE 65', SANDY rock



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- WAYSIDE PARK
- WAYSIDE PARK WITH BOAT RAM
- FIRE CONTROL HEADQUARTERS
- LOOKOUT TOWER
- PISTOL RANGE
- GOLF COURSE
- COUNTRY CLUB
- FAIR GROUND, RACE COURSE, SPEDWAY
- DRIVE-IN THEATRE
- RECREATIONAL AREA, HISTORIC SITE
- DWELLING
- GROUP OF DWELLINGS
- BARRACKS, DOMESTONES OR MIGRANT QUARTERS
- SEASONAL DWELLINGS
- CLOSELY SPACED
- CEMETERY
- CHURCH AND CEMETERY
- FRESH AIR FARM OR REST HOME
- BUSINESS
- FACTORY OR INDUSTRIAL PLANT
- SAWMILL
- MINING
- GROUP OF STORAGE TANKS
- DAIRY
- PACKING HOUSE
- JUREBY
- STOCKYARD-LOADING PEN OR CORRAL
- SCHOOL
- AGRICULTURAL EXPERIMENT STATION
- POST OFFICE
- HIGHWAY PATROL STATION OR POLICE STATION
- GARAGE DUMP
- SEWAGE DISPOSAL PLANT
- POWER SUBSTATION
- RADIO OR TV CONTROL TOWER
- RADAR STATION
- LIONS CLUB
- LOCKED GATE OR FENCE
- DIRECTIONAL ARROW
- TRIANGULATION STATION WITH NAME
- LOCATION OF SYMBOL

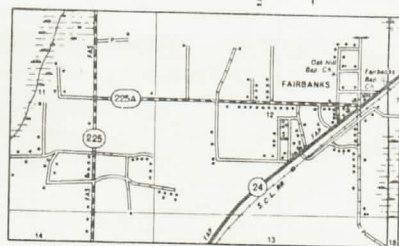
GENERAL HIGHWAY MAP ALACHUA COUNTY FLORIDA

PREPARED BY THE
PHOTOGRAMMETRIC DIVISION
FOR THE
TRAFFIC AND PLANNING DIVISION
FLORIDA STATE ROAD DEPARTMENT
IN COOPERATION WITH THE
U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

0 0.5 1 2 3 4 MILES
0 0.1 0.2 0.3 0.4 0.5 MILE
SCALE FOR INSETS

SEPTEMBER, 1964

REVISIONS	
FEATURE	DATE
Added Route 6 and 10	Sept. 1964
	1971



INSET "B"
T 9 S - R 20 E



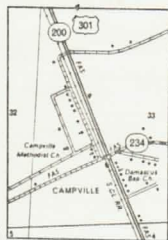
INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



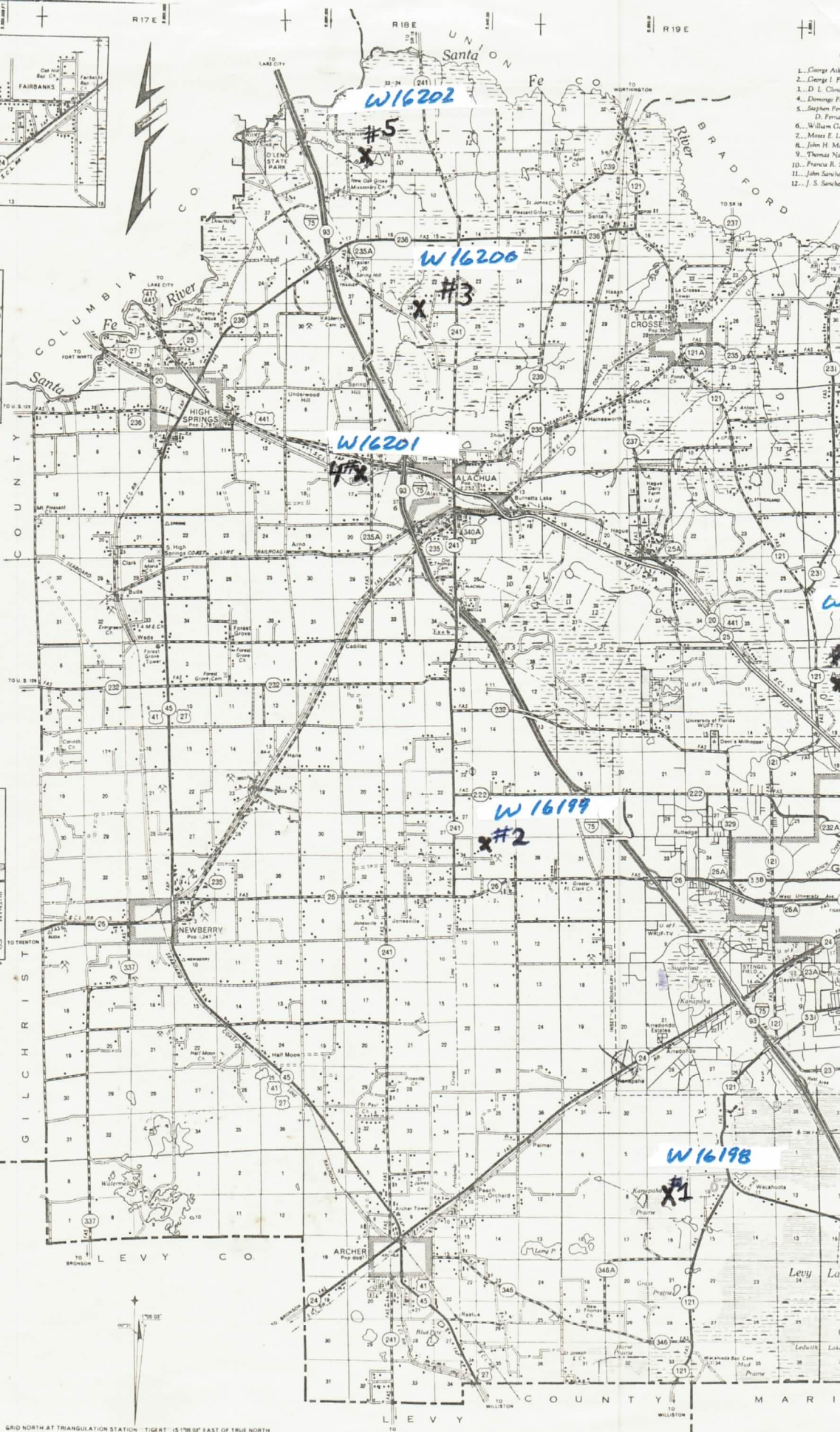
INSET "E"
T 9 S - R 22 E



INSET "F"
T 9 S - R 22 E



INSET "G"
T 10 S - R 21 E - R 22 E



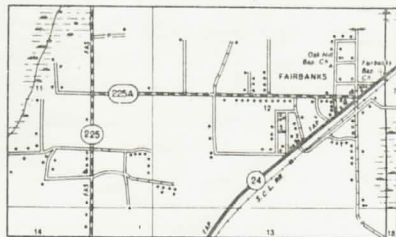
GRID NORTH AT TRIANGULATION STATION "TIGERT" IS 1°08'02" EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1965 IS APPROXIMATELY 69°1' EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 0.45" WESTWARD

1. George A. ...
2. George I. ...
3. D. L. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
10. ...
11. ...
12. ...

ALACHUA #9
W16206

S 6 , T9S, R20E

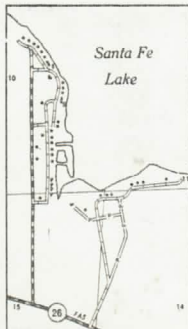
- 0-6 SAND
- 6-20 clay, gray some sand
- 20-32.5 clay, sandy coarse, phosphate, soft crumbly, wet
- 32.5-36 rock, dolomite tan * set 35' of 4" casing
- 36-43 Limerock, sandy, soft
- 43-45 clay, gray to green
- 45-59 clay, sandy, gray, phosphate (50' good drive)
- 59-80 clay, white and sandy, wet streaks common (60' slow drill 64-80, sandy green clay, 73' rock streak (80' HARD Drive, tight clay)
- 80-95 clay, green, some rock (100' HARD Drive)
- 95-107 clay green / 107, wet streak, (110' fair drive 12" stop on dolomite brown
- 111-114 dolomite brown
- 114-120 limerock white, soft



INSET "B"
T 9 S - R 20 E



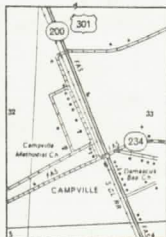
INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



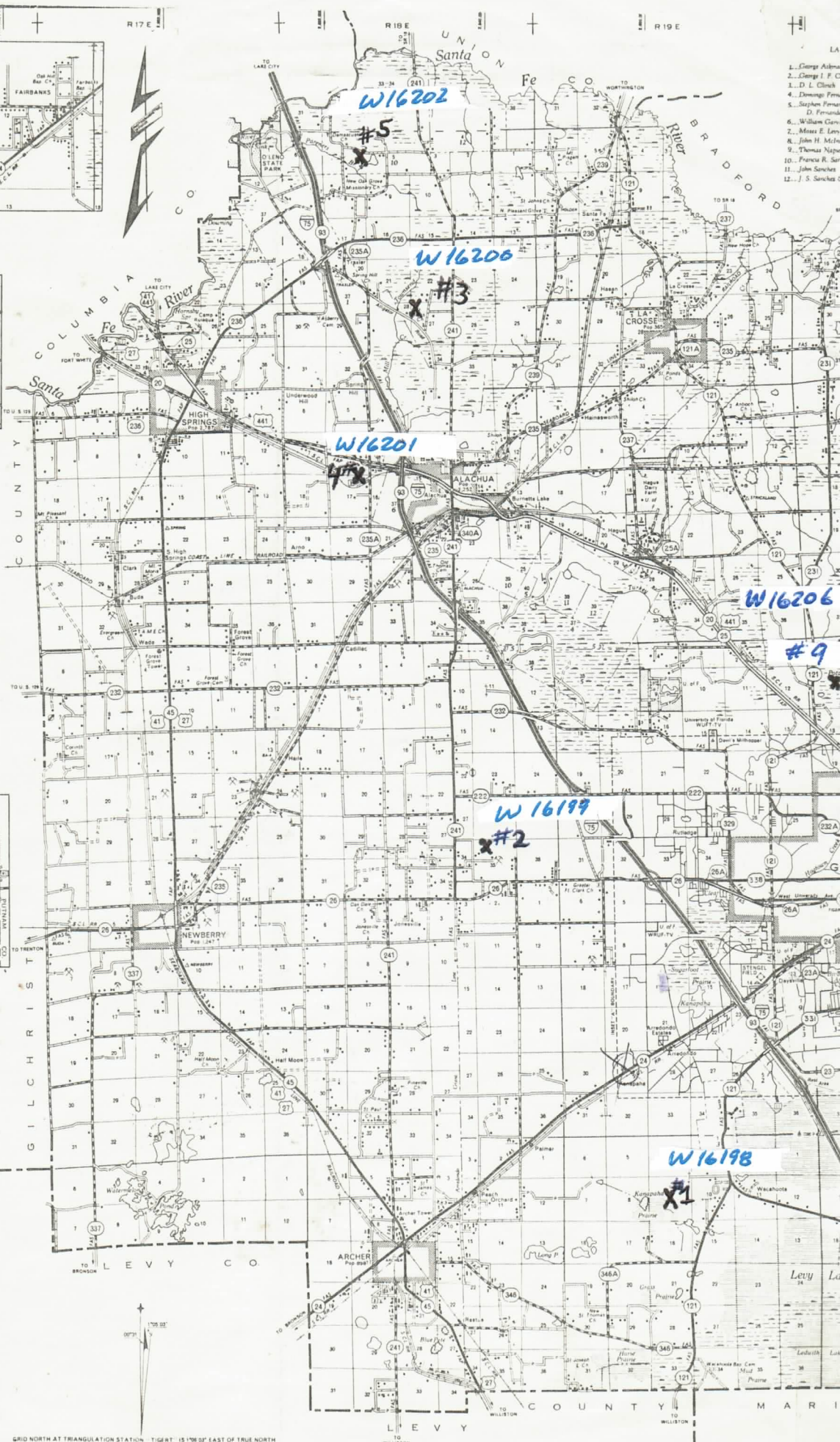
INSET "E"
T 9 S - R 22 E



INSET "F"
T 10 S - R 22 E



INSET "G"
T 10 S - R 22 E



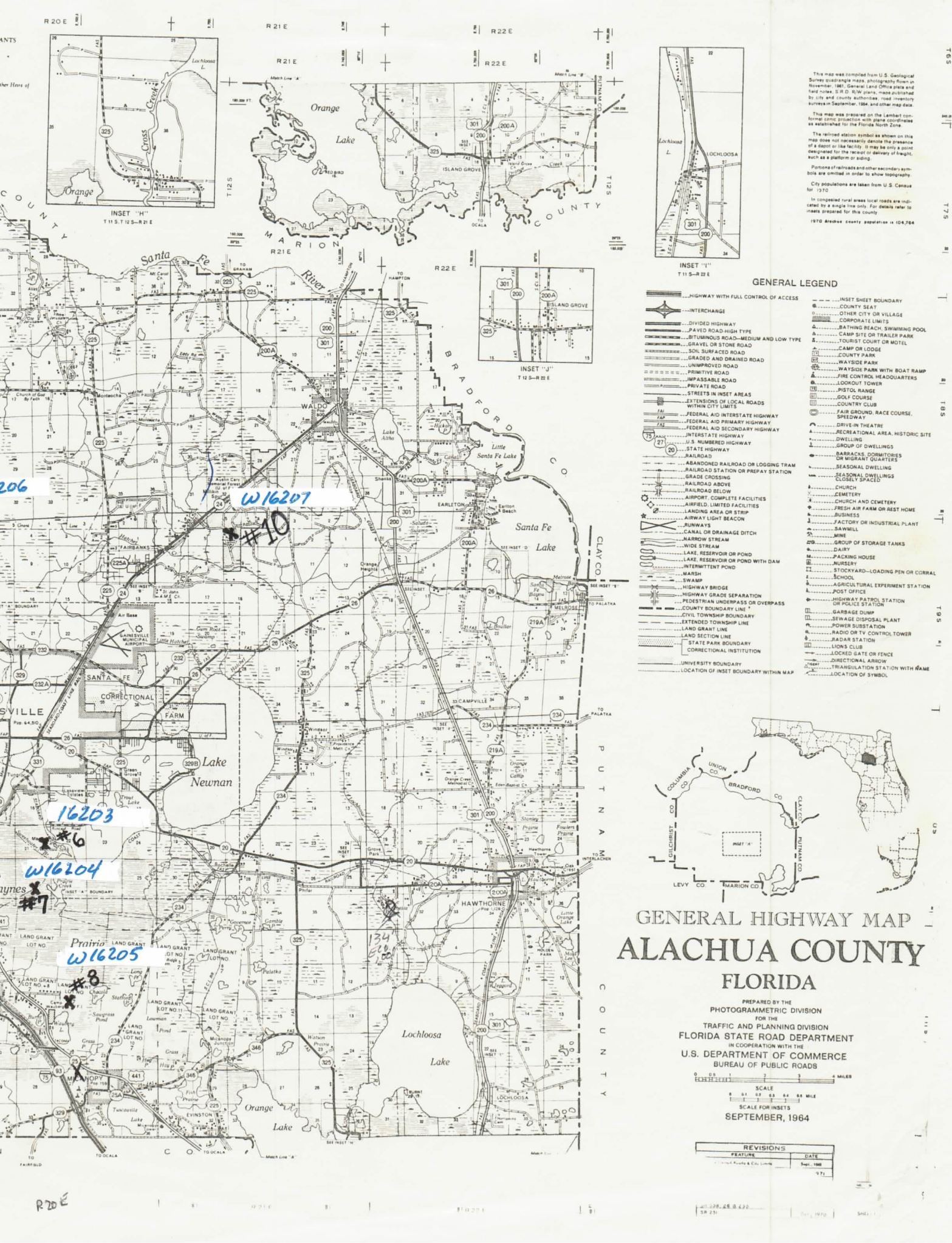
1. George Adams
2. George I. P. C.
3. D. L. Clough
4. Deming Ferry
5. Stephen Fennell
6. William G. G.
7. Moss E. Levy
8. John H. Mc
9. Thomas Nap
10. Francis R. S.
11. John Sanchez
12. J. S. Sanchez

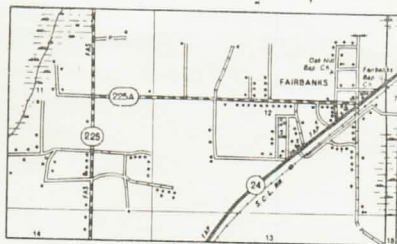
GRID NORTH AT TRIANGULATION STATION "TIGERT" IS 1°02' EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1985 IS APPROXIMATELY 80° EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 36.45' WESTWARD

SEC 4, T9S R21E

ALACHUA #10
W16207

- 0-4 fill
- 4-6 SAND, ORGANIC
- 6-7 SAND, fine grain
- 7-11 sand, packed, clay gray, some coarse sand
- 11-15 sandy clay, gray, medium to coarse grain
- 15-27 clay, green, turning more sandy 24↓
- 27-51 sandy clay with phosphate, clay white to gray *SET 34' of 6" casing
- 51-64 clay, green to olive, sand
- 64-67 clay, gray
- 67-69 clay, gray with phosphate + rock
- 69-84 rock, phosphate embedded, green clay
- 84-94 dolomite, green gray clay, phosphate
- 94-99 dolomite, phosphate
- 99-178 dolomite, green clay, near with
3 7/8 tricone 130' - 159' NO SAMPLES
CORE from 159-182
- 178 - Ocala group, soft, limestone plenty fossils
- *SET. 94' of 4" casing
begin WINELINE CORE 99'





INSET "B"
T 9 S - R 20 E



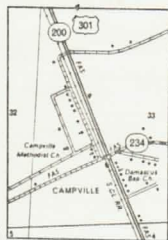
INSET "C"
T 9 S - R 22 E



INSET "D"
T 9 S - R 22 E



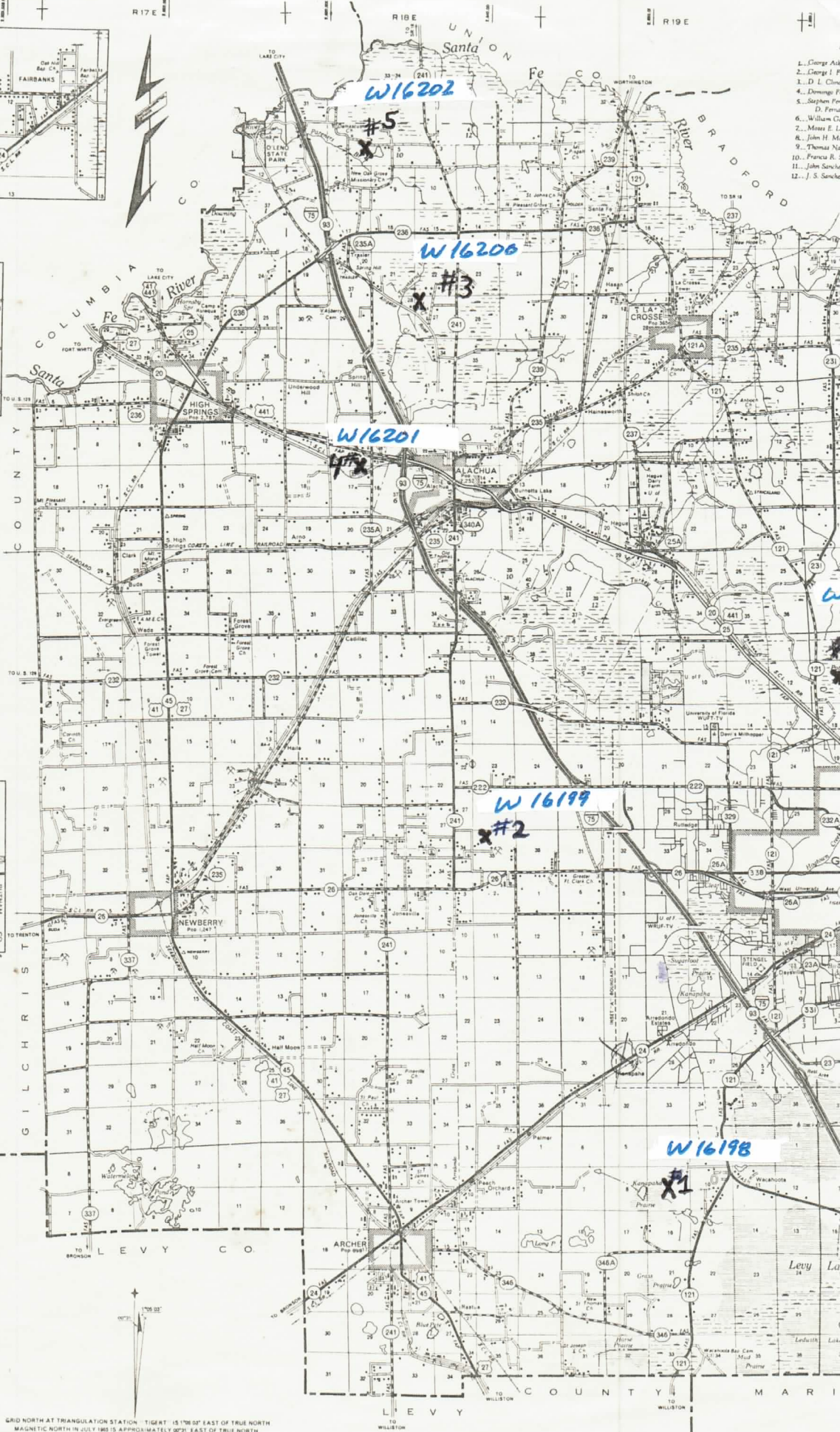
INSET "E"
T 9 S - R 22 E



INSET "F"
T 9 S - R 22 E



INSET "G"
T 10 S - R 21 E - R 22 E



GRID NORTH AT TRIANGULATION STATION "TIGERT" IS 1°08'00" EAST OF TRUE NORTH
MAGNETIC NORTH IN JULY 1965 IS APPROXIMATELY 0°01' EAST OF TRUE NORTH
ANNUAL MAGNETIC CHANGE IS APPROXIMATELY 0°01' WESTWARD

1. George A. ...
2. George I. ...
3. D. L. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. ...
10. ...
11. ...
12. ...

BROOKS SINK #1

- 0-22 - coarse sand
 22-28 - green clay
 28-33 - sand
 33-35 green clay with phosphate nodules
 35-43 - white chalk, intermittent green clay streaks + phosphate
 43-46 cream colored rock + clay (loss 43' 1/2' - 46') - soft clay
 46-52 sandy cream colored rock with phosphate (51' black sand)
 52-54 light gray fossiliferous rock
 54-60 dense cream rock with phosphate
 60-62 greenish gray clay
 62-63 cream rock
 63-69 gray rock lots of phosphate nodules
 69-72 gray clay
 72-80 sandy gray clay + tan rock

173 - loss in

have down

Ocala 187 full of flat discs fast drill

295 - HARDER

Brooker Flc. 32622

485-1240

Rt. 1 Box 314

Container Corp of America

F-02366

\$139.50
 241.50
 381.00

motor oil
 bailer
 any N-3 subso

c.

take bit 7" build up
 NEED: DIAMOND REPS?
 PRICE ON BEAN PUMP
 TONEY
 3 1/8" bit - 2 3/8" API
 3 - N-3 rod couplings
 6 - box N-3 threads
 \$139.50
 3 \$80.50
 \$390.00
 Treas

80-85	gray rock & clay	
85-103	gray clay	rock streak 95 1/2
103-107 1/2	gray rock	* (105 begin windie)
107 1/2-109	green clay	
109-109 1/2	white rock	
109-113	green clay	(tight)
113-116	rock gray hard	
116-122	green clay	
122-124	sandy rock	
124-129	hard cream rock	
129-131	black rock with large shells	
131-137	dark sandy clay	(loss 3') problem
137-153	hard grey rock	(loss 2' 43-45) b
153-161 1/2	sandy rock streaks of green gray clay	(loss 1 1/2 154)
161 1/2-170	black sandy clay	
170-173	clay with rock streaks	
173-174	hard white dense rock	(loss in 173)
175-186	pebbly tan rock (water basin)	(loss 1 1/2 176-77)
186-254	soft crumbly fossiliferous cream rock	(loss 180-82) loss (85-87)
		loss 55-56)
		61-62
		64-67
		64-67
		72-73
		75 1/2 77
277-311	gray rock	loss 1' (81-82)
		loss (306-307)
	* (handwritten 322-324)	(309-10)
324-332	Soft gray	315-16
332-43	tan little hard	320-22
345-348	harder	loss 340-42
347-	crumbly cream	46-47
	60 1/2 hard	
	T.D 361-	

BRADFORD COUNTY

W17318 CORE ANDREWS #1

SE/SE, S21, T6S, R20E

permit # 55168

- 0-25 SAND, yellow, white, Fine grain
25-34 clay, SANDY, white
34-37 clay, with coarse sand, phosphate
37-45 SAND, coarse, phosphate pebbles(tan)
45-47 clay, yellow
47-76 clay, white
76-77.5 Rock, gray fine grained
77.5-89.5 clay, green, rock fragments, phosphate
89.5-95 Rock, dirty gray, white clay, phosphate grains

W17319 ANDREWS #2

100 yds east of #1

- 0-6 SAND, yellow fine grain
6-17 clay, white
17-39 clay, white SANDY
39-60 clay, yellow, whitish streaks

W17320 ANDREWS #3

100 yds southeast #1

- 0-10 SAND, white + pinkish clay
10-19 clay, SANDY, white + yellow
19-42 clay, white
42-44 Rock, yellowish orange, phosphate, orange clay
44-45 Rock, yellow, orange color
45-60 clay, white, yellow, ^{47'}brown, ^{50'}green, ^{56'}green

★ #1 WAS CORED, #2, #3 cuttings were taken
NO WELL WAS COMPLETED - 8/17/95

BRADFORD COUNTY

W17318 CORE ANDREWS #1

SE/SE, S21, T6S, R20E

permit # 55168

- 0-25 SAND, yellow, white, Fine grain
25-34 clay, SANDY, white
34-37 clay, with coarse sand, phosphate
37-45 SAND, coarse, phosphate pebbles (tan)
45-47 clay, yellow
47-76 clay, white
76-77.5 Rock, gray fine grained
77.5-89.5 clay, green, rock fragments, phosphate
89.5-95 Rock, dirty gray, white clay, phosphate grains

W17319 ANDREWS #2

100 yds east of #1

- 0-6 SAND, yellow fine grain
6-17 clay, white
17-39 clay, white SANDY
39-60 clay, yellow, whitish streaks

W17320 ANDREWS #3

100 yds southeast #1

- 0-10 SAND, white + pinkish clay
10-19 clay, SANDY, white + yellow
19-42 clay, white
42-44 Rock, yellowish orange, phosphate, orange clay
44-45 Rock, yellow, orange color
45-60 clay, white, yellow, ^{47'}brown, ^{50'}green, ^{56'}green

★ #1 WAS CORED, #2, #3 cuttings were taken
NO WELL WAS COMPLETED - 8/17/95

BRADFORD COUNTY

W17318 CORE ANDREWS #1

SE/SE, S21, T6S, R20E

permit # 55168

- 0-25 SAND, yellow, white, Fine grain
25-34 clay, SANDY, white
34-37 clay, with coarse sand, phosphate
37-45 SAND, coarse, phosphate pebbles (tan)
45-47 clay, yellow
47-76 clay, white
76-77.5 Rock, gray fine grained
77.5-89.5 clay, green, rock fragments, phosphate
89.5-95 Rock, dirty gray, white clay, phosphate grains

W17319 ANDREWS #2

100 yds east of #1

- 0-6 SAND, yellow fine grain
6-17 clay, white
17-39 clay, white SANDY
39-60 clay, yellow, whitish streaks

W17320 ANDREWS #3

100 yds southeast #1

- 0-10 SAND, white + pinkish clay
10-19 clay, SANDY, white + yellow
19-42 clay, white
42-44 Rock, yellowish orange, phosphate, orange clay
44-45 Rock, yellow, orange color
45-60 clay, white, yellow, ^{47'}brown, ^{50'}green, ^{56'}green

★ #1 WAS CORED, #2, #3 cuttings were taken
NO WELL WAS COMPLETED - 8/17/95

W17321 Cypress Run #1 SE/SE S29, T6S, R21E

Permit # 55171

- 0-13 clay, gray
- 13-17 clay, green
- 17-20 clay, yellow
- 20-24 clay, white
- 24-36 Rock, limestone gray + brown
- 36-37 CAVITY; loss circulation
- 37-40 Rock
- 40 clay

cuttings

cuttings taken
 27' of 4" casing
 open hole to 40'
 12' static; pump 50 gpm
 completed 8/20/95

W17322 cuttings Cypress Run #2 SE/SE S29, T6S, R21E (WELL 15' south of #1)
 permit # 55164

- 0-12 SAND, white fine grain
- 12-15 SAND, clayey, gray phosphate grains
- 15-24 clay, white
- 24-52 Rock, brown, lite gray + phosphate, loss circulation 3'
- 52 clay

cuttings taken, core 40-45' rock,
 27' of 4" casing, 5 bags portland
 open hole to 52'
 12' static, pump 50 gpm
 completed 9/5/95

W17323

Cypress Run #3

S1/4SE, S29, T6S, R21E (Well 15' South of #2)

Permit # SS166

- 0-6 clay, orange + gray, sandy
- 6-13 clay, white
- 13-20 clay, green
- 20-23 clay, white
- 23-33 Rock, brown, white
- 33-34 CAVITY
- 34-50 Rock, brown + white
- 50 clay

Cuttings

24.5' of 8" casing 9 bags portland
open hole to 50'

13' static, pump 50 gpm
completed 9/7/95

W 17324

STARKE

NE/NE, S29, T6S, R22E

cuttings

- 0-3 topsoil, spoil, sand & clay
- 3-20 clay, gray & white color
- 20-52 SAND, fine grained, yellow clay
- 52-62 Rock, brown & orange, gray very soft
- 62-67 clay, gray

52'-6" of 4" PVC 11 bags portland
open hole to 67'
6'6" static level; 35 gpm

completed 10/12/95
permit # 55603

W17325

SAMPSON CITY

NW/NW S8, T7S, 21E

- 0-9 SAND, white, fine grain
- 9-22 clay, green, white streaks Cuttings
- 22-29 clay, ~~black~~ phosphate pebbles
- 29-32 Rock, brown, gray, clay, gray between rock lenses
- 32-42 clay, gray and green
- 42-43 Rock, tan + orange
- 43-47 clay, green
- 47-49 Rock, gray HARD
- 49-60 clay; green

NO WELL completed

W17327

LAKE CROSBY ^{COLE} SW/SW, S24, T6S, R21E

- | | | |
|---------|-------|---|
| 0-3 | SAND | dark, organics |
| 3-9 | SAND | clayey, white, fine grain |
| 9-30.2 | SAND | white, fine grain |
| 30.2-32 | clay | greenish yellow, thin SAND streaks |
| 32-34 | clay | SANDY, white, phosphate grains |
| 34-37.5 | Rock | yellowish to gray with phosphate grains & pebbles |
| 37.5-42 | clay | yellow (no phos.), white to gray lots phosphate pebbles |
| 42-59 | Rock | cream color, shell imprints, gray rock, yellow and gray clay, large amount of phosphate |
| 59-71 | clay, | gray soft, SANDY, phosphatic |

43' of 4" PVC installed 10 bags portland
open hole to 60'
4' static, pump 3 1/2 gpm

completed 9/26/95
permit # 55169

W17328 Kiteville SW/SE, S14, T7S, R21E

cuttings

0-5 SAND, white fine grained
5-18 clay, yellow, sandy, 9' whitish color
18-39 clay, white, sandy
39-44.5 clay, gray, phosphate grains
44.5-45 Rock, white, gray clay & phosphate
45-52 clay, gray & orange rock (rock 49', 51')
52-53 Rock, white
53-59 clay, gray, phosphate
59-72 clay, green
72-80 Rock, gray, phosphatic, clay lenses 75-75.2; green
80 clay green

73 of 4" PVC 18 bags portland
open hole to 80'
11' static, pump at 20 gpm

completed 10/3/95

W 17329 CORE

55th AVE SW/SW, S34, T5S, R22E

0-3	topsoil, organics, black	Fine grained
3-10	sand, white	Fine grained
10-16	clay, white + yellow	
16-18	sand, tan color,	medium grained
18-28	sand, white, clayey,	gray to white
28-33.5	clay, gray,	very tight
33.5-47	sand, white,	Fine grained
47-51	Rock, clayey,	gray clay, gray rock soft
51-72	Rock, gray, tan color,	soft poor recovery ^{testing} Fluid
72-87	Rock, gray, greenish in color,	grain to few pebble
	size phosphate, some clayey sections	

66' of 4" PVC 15 bags portland
open hole to 87'
11 static, 15 gpm

completed 10/24/95
permit # 55172

W17330 CORE

GP.-229 NE/SW, S2, T6S, R21E

- 0-3 topsoil, black sandy
- 3-8 clay, gray, red streaks, more white toward bottom
- 8-15 clay, red + white *11-12' split spoon sample
- 15-23 sand, white clayey
- 23-34.5 sand, gray, gray clay more than above
- 34.5-38 Rock, hash, yellow, phosphate grains, soft crumbly
- 38-49 Rock, fragments, yellow to cream color, very clayey
- 49-54 clay, green sandy, lots phosphate pebbles + chunks

NO WELL completed

11/3/95

permit # 55165

W 17331 (cuttings)
GATOR CREEK NW, SE, S2, T6S, R21E

0-6 clay, gray disturbed
6-10 clay, grey
10-37 clay, gray, green clay streaks
37-38 Rock, green translucent
38-49 clay, gray
49-68 Rock, gray + brown

49' of 4" PVC, 11 bags portland
open hole to 68'
5 gpm flow; 50 gpm

completed 10/31/95
permit # 55173

W16146 Rookery Bay (Collier County) SEC 17, T51S, R26E

- 0-17 SAND, ORGANIC 5'-10', fine grained
 17-23 SAND, fine grained
 23-31 clay, calcareous, rock, shell, orange brown streak 31'
 31-39 Limestone, shelly, breaking up badly in cone barrel
 39-80 Limestone, very fossiliferous, large shells, white
 80-90 Limestone, as above but turning gray color
 90-125 Limestone, gray becoming fine grained
 125-132 Limestone, dark gray more fossils, SAND cemented
 132-135 SANDSTONE
 135-151 SAND, medium to fine grained
 151-165 dolomite, hard drill, phosphate noted at 155'
 165-172 SAND, medium to coarse grained
 172-187 SANDSTONE, HARD DRILL
 187'-200 Loss circulation no cuttings Fast Drill

Set 50' of 4" PVC, grout, drill out bottom ($3\frac{7}{8}$ ") to 80', pumped large volume water (90 gpm), 55 parts salt/1000 5' static level

Back Filled bottom 15' of open hole 65'-80', pumped, volume of water greatly decreased, 54 parts/1000

Relocate rig, drilled to 20' set 10' PVC screen from 9'-19' pumped, 18 parts/1000, 11 gpm pumping trace of SAND

Moved rig back on 1st hole continue coring,
 pump 130'-154' ZONE 53 parts/1000 water color was
 pump 154'-170' ZONE 52 parts/1000 always a tea color
 pump 175'-200' ZONE 52 parts/1000 with lots of suspended
 grout hole From bottom to top. Solids And lots of
 SALT

SAND ZONE 135-151 was cased off with 3" casing, SAND zone at 165-172 was caving badly and could not resume coring without further work

W16/46 ROOKERY BAY (Collier County) SEC 17, R 51s, T 26

- 0-17 SAND, organic 5'-10', fine grained
17-23 SAND, fine grained, green clay 23'
23-31 clay, calcareous, rock & shell miniature, orange brown streaks
31-39 Limestone, shelly, breaking up badly while coring
39-80 Limestone, very fossiliferous, large shells, soft drill

20' TD
Core well

Set 50' of 4" PVC grouted, drilled out bottom with $3\frac{7}{8}$ " bit to 80', pumped, large volume of water, approx 90 gpm, 55 parts salt/1000
5' static level

Backfilled bottom 15' of open hole 65'-80', pumped, volume of water greatly decreased from above
54 parts/1000

Shallow
well

Relocated rig, drilled 20' set 10' PVC screen from 9'-19', pumped 18 parts/1000, 11 gpm
pumping trace of sand

W- 16146
W
Driller's Log

PERMIT # :
OWNER : Rookery Bay
LOCATION : T51S, R26E, Sec 17

COUNTY : Collier
ELEVATION :
DRILLER : John Morrill
STARTED :
COMPLETED : 5/88
DEPTH :
CASING :
HEAD :
YIELD :
USE :
REMARKS :

0 - 17 Sand, organic 5-10', fine grained
17 - 23 Sand, fine grained
23 - 31 Clay, calcareous, rock and shell, orange brown streak 31'
31 - 39 Limestone, shelly, breaking up badly in core barrel
39 - 80 Limestone, very fossiliferous, white, large shells
80 - 90 Limestone, as above but a gray color
90 - 125 Limestone, fine grained, gray
125 - 132 Limestone, dark gray, more fossils, sand cemented
132 - 135 Sandstone
135 - 151 Sand, medium to fine grain
151 - 165 Dolomite, hard drill, 1st phosphate noted at 155'
165 - 172 Sand, medium to coarse grain
172 - 187 Sandstone, hard drill
187 - 200 Loss circulation, no sample, fast drill

Set 50' PVC (4"), grout, drill out bottom with 3 7/8" tricone to 80', pumped large volume of water (90 gpm), 55 parts salt/1000 5' static level. Backfilled bottom 15' of open hole 65-80', pumped, volume of water greatly decreased, 54 parts salt/1000.

Relocate rig, drilled 20', set 10' PVC screen (4") from 9-19' pumped, 18 parts salt/1000, 11 gpm trace of sand.

Moved rig back on 1st hole, continued coring pump 130-154' zone 53 parts/1000 water was always a tea color with lots of solids in suspension and lost of salt.

154-170' zone 52 parts/1000

175-200' zone 52 parst/1000

Sand zone 135-151' was cased off with 3" casing, sand zone at 165-172' was caving badly and could not resume coring (or drilling) with out further casing.

W-16146A

WELL COMPLETION REPORT

FORM 0124
Rev. 4/85

WELL PERMIT NO. _____

DEPARTMENT OF NATURAL RESOURCES, 10 SHELL ISLAND RD. Naples FL. 33962

Owner John Merrill Address 2589 City 304' State 321' Zip _____

License No. 40508 Completion Date 8/10/88 Casing Depth _____ Total Depth _____ Well # _____

Driver's Name JOHN MERRILL Registration No. _____

companion well -
no spcs collected
this is the water
supply well

TYPE OF WORK: Construct ☒ Repair () Abandon ()

WELL USE: Domestic Well () Public () Monitor () Test ()
Irrigation () Fire Well () Other Sanitation

METHOD: Rotary with MUD ☒ or Air () Cable Tool () Jet ()
Casing Driven () Other _____

STATIC WATER LEVEL 12 gpm Flow New top of casing

PUMPING WATER LEVEL _____ Ft. after _____ Hrs. at _____ GPM

PUMP SIZE _____ H.P. CAPACITY _____ GPM

PUMP TYPE _____ INTAKE DEPTH _____ From top of ground

LOCATION

Located Near Rockery Bay
OFF 951 SHELL ISLAND RD.
County COLLIER

17 51S 26E
Section Township Range

Latitude-Longitude

Cuttings sent to District? () Yes
(☒) No

LOCATE IN SECTION

Note: PWS Wells attach a site map if well location is different
from site location on permit application.

Grout	Casing & Screen	Depth (ft)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones
		From	To	
		0	23	SAND Fine grain
	3" PVC	23	31	CLAY white
	0-304'	31	132	Limestone, fossiliferous
		132	135	SAND STONE
		135	151	SAND medium grain
		151	187	SAND & dolomite
	* 187 loss	187	258	SANDY GREEN CLAY
	circulation	258	301	CLAY green should drill
		301	321	Limestone white to gray
Number of bags				
70				

Casing: Black Steel () Galv. () PVC ☒ 3" Fiberglass ()

Screen: Type _____ Slot size _____

Screened from _____ (ft.) to _____ (ft.)

Type of grout with % additives 70 bags portland

Water: Clear () Colored () Sulphur () Salty () Iron ()

Conductivity _____ Chlorides _____ mg/l

Immobile #1 NE 1/4 S3, T47S, R30E
W 16434

- 2 topsoil
- 2-6 sand, fine grain, yellow clay
- 6-12 sand fine grained, white, clay gray
- 12-23 rock, limestone, shell (12-17 hard) 17-23 water producing zone
- 23-37 clay gray, shell *SET 30' of 6" casing
- 37-47 sandy clay, gray clay, coarse sand
- 47-57 clay green, shell, grain size phosphate, large oyster shells
- 57-64 sandy green clay + rock fragments
- 64-69 rock, green clay, very sandy *SET 95' of 4" casing
- 69-98 rock, sandy gray, lots of fossils, shells + phosphate
- 98-122 rock, becoming more sandy, gray, few fossils, phosphate
- 122-127 clay gray sandy
- 127-172 clay, green sandy
- 172-195 clayey sand, green fine grained
- 195-250 sand coarse, phosphate, granular * 195'-267' cuttings
- 250-262 clayey sand, gray clay 272'-298' "
- 262-267 clay, gray + sand 322'-422' cuttings
- 267-269 sandstone *SET 266' of 4" casing
- 269-304 sand, coarse, phosphate, sandstone
- 304-308 sand, fine grain, clay green, tightly packed
- 308-318 sand, sandstone, packed sand, poor recovery
- 388' sand coming in hole ~~300~~ 290-310' zone intermittent hauls
- 388'-412' Clay, green, sandy
- 412-425 rock gray to white + shell & silty *SET 421' of 3" casing
- 425-488 limestone, white, gray, silty material in rock *change bit 456'
- 488-491 - clay green silty
- 491-494 - rock, dolomite hard, some clay layering
- 494-508 - clay, green, tight
- 508-513 - limestone, grain size phos? interbedded, shell

513-532 - limestone, fossiliferous white to cream color

532-546, limestone, ~~and~~ cream, clayey, few fossils

546-549 & limestone, hard, grayish

549-632 limestone, cream color, clayey, clay streaks green

all clay in this zone extremely tight

580-83-black
fast con

526-528- dolomite ^{greenish} hard 559-~~562~~ 562-572 572-583 583-~~584~~

632-633 dolomite greenish hard

47 $\frac{1}{2}$ -49-hard fine
gran

633-652 limestone, cream color, clayey fossiliferous

652-682 limestone, cream color, clay zones

682-715 limestone, cream to dark gray, more phosphate

715 TO shell, clay zone (683), clay 699-701 white
12 gpm flow -

W 16505

29-ALLEY

FAKAHATCHEE STRAND #1 CORE

FEB 1990

- 0-2 fill
- 2-3 topsoil, organics, black T 50S R 29E SEC 4 SW 1/4 of NW 9
- 3-53 rock, Fossiliferous, fragments, difficult to core
crumbly in nature, shell, white to a light yellow
- 53-56 clay, white, rock fragments * SET 50' of 6" casing
- 56-83 Limerock, very Fossiliferous 78-83 coarse sand
83-128 SAND, coarse grained, ^{1st phosphate at 88} sandstone streaks
- 128-217 SAND, coarse to fine grain, green clay streak 158
188-217 fine grain sand
- 217-219 clay, white to pale green slow drill
- 219-255 SAND, coarse to medium grain, shell, ^{"ball bearing"} VERY COARSE
- 255-260 rock, shelly grayish green (no sand)
- 260-274 rock, shell, sandy, gray rock
- 274-278 rock, shell, sandy, gray rock * SET 273' of 4" casing
- 278-295 SAND, fine grain, some sandstone lenses
- 295-372 clay, green, sandy fine grain
- 372-411 clay, green, very tight, slow drill
- 411-422 clay green, sandy
- 422-450 limestone, shell cream color Flow 440'
- 450-452 - limestone, cream color + large shells SAND coming begin wireline core at 450'
- 452-470 limestone (clay streaks at 470') difficult to retrieve inner barrel
crumbly with shells without collapsing hole; having to
embedded, greenish-gray / wash hole before retrieval
with black phos. grains 490-496 run flow doubles approx
- 470-473 limestone, tan, recrystallized 50 gpm so does sand but evented
shell impurities (hard) clears up
- 473-497 limestone, cream color, fossiliferous some mud streaks (473)
- 497-572 limestone, few fossils from 532' clay streaks, very fast
- 572-585 limestone cream color, very clayey (slow core) core 110'/30 min
- 585-588 limestone, fine grained
- 588-593 clay, green very tight, fine sand (slow core)
- 593-601 limestone, ^{green (593)} white, ^{tiny cream color with fossils} fossils, (hardest core yet)
- 601-603 limestone, white (hardest in hole)
- 603-628 limestone, cream color, fossiliferous (612
632 VERY fast core)
- 628-669 limestone, cream color fine grain
- 669-670 limestone, few fossils clayey streaks
- 670- green clay

MARCO ISLAND SEC 8, T52, R26E

W 17115/1046' TD

- 0-5 Spoil, sand, shell, cement
- 5-103 SAND, organics, black to chocolate brown color
- 103-143 SAND, brown, fine grained
- 143-34 SAND, white, fine grained
- 34-383 clay, gray to yellow, sandy
- 383-44 clay, white with limestone fragments
- 44-60 Rock, Limestone, very shelly - soft, Fossiliferous,
breaking up, white to a light yellow *57' of 8" PVC.
- 60-78 Rock, Limestone as above but white color
- 78-81 Rock, Limestone, white very crumbly, coarse grained
- 81-105 Rock, Limestone, white shell molds, some recrystallization
very shelly 90'-95'
- 105-145 Rock, Limestone, gray, some shells, clam shells, fine grained, soft
- 145-151 Rock, Limestone, sandy small pockets of sand
- 151-159 SAND, clayey green, (smeared on core shoe)
- 159-161 Rock, Limestone, hard, black to dark gray, sandy
- 161-171 Rock, Limestone, gray, Fossiliferous, sandy toward bottom
- 171-172 SANDSTONE
- 172-185 SAND, clayey? (180'-85' push into sandy clay; NO recovery)
- 185-189 SAND, clayey, gray clay (185'-89' pushed into, recovered)
- 189-191 SANDSTONE, fine quartz SAND
- 191-195 Rock, sandstone, coarse sand cemented with shells
- 195-212 Rock, sandstone, white to gray, (196'-200' SAND; 208'-212' SAND)
- 212-286 SAND, clayey (*NO recovery*)
- 286-289.3 SANDSTONE
- 289.3-294 CLAY, green sandy
- 294-311 clay, green, very tight, more sandy 306' → 311'

- 311 - 320 clay, sandy, (NO RECOVERY)
- 320 - 328 clay, green, fine sand
- 328 - 330 clay, green, silty sand, hard core
- 330 - 332 Rock, Limestone, light gray color
- 332 - 345 Rock, Limestone, white lots of large shell
Fossils, core breaking-up badly, (332'-333'; 336'-339' soft, No Recrystallized)
* 331' of 4" PVC
* 150 gpm
* Flow at 338'
- 345 - 353 Rock, Limestone, light gray color, hard, recrystallized shell fossils present
- 353 - 362 Rock, Limestone, very shelly, white, some gray Limestone, hard core
- 362 - 371 Rock, Limestone, gray, hard, turning sandy brown
364' sandstone 364' - 371'
- 371 - 407 Rock, Limestone, white, shelly, rock layered with soft material; lime mud or sandy clay
- 407 - 453 Rock, Limestone, sandy & soft, gray to tan color, some fossiliferous soft streaks; as above soft mud or clay
- 453 - 478 Rock, Limestone, gray, sandy, few fossils
- 478 - 479 CAVITY, shell filled
* 250 gpm
* Flow INCREASE
- 479 - 483 Rock, Limestone, tan, very hard no visible fossils
- 483 - 489 Rock, Limestone, gray color, calcarenite, no fossils, fine grained
- 489 - 492 Rock, tan Limestone, hard
- 492.3 - 492.5 Limey mud
- 492.5 - 514 Rock, tan fossiliferous, shelly
- 514 - 535 Rock, Limestone, white, shell molds present
- 535 - 540 Rock, tan Limestone, recrystallized, few fossils
- 540 - 575 Rock, Limestone, white, phosphate grains, shell fossils

- 575-583 Rock, Limestone, gray Fine grained, no fossils
- 583-600 Rock, Limestone, white to (gray 88'-95'), shell
Fossils; phosphate nodules & grains from 85'-88'
- 600-645 Rock, Limestone, white shell Fossils, soft,
phosphate grains moderately Fast core
- 645-686 MARL, green with very thin limestone lenses,
shell embedded very slow core 682'-86'
- 686-717 Rock, hard, white, to lite gray, phosphat grains
- 717-719 CAVITY Increase Flow 300 gpm (salty)
- 719-725 Rock, hard fine grained, gray, no Fossils, highly recrystallized
- 725-768 Rock, white very little phosphate, fossiliferous soft
to medium hard, brown rock layered (hard)
- 768-808 Rock, tan color, possible a cavity 95'-97', more Flow 400 gpm
difficult core water-worn rock + rubble 780'-808'
- 808-814 Rock, dolomite, lite brown, fine grained, no Fossils
- 814-868 Rock, Limestone, brown to pale yellow good core
- 868-885 Rock, Limestone, dirty white to yellow cream color
fossiliferous, shelly, very porous, more Flow diff core
- 885-900 Rock, Limestone, white small Fossils, good
core soft crumbly lite tan to gray color
- 900-1040 Rock, Limestone, white to lite tan color
small fossils pressed together crumbly in parts
Fast core

CORE completed 10/1/93

2/6/92

- 0-10 clay, red, sand fine grain
- 10-14 clay, red, sand medium grain
- 14-22 clay, red & white mottled
- 22-44 clay, gray to a greenish gray, 37'-40' black deposits in clay
- 44-45½ clay, gray & orange some fine sand
- 45½-48 Rock, limestone, white * 46' of 6" casing
- 48-50 clay, gray
- 50-58 Rock, shelly and white
- 58-67 clay, green & sandy
- 67-83 clay, green, very difficult core, hard
- 83-101 clay, green sandy fine sand
- 101-105 sand, hard packed white, some green clay
- 105-135 sandy clay, fine grain, some tightly packed, green sandy clay
- 135-137 Rock, white limestone, (change to rock barrel)
- 137-154 clay, green, sandy rock tan color
- 154-165 Rock, gray, very clayey green to gray, black clay
- 165-191 Rock, limestone, gray color, green clay lenses present
- 191-204 Rock, gray, clayey, white * 198' of 3" casing (change to wireline core)
- 204-252 Rock, gray, clay green & sandy * Static level 130'
- 252-256 Rock, limestone, grayish fine grain
- 256-286 Rock, limestone coarse grain, grayish, fossil shell
- 286-289 clay, gray
- 289-306 Rock, grayish, clay pockets dark gray
- 306-311 clay, gray
- 311-325 Rock, gray & sandy
- 325-350 clay, green; rock section 341'-43'
- 350-375 Rock, gray fine grained, clay pockets in rock
- 375-392 Rock, tan color, fossiliferous
- 392-402 clay, green, very slow core

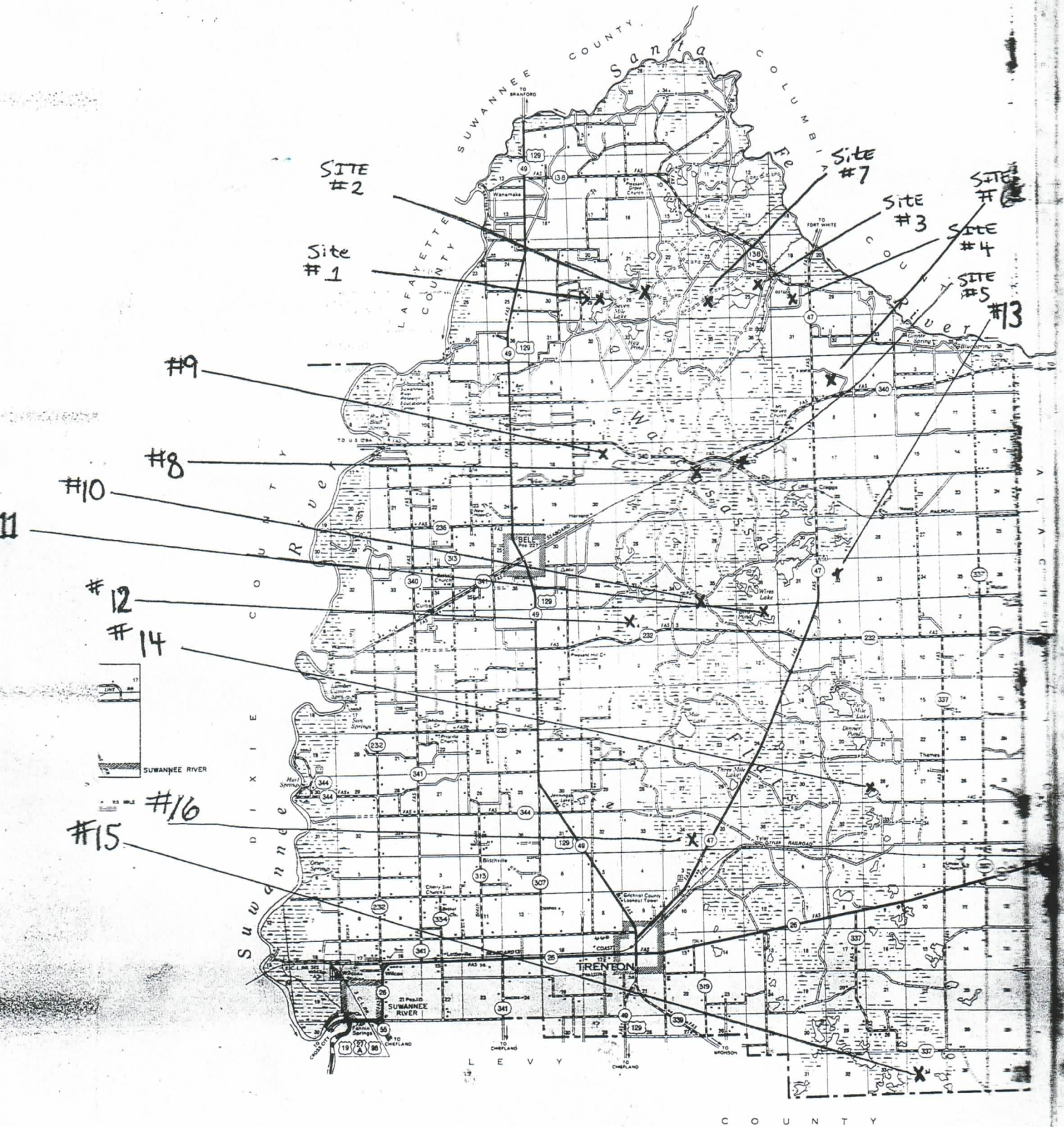
R13E

R14E

R15E

R16E

FGS WACASASSA FLATS Project



C O U N T Y

W 16537

SEC 29, T7S, R15E, SW,

WACCASSA #1 - 1

Gilchrist Co.

- 0-3 SAND, fine grain, gray to white
3-10 SAND, Fine grain, tan
10-33½ SAND, white fine grained
33½-52 SAND, Fine grain, black
52-67 SAND, fine grain, black, clay streaks, gray-green to black
67-90 SAND, Fine grain, black to dark brown (water producing)
clayey streaks 80', 88'
90-98 rock, Limestone, crumbly, gray, clayey
98-101 rock, Limestone, shells, gray, clayey
101-107 CAVITY Loss circulation 101'
107-133 rock, hard core, Fractured limestone, clayey zones common
109-112 CAVITY
133-139 Limestone, tan, dolomitic, hard (Oak 135')
139-148 Limestone tan, Fossiliferous, smooth core

hole was cored continuously, was backfilled
and grouted/abandoned, water Level 14'-2"

W 16537

SEC 29 T7S, R15E, SW/NE

WACCASSA #1 - 2

Gilchrist CO

- 0-27 SAND, Fine grain, white
- 27-40 SAND, white, grayish green clay
- 40-128 SAND, white to brown, Fine grain
- 128-135 clay, green, very little sand
- 135-137 rock, gray Limestone * Loss circulation 137'
- 137-142 Limestone, gray
- 142-148 Limestone, tan, Fossiliferous
- 148-160 Limestone, brown, soft, hard streaks
- 160-165 rock dolomite, hard, brown, black streaks
- 165-167 rock dolomite, dark gray

0-135 cuttings

135-167 core samples

hole was plugged and abandoned

W

SEC 29 T7S R15E, SW/NE

WACCASSA #1 - 3

Gilchrist CO

0-10 SAND, Fine grain, tan to gray

10-30 SAND, Fine grain white

30-40 SAND, Fine, brown, with black clay

4" PVC WELL INSTALLED: 6' of casing
7 $\frac{7}{8}$ " diameter hole 30' of SCREEN
gravel pack with cement plug at top

WACCASSA #1 - 4

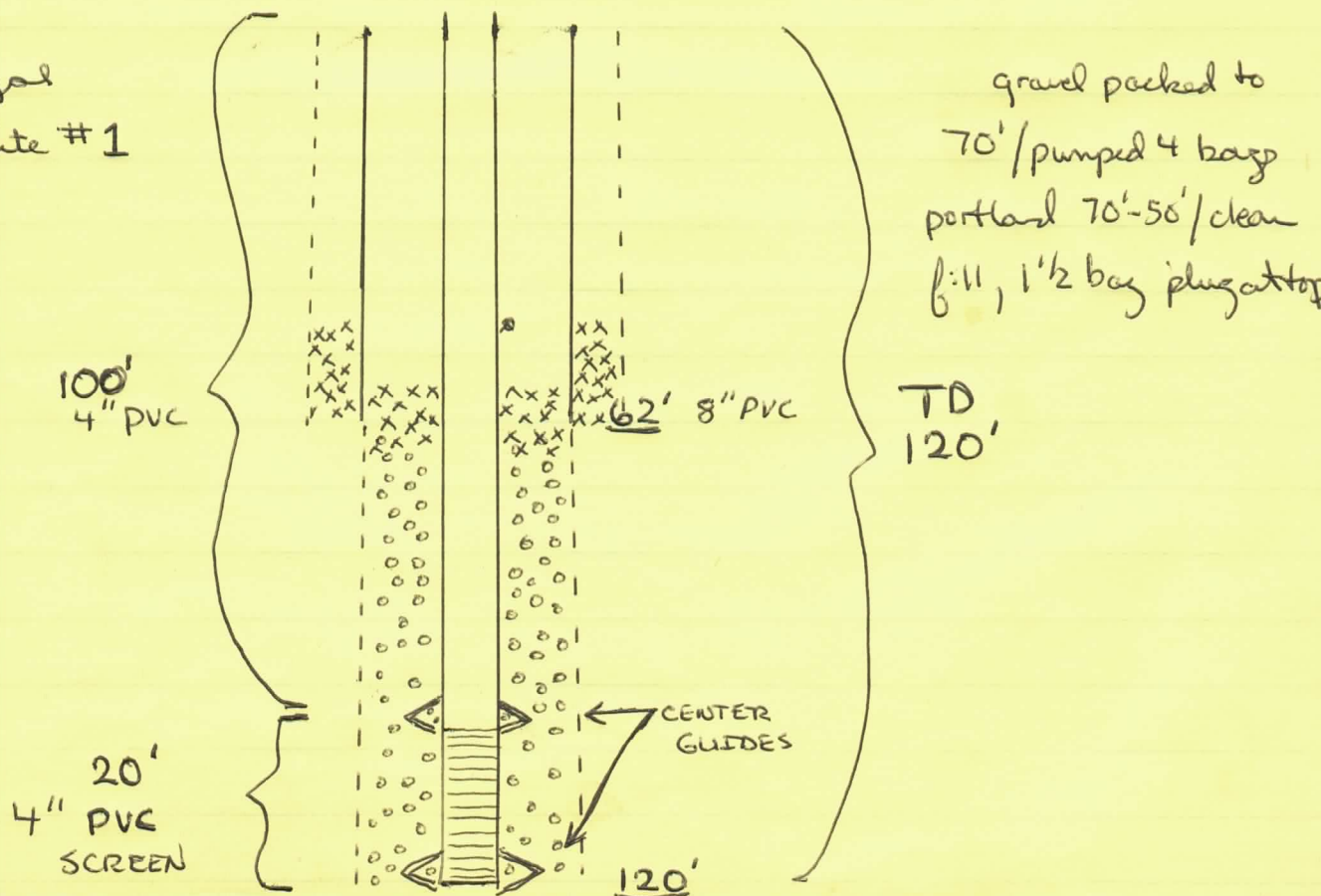
Gilchrist Co

- 0-30 SAND, Fine grained, white
 30-58 SAND, Fine grained, black clay
 58-70 rock, Limestone, dirty white / gray clay 58'
 black clay 50'-60'
 70-79 Limestone, gray
 79-86 clay, black sandy
 86-100 Limestone, cream color, dirty/clay streaks
 100-101 CAVITY Loss circulation 100'
 101-103 Limestone, hard, Fractured rough drilling
 103-110 CAVITY
 110-114 hard drill
 114-130 intermittent hard & soft, probably soft rock ^{on clay}

[62' of 8" PVC installed
 5 bags of cement
 pumped]

hole was reamed with 7 $\frac{7}{8}$ " to 127', screen from
 120'-100', PVC casing from 100'-ground level.

25,000 gal
 water for site #1



W16547

WACCASASSA #2-1

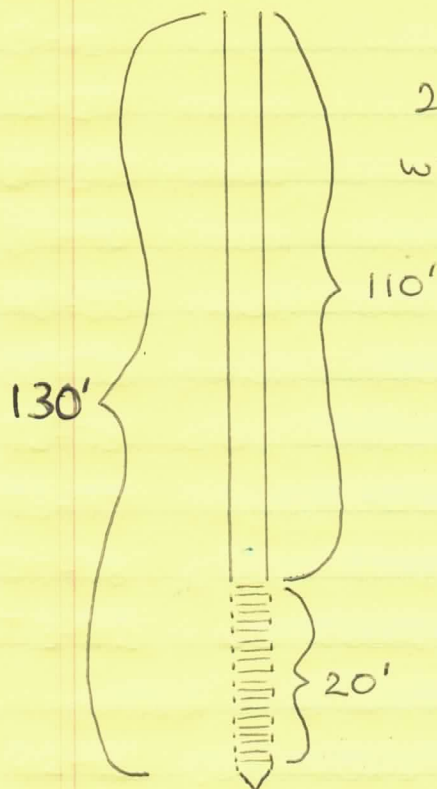
Gilchrist Co

SEC 28 T7S R15E SE/NE

- 0-3 SAND, tan color, fine grain
- 3-12 SAND, white, fine
- 12-27 SAND, black, clayey streaks 17-18 & 24-27
- 27-37 SAND, dark brown, fine grain
- 37-40 SAND, black Fine grain
- 40-55 SAND, brown
- 55-72 SAND, black, brown,
- 72-73 clay, black
- 73-77 SAND, tan
- 77-78 clay black
- 78-92 NO RECOVERY; weight of barrel and drill stem pushed into material 14' (SANDY black clay?)
- 92-95 calcareous hash, gray Lots of Fossils
- 95-104½ Rock, Fragments with black dry clay streaks
- 104½-106 Rock, hard, tan recrystallized, fine grain * Loss Circulation 101
- 106-125 Rock, dark gray and brown, hard & soft layers
- 125-138 rock, white, some very fossiliferous & crumbly
- 138-205 rock, tan, very hard, recrystallized, poor recovery due to breaking up of CORE / change to diamond bit at 138'
- 205-210 rock, tan, hard, more Fossils than above internal streaks of black material in core, phosphate? ^{208' black clay streak}
- 210-238 rock, fine grained, cream color, 214-20 tan color, clay streaks, 213', 235' Static Level 6½'
- 238-247 rock, tan hard, dolomitized, few Fossils
- 247-257 rock, tan to gray, porous, more fossils than above
- 257-270 rock, cream color, fine grain

WACCASASSA #2-1

Gilchmist Co. SEC 28 T7S R15E, SE/NE



2" PVC screen

with natural gravel pack, 1 bag portland for plug at top

110'

20'

WACCASASSA #2-2

WELL #2, 25' south of #1

0-12 SAND, tan

12-56 SAND, black

56-63 clay, gray sandy

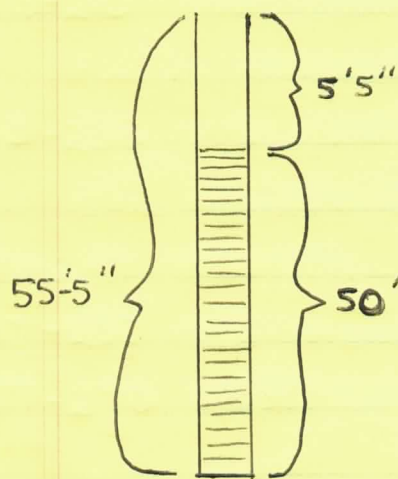
63-70 rock, gray soft, fossiliferous

4" PVC screen, 21 bags sand

1 yard concrete sand

1 bag portland

(3'-3" cutoff / 1'-4" stick up)



5'-5"

55'-5"

50'

W16549

WACCASASSA #3-1

Gilchrist CO Sec 25 T#7S R15E,
NE/NE

0-4 SAND, gray with black streaks

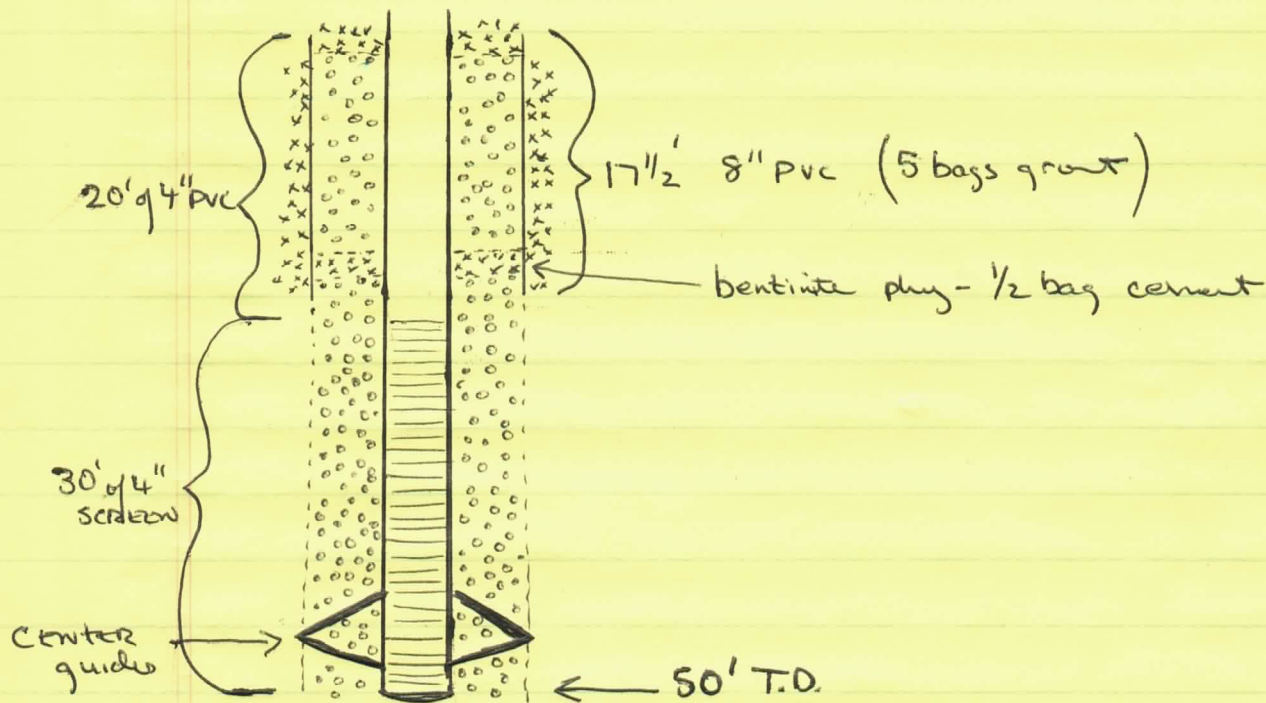
4-15½ SAND, white

SET 17½' of 8" casing (5 bags grout)

15½-38 Rock, Limestone, white Fossiliferous, grainy
SANDY sections 28'-29', 33'-35'

38-51 Rock, Limestone, soft cream color

51-65 Rock, dolomite, hard, no Fossils, breaking up/poor recovery



WACCASASSA #3-2

0-15½ SAND, fine grained, white to gray

bore hole

15½-20 Rock, white limestone, soft

6 ft. west of F-1 hole

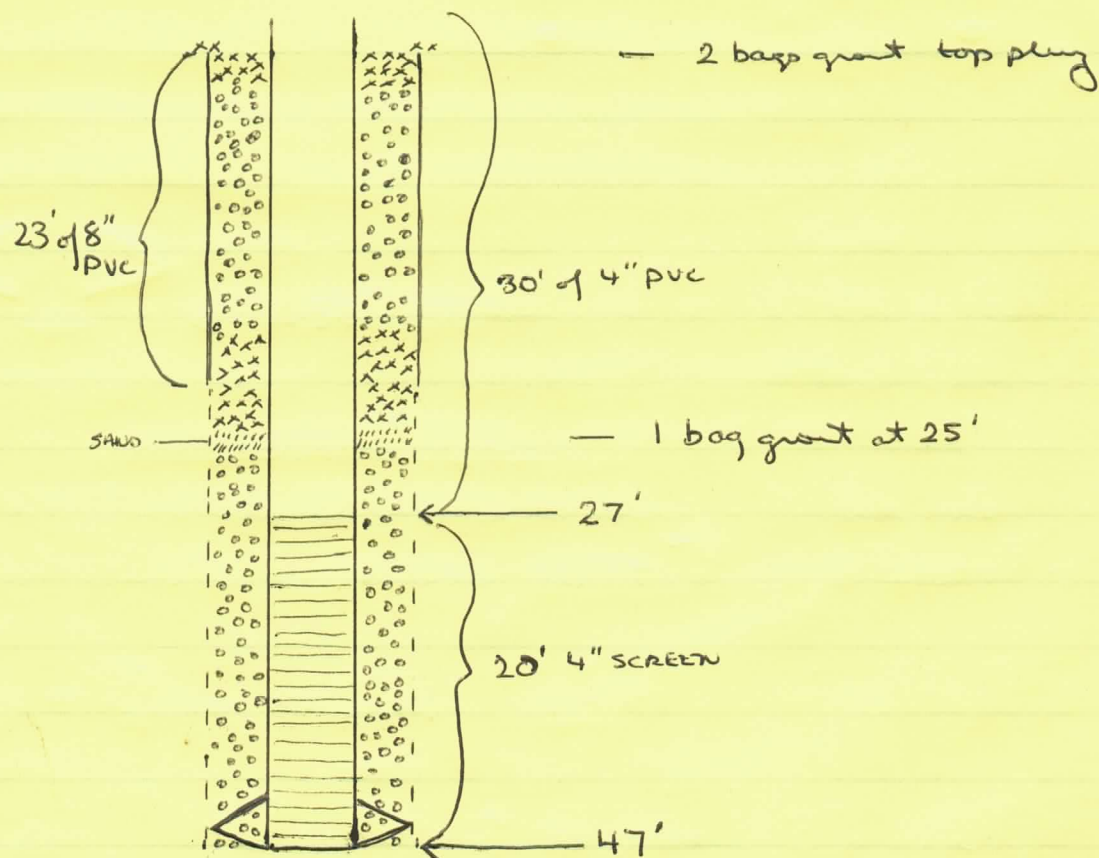
Split spoon samples 6'-8' / 14'-16'

1½ bag grout to plug (3⅞" hole)

W 16550 WACCASASSA #4-1

SEC 30 T#7S R 16E NE/SW

- 0-8 SAND, white, Fine grain
 8-12½ SAND, gray, clayey, gray *SET 23' of 8" PVC
 12½-22 SAND, tan, medium grained, clay streak 20'
 22-48 Rock, Limestone, white, grainy/soft, taking fluid
 gray rock at 30' and 35' *SET 40' of 4" steel
 48-66 Rock, Limestone, gray, soft crumbly, SAND coming
 in hole from 48-53 zone, (gray clay) LOSS circ. 68'
 66-104 Rock, Limestone, gray, poor recovery, (clay in hole?)
 104-111 Rock, limestone, dolomite gray
 110-112 CAVITY
 112-125 Rock dolomite, Hard gray, Limestone a dirty white
 bottom of hole caved 1 bag grout placed at 51'



WACCASASSA #4-2 (10' WEST OF hole -1)

two split spoons samples 9-11' and 19-21'

Formation same as above

- 0-14 SAND, tan color fine grained
14-19 clay, ~~white~~ redish orange, sandy
19-36 SAND, white lite brown 32'-36'
36-44 SAND, brown, some clay * Set 37' of 6" casing
44-48 Limestone, soft crumbly, redish clay 44'-46'
48-73 Limestone, cream color, soft grainular Loss circulation 53'
73-75 rock, dolomite tan color, hard & dense
75-93 rock, broken, soft & hard intervals * Set 72' of 4" casing
dolomitic rock, & limestone cream color, hole
caving From 78' down, SAND/SANDY clay zone?
93-112 rock, Limestone, white / soft Fast core * Set 100' of 3" casing
112-123 CAVITY
123-128 rock dolomite hard, lite gray
128-130 rock, yellowish tan Limestone, soft
130-132 CAVITY
132-138 rock, dolomite, very hard, dark gray to brown
redish black mud 134' probably Fell from 130-32 cavity
138-184 rock, dolomite, brown very hard
184-212 rock, dolomite, lite brown, medium to soft core
212-240 rock, dolomite, very hard, very brown
240-281 rock, limestone, dolomite, tan to cream color
some very thin clay streaks

casings pulled, hole plugged with 12 bags of
portland and 1 1/8 yard of river rock. 11/14/90

W16594

WACCASSASSA #5-3

SEC 13 T8S, R15E NW/SW

0-6 SAND, Fine grain

6-16½ clay, gray

16½-40 Rock, Limestone, soft-white and Fossiliferous

40-106 Rock, gray, soft as above, grainy

106-113 Rock, cream to gray color, SAND streak 110-111

113-116 Rock, brown, soft, fossiliferous * Loss circulation 112'

116-143 Rock, hard dolomite, lite brown, SAND streaks 116-117,

123-125' SAND, 130-132' SAND, 140-142' SAND

143-162 Rock, dolomite brown, softer than above 158'-SAND

162-167 Rock, dolomite hard

26' of 6" casing

plugged hole / 18 bags grout

105' of 4" casing

(116-132 Frank pick for top of Avonpark)

130' of 3" casing

W 16595

WACCASASSA #5-1

SEC 13 T8S, RISE NW/SW

- 0-2 SAND, white, Fine grain
 2-8 SAND, black and dark brown
 8-15 SAND, tan, gray clay
 15-18 clay, gray
 18-38 rock, Limestone, white lots fossils
 38-58 Rock, gray many Fossils
 58-82 Rock, gray very grainy *loss circulation 82'
 82-97 NO RECOVERY, 12 bags grout pumped / plugged

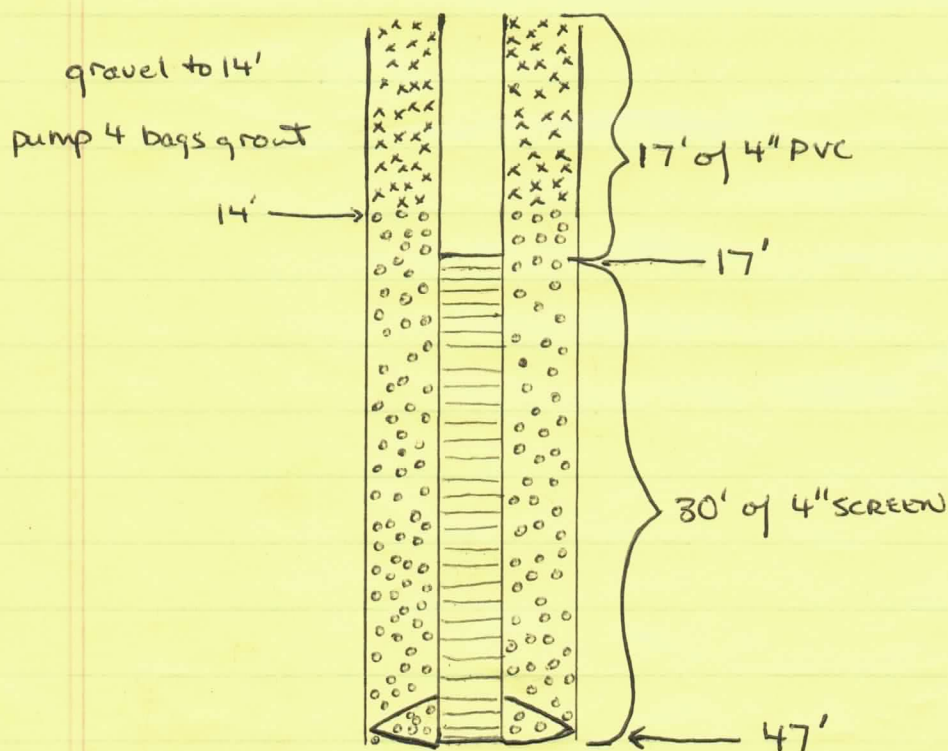
(100 yds SE of 1)

W 16596

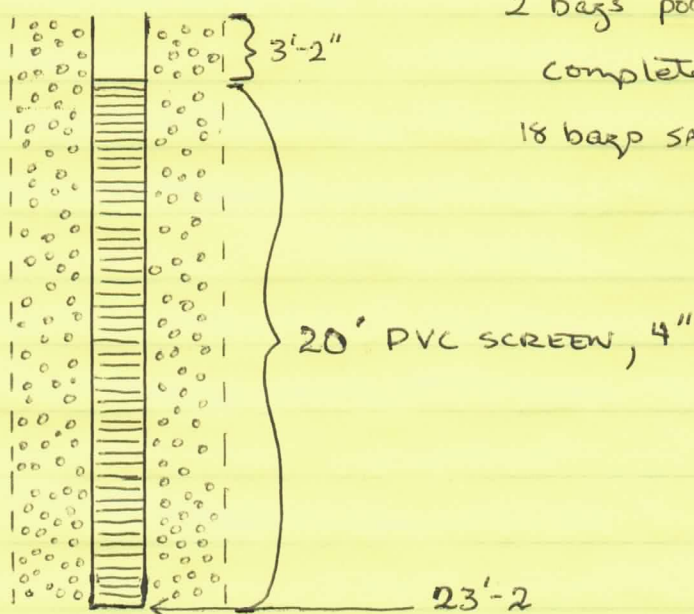
WACCASASSA #5-2

SEC 13 T8S, RISE NW/SW

- 0-6 SAND, white Fine grain
 6-10 SAND, clay, gray
 10-38 Rock, Limestone, white / soft
 38-53 Rock, Limestone, gray
 53-55 Clay, brown
 55-60 Rock, Limestone, gray
- split spoon sample 8'-10'



- 0-4 topsoil, tan sand
4-12 SAND, white, fine grain
12-16 SAND, brown, Fine grain
16-26 SAND, black, Fine grain
26-32 SAND, black, clay black to brown, oily texture
32-42 SAND, black, clayey streak 33'-36' fluid loss at 33'
42-65 rock, Limestone, dirty cream color, soft core
65-68 rock, Limestone, broken, soft+hard spots *set 42' of 4" casing
68-78 clay, rock fragments, tan color, lost core/poor recovery



2 bags portland at top
completed 12/11/90
18 bags sand

- 0-4 top soil, tan SAND
 4-12 SAND, white fine grain
 12-16 SAND, brown, fine grain
 16-26 SAND, black, fine grain
 26-36 SAND + black clay
 36-38 Rock, limestone very soft/crumbly
 38-102 Rock, limestone, soft, cream to gray color, fossiliferous
 102-108 Rock, dolomite, tan to dark gray
 108-113 NO RECOVERY, soft/hard spots
 113-123 Rock, gray fine grain, few fossils
 123-128 NO RECOVERY soft/hard prob. clay + rock fragments
 128-144 clay, sandy lite brown
 144-162 Rock, lite brown dolomite, hard
 162-171 Rock, brown dolo. softer than above, more fossils
 171-200 Rock, fine grained, brown with dark specs
 200-208 Rock, hard + hard lite brown
 208-228 Rock brown to cream color, possible cavity 20' 3" 4"

2 bags portland

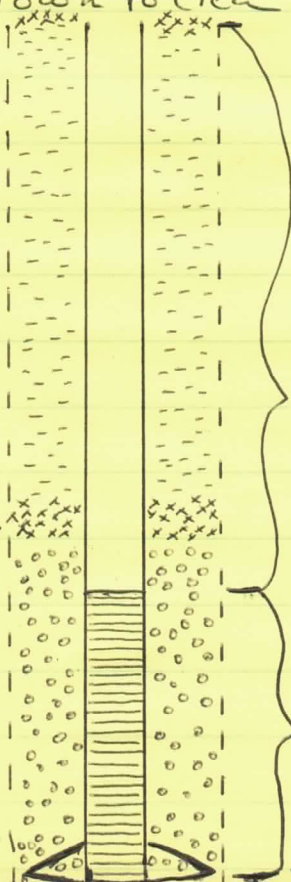
1 1/2 bag bent pellets

completed 12/11/90

44' of 4" PVC

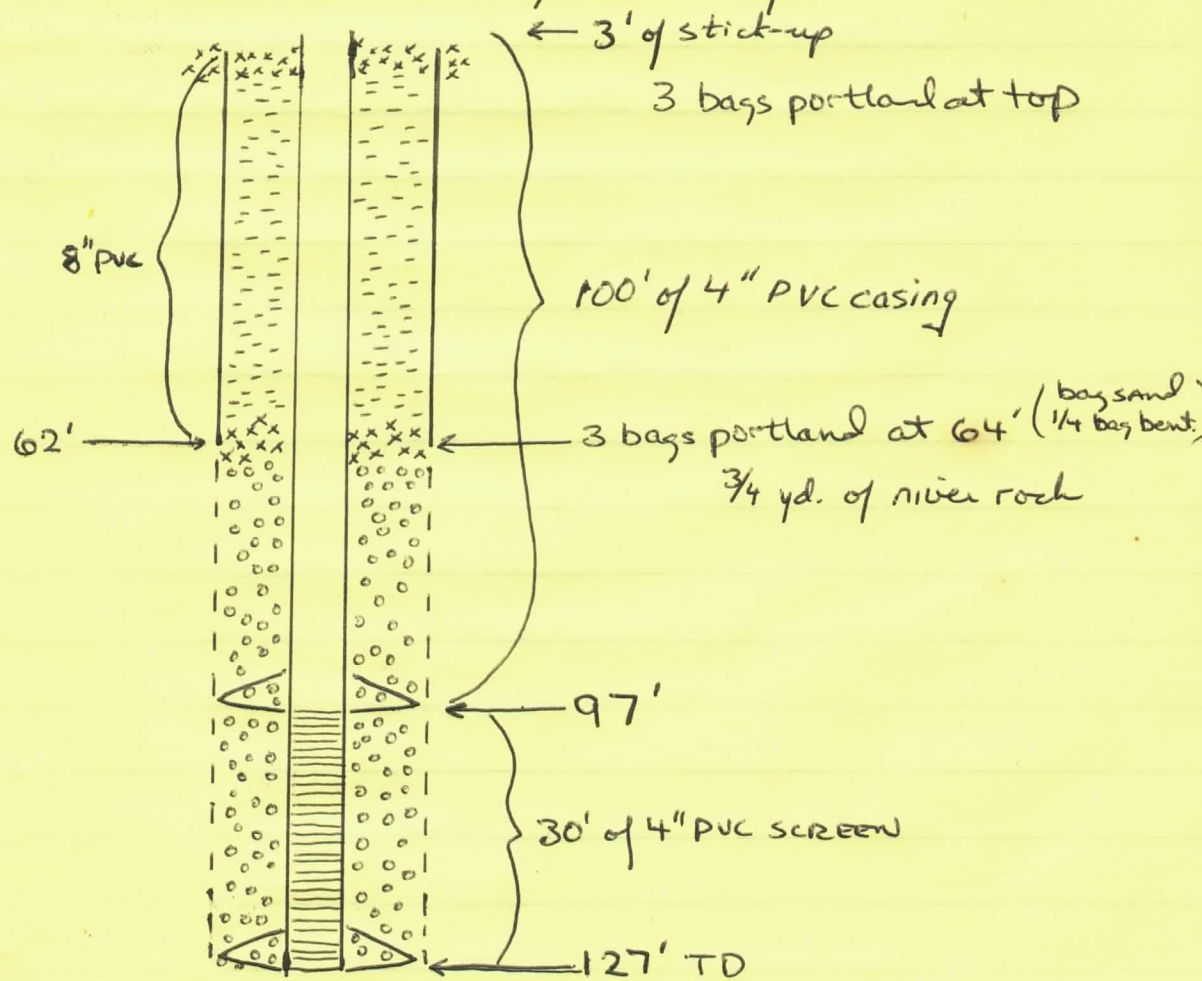
20' of 4" PVC screen

64'



W 16604 WACCASASSA #8-1 SEC 15, T8S, R1E, NE/SE

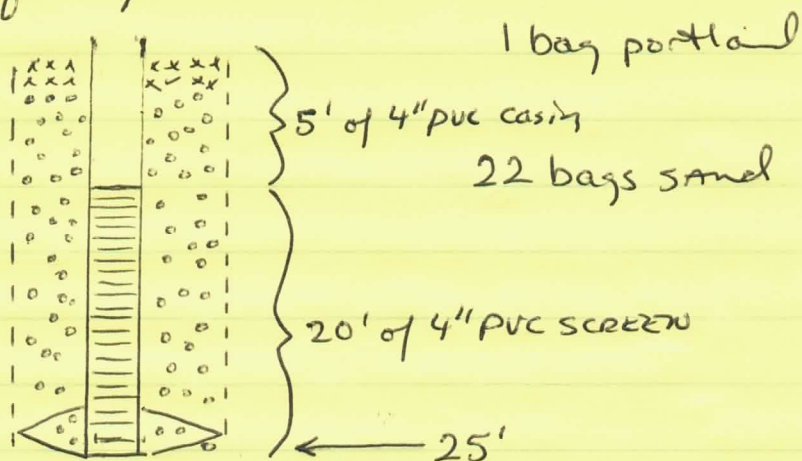
- 0-2 top soil, Fine grain sand
- 2-8 SAND, tan to gray, clay pinkish tint
- 8-26 SAND, white Fine grain
- 26-37 SAND, Fine grain, clayey, (clay streak of 3" at 26')
- 37-41 clay, black, sandy
- 41-48½ SAND, tan color, fine grain, clayey
- 48½-75 Limestone, soft crumbly, gray *60' of 4" casing
- 75-107 Limestone, gray
- 107-124 Limestone, gray, harder than above, few fossils
- 124-125 rock, dolomite, hard, Fossils present
- 125-132 rock, dolomite, hard, no Fossils *Loss circ. at 128'
- 132-155 rock, tan to light brown, very grainy



WACCASASSA #8-2

SEC 15, T8S, R1E, NE/SE

- 0-2 top soil, fine grained
2-8 SAND, tan to gray
8-27 SAND, fine grain, black mud.
27-42 SAND, fine grain



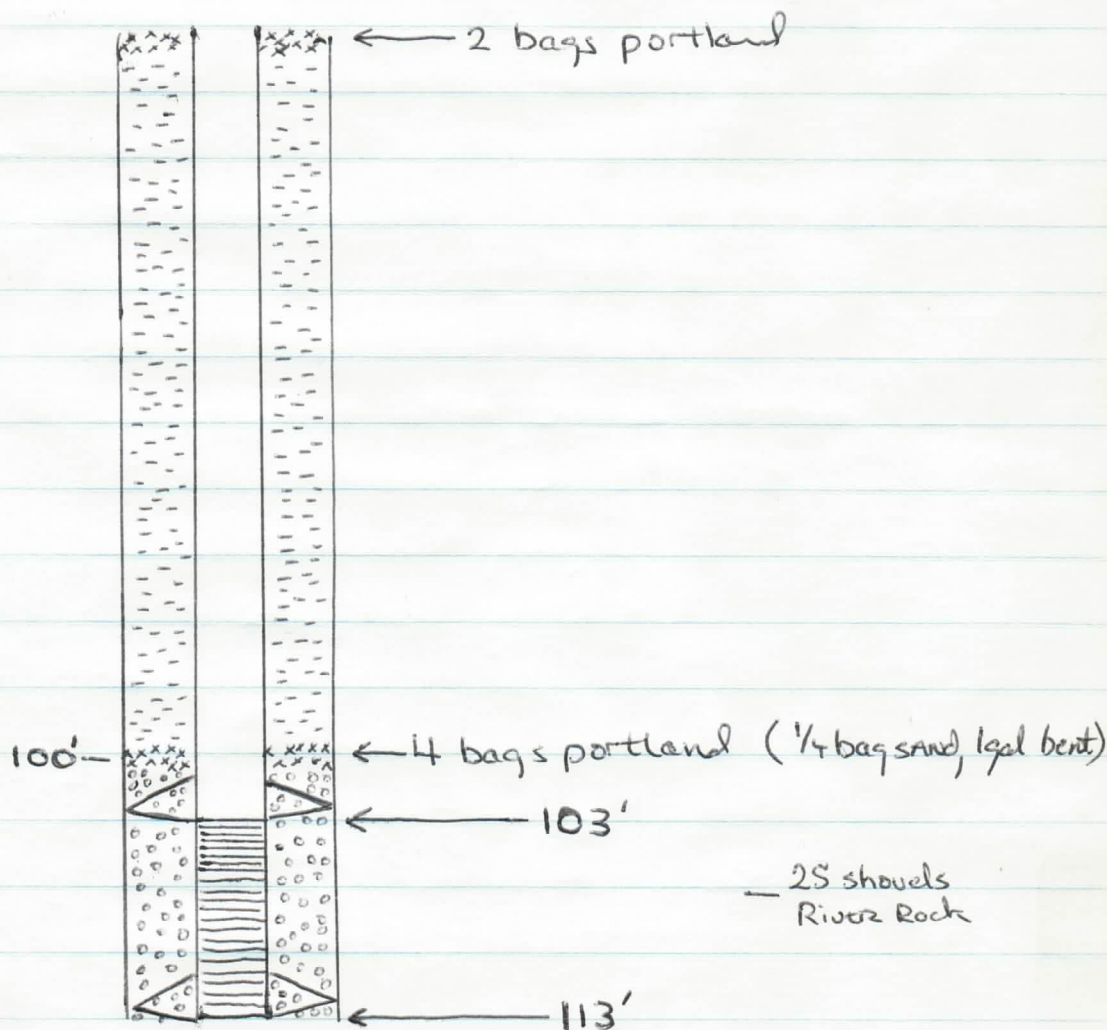
Split Spoon samples 26' and 41'

W16613 WACCASASSA #10-1 SEC35, T8S, R15E, NW/4SW

- 0-4 SAND, gray, fine grain
4-22 SAND, black, fine grain
22-40 SAND, brown & white, fine grain
40-46 clay, gray-green
46-48 SAND, brown, fine grain
48-62 Limestone mud, crumbly soft core
62-82 Limestone, granular, not as soft as above
82-90 clay, black sandy, brown sand
90-92 Limestone hash, grainy
92-98 SAND, brown, clay black
98-121 Rock, Limestone, dirty cream color, grainy, some shell fossils
121-150 Rock, dolomite, light brown, no fossils, grain stone

Loss Circulation 108'

*133 Avon park



completed 1/31/91

WACCA SASSA #10-2

SEC 35, T8S, R15E NW/4SW

0-28 SAND, tan to brown

28-37 clay, white, sandy zones

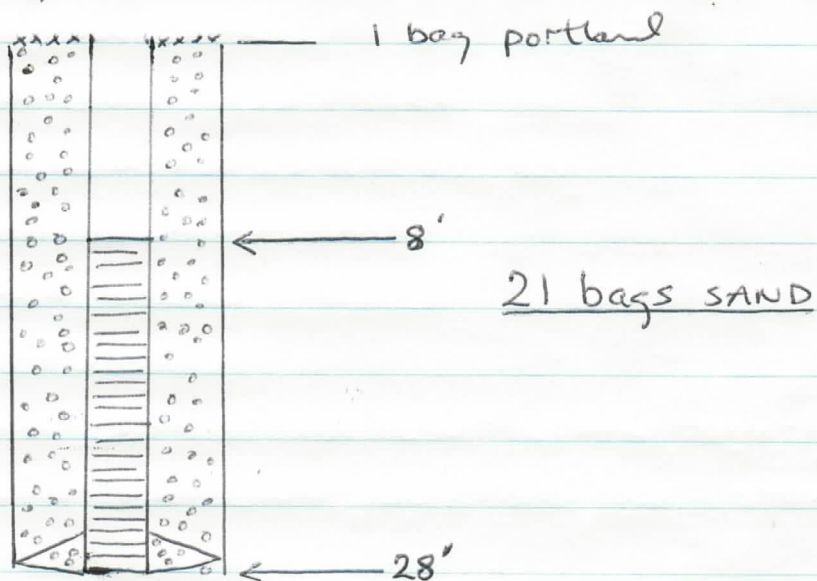
37-47 clay, black, sand tan color

split spoon

samples

35'-37'

45'-47'



completed 2/1/91

W16619

WACCASASSA #9-1

SEC 17, T8S, R1E, NE/NE

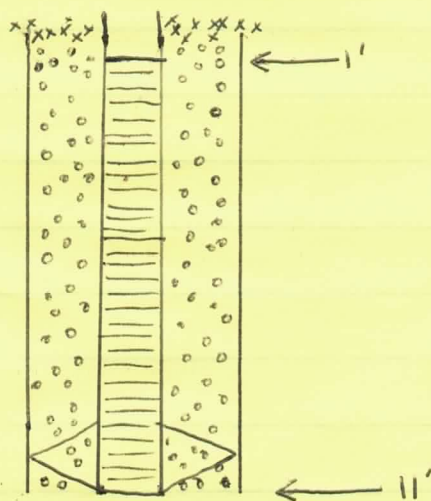
- 0-2 SAND, top soil gray
 2-6 SAND, tan, fine grain
 6-14 SAND, white
 14-18 clay, black, sandy
 18-22 SAND, white, black clay
 22-29 clay, black-sandy * 27' of 6" casing
 29-44 SAND, white turning tan at bottom, fine grain
 44-56 SAND, brown, fine grain, black clay, wood at 46'
 56-66 SAND, white, fine grain, water producing 61'-66'
 66-68 clay, black-sandy
 68-88 Rock, gray graining, limestone * 72' of 4" casing
 88-108 Rock, fragments, limestone and mud intervals: NO RECOVERY tan color mud
 108-132 Rock, light brown crumbly
 132-151 Rock, dolomite hard, brown, rock fragments, black mud

WACCASASSA #9-2

20 ft south of 9-1

- 0-12 SAND, white
 12-14 clay, black

Split spoon sample 12'-14'



2 bags cement top

7 bags sand

completed 1/7/91

W16621 WACCASSA #11-1

SEC 1, T9S, R15E NW, NE

0-2 SAND, topsoil gray
2-14 SAND, tan, fine grain
14-17 SAND, black, fine grain
17-35 SAND, brown to light gray 34-35 black & dry
35-62 SAND, white fine grain
62-86 SAND, tan fine grain
86-150 SAND, tan fine grain, some gray color
150-153 Clay, gray sandy
153-160 SAND, tan to white, fine
160-248 SAND, white fine grained
248-253 Rock, no sample, loss circulation 252

packed sand 50'-75'
90'-99'

Hole plugged & abandoned 2/28/91

Hole was cored to 153', cuttings were taken remaining
100' due to excessive time involved in taking core samples.

W 16622

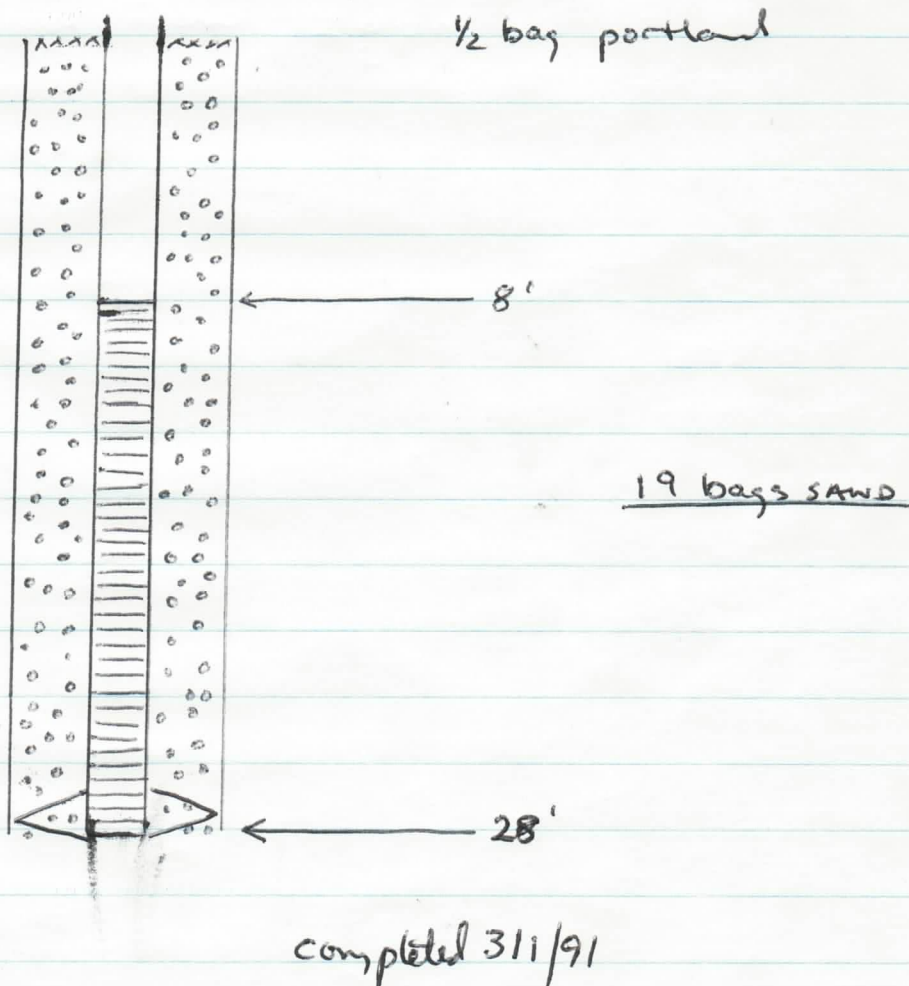
WACCA SASSA # 11-2

SEC 1, T.9S, R.15E, NWNE

Gilchrist Co.

- 0-2 SAND, topsoil gray
- 2-13 SAND, tan, fine grain
- 13-22 SAND, white fine grain
- 22-25 SAND, black, fine grain
- 25-30 SAND, tan
- 30-33 clay tan to gray
- 33-34 Rock, white to yellow crumbly

CORE taken



W/4623

WACCASASSA #11-3

SEC 1, T. 9 S, R. 15 E NW/NE

0-15 SAND
15-23 clay
23-30 Loss circulation, NO sample
30-48 Rock, limestone, white soft

cuttings taken 0-15' 17'-30'

split spoon sample 15'-17'

CORE 30'-48'

Hole caved uncontrollably before casing could be installed.
Pulled rig off site and backfilled hole; 7 yds of Fill

WACCASASSA #11-4

SEC 36, T. 8 S, R. 15 E

0-17 SAND

cuttings taken

17 Loss circulation / NO sample

hole abandoned

Wacca #11-1 is approx. 1050' south of #11-2, 3, 4 and 5

Wacca #11-2, 3, 4 and 5 were 20' apart going south to North

W16624

WACCA #11-5

SEC 1, T9S, R15E NW/NE

- 0-14 SAND, fine grain, white
 14-31 clay, gray, (brown at 31')
 31-97 Rock, limestone, white and crumbly, granular
 97-104 Rock, limestone, gray, soft
 104-116 Rock, limestone, dolomitic streaks, soft grainy, dolomite hard
 116-124 Rock, hard, gray shell fossils
 124-133 Rock, limestone, soft gray/grainy
 133-140 CAVITY
 140-150 Rock, dolomite, brown, hard

31' of 8" PVC, 4 bags portland

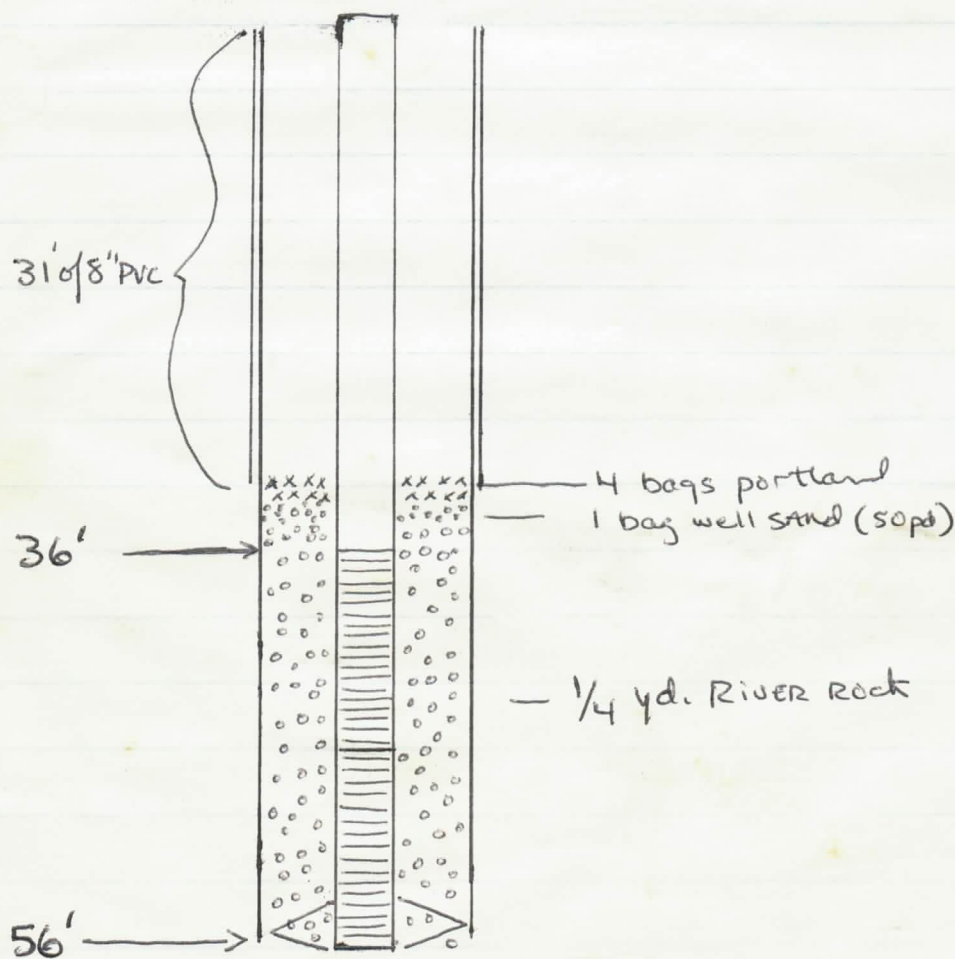
46' of 6" casing 5/20/21

loss circ. at 32

cased: loss circ. at 104

cuttings taken 0-31

CORED 31-150



completed 3/18/91

W16634

WACCASASSA #12-1

SEC 4, T9S, R15E SW/NW

0-2 SAND, gray topsoil

2-8 SAND, white, fine grain

8-13 SAND, brown, fine

13-18 SAND, black, fine grain

18-26 SAND, brown, tan, gray clay

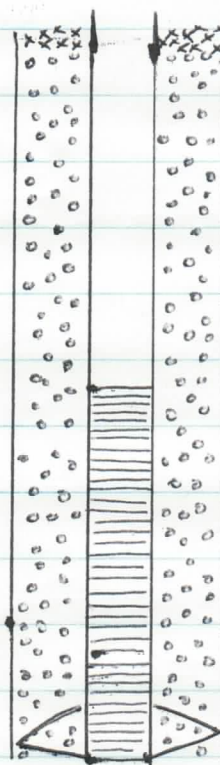
26-28 clay, gray

28-35 limestone, soft, crumbly, white

CORED 0-35'

30'-30-6, black clay = wood

31'-32'- sandy section, brown



13 bags of SAND

1 bag portland

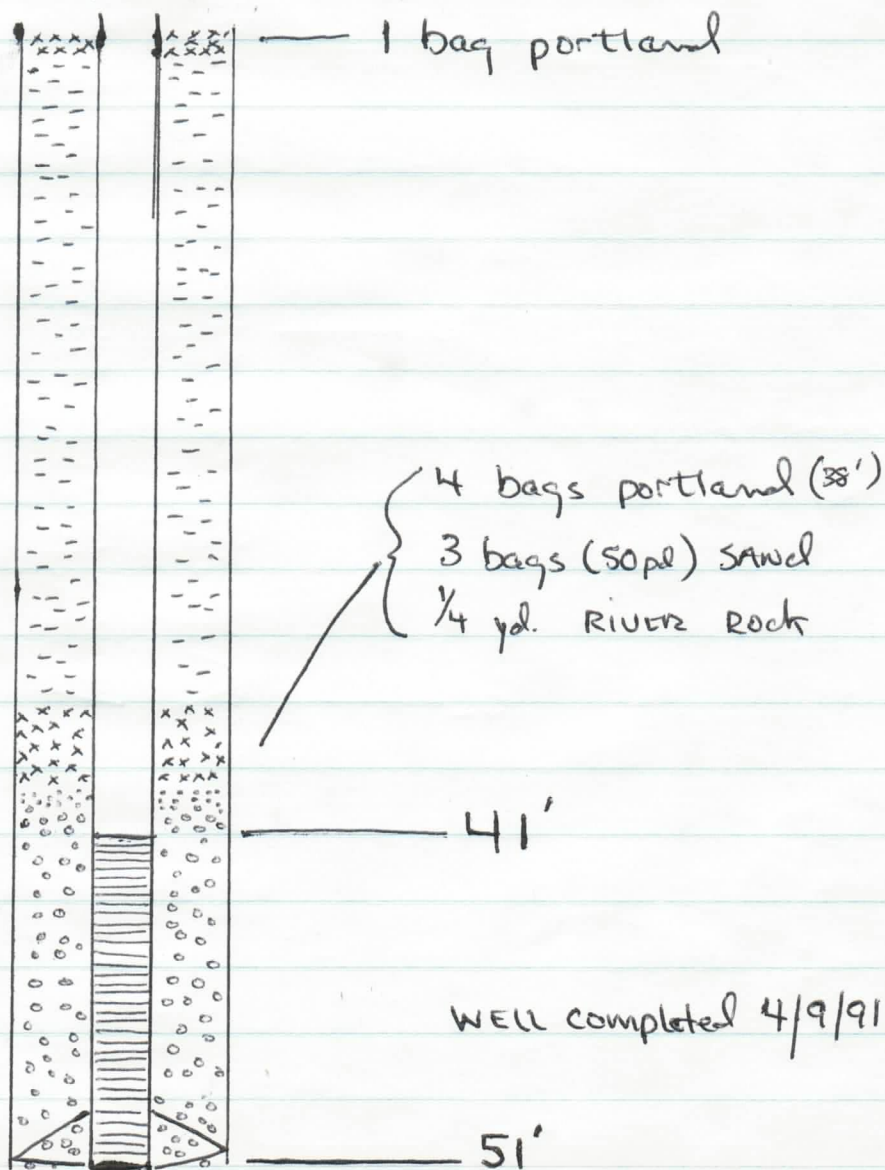
completed 3/27/91

W16635

WACCASASSA #12-2

SEC 4, T9S, R1E, SW/NW

- 0-8 SAND, white fine grain
 8-15 SAND, black, fine grain
 15-20 SAND, brown, clayey, gray
 20-25 clay, gray cutting taken 0-25'
 25-27 clay, gray split spoon sample 25'-27'
 27-44 Rock, Limestone, VERY soft & crumbly CORED 27'-158'
 44-73 Rock, gray, (harder than above) soft
 73-100 Rock, limy clay, rock fragments in soft matrix
 100-132 Rock, limestone, ~~some~~ shell fossils, hard and soft
 132-135 SAND, white, fine grain
 135-158 Rock, dolomite, hard in spots, few fossils, dense ^{lots of} water



W16636

WACCASASSA #13

SEC 32, T8S, R16E, SW/NW

- 0-9 SAND
- 9-11 clay, gray Loss circ. 11'
- 11-77 Rock, Limestone, soft, white, cream color set 25' of 6" casing
or yellow to a light purple color 28-28-6 cavity
- 77-92 Rock, Limestone, yellowish-pink (83' rock barrel used)
- 92-114 Rock, Limestone, cream color, harder than above,
grainy, some shell Fossils
- 114-117 clay, green, very tight
- 117-122 Rock, dolomite, greenish-gray, hard
- 122-138 Rock, dolomite, gray, grainy few Fossils
- 138-143 Rock, dolomite, tan, grainy few fossils
- 143-168 Rock, dolomite, tan fine grain, few fossils

Hole plugged and abandoned 4/23/91

1 1/4 yd SAND, 11 bags portland

W16645

WACCASASSA #14-1

SEC 28 T9S, R16E, NW/SW

- 0-8 topsoil, sand, white, Fine grained
- 8-24 SAND, clayey, brown sand, white clay
- 24-28 clay, sandy, white, rock Fragments
- 28-36 SAND, clayey, white clay rock Fragments
- 36-52 clay, sandy, rock Fragments white
- 52-78 Rock, yellow, soft, sand streaks

CORE samples taken

Supply well constructed 52' of casing, open hole to 78'
hole plugged and abandoned

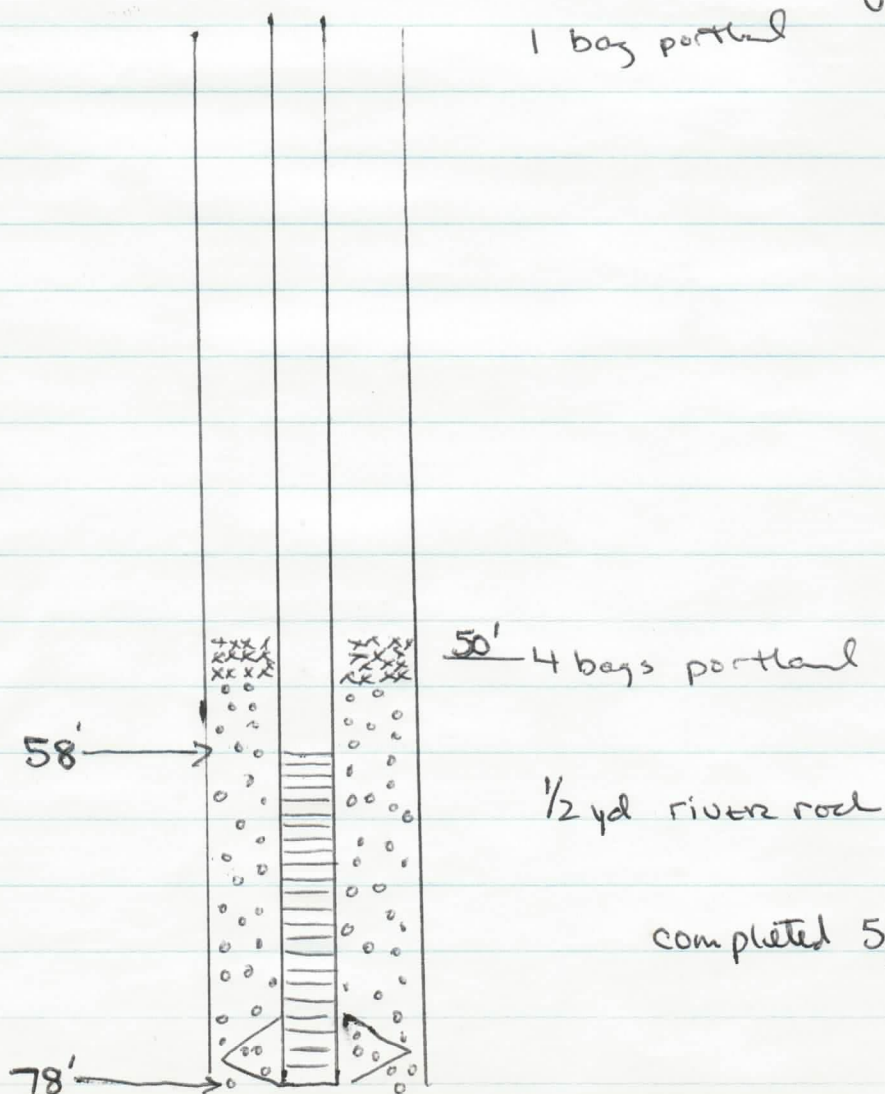
Completed 5/20/91

W16646

WACCASASSA #14-2

SEC 28 T9S, R16E, NW/SW

- 0-9 SAND
- 9-32 clayey sand, white
- 32-34 clay, white
- 34-40 clay, sandy, white
- 40-55 clay, white rock fragments
- 55-69 rock, yellowish, sandy streaks, soft, limestone
- 69-109 rock, cream color, soft limestone
- 109-137 rock, limestone, dirty cream color, some gray, very soft, porous, soft spots throughout probably sand green clay,
- 137-167 rock, limestone, white very grainy
- 167-177 rock, brown, very hard, more dolomitic from 172' down
- split spoon sample 26'-28'
- 38' of 8" PVC
- Cuttop 0-55'
- core 55'-177'
- 88' of 4" casing
- 143' of 3" casing
- loss circ. at 110'



completed 5/20/91

W/6662

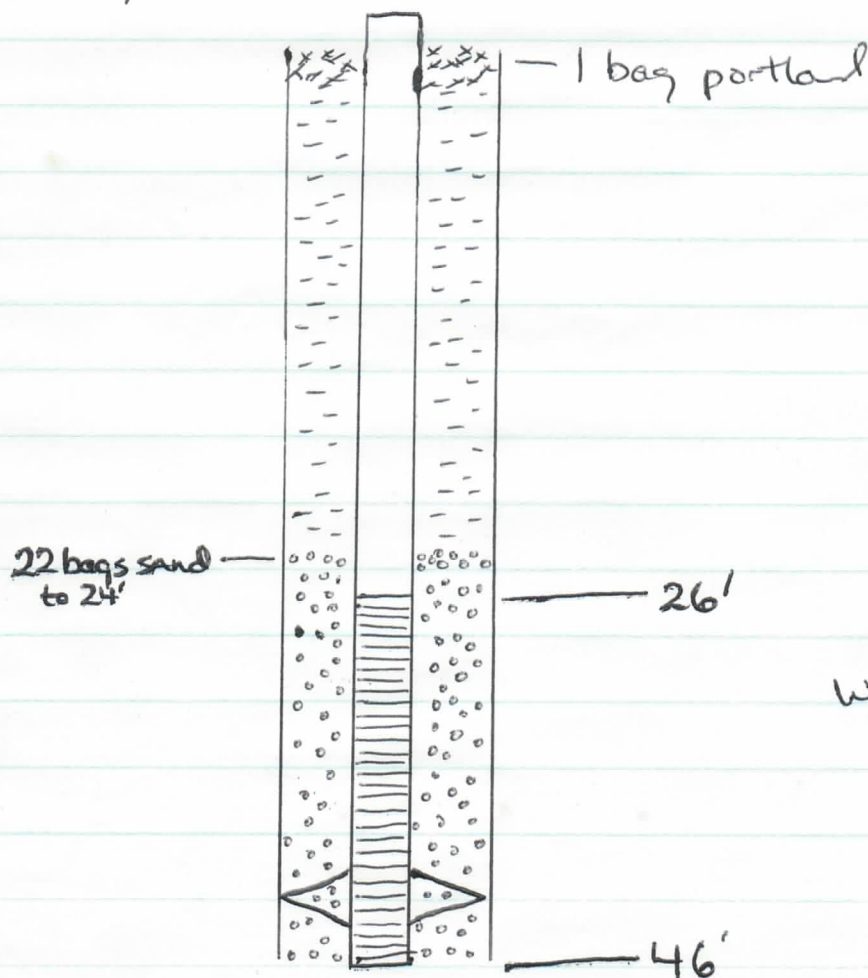
WACCA SASSA #15-2

SEC 34, T10S, R16E

- 0-3 topsoil, sand
3-5 SAND, white
5-11 SAND, black
11-14 SAND, white
14-20 clayey sand, gray
20-39 clayey SAND, gray ; sand 26'-32', 32'-34' clay
39-44 SAND, white
44-46½ clay, green
46½-48 SAND, white
48-54 clay, green & brown
54-58 clay, gray rock fragments
58-60 Rock, yellow limestone, soft
60-70 Rock, clay, sandy streaks
70-78 Rock, soft, white limestone

29° 34.15'

82° 41.53'



Well completed

6/3/91

W16663

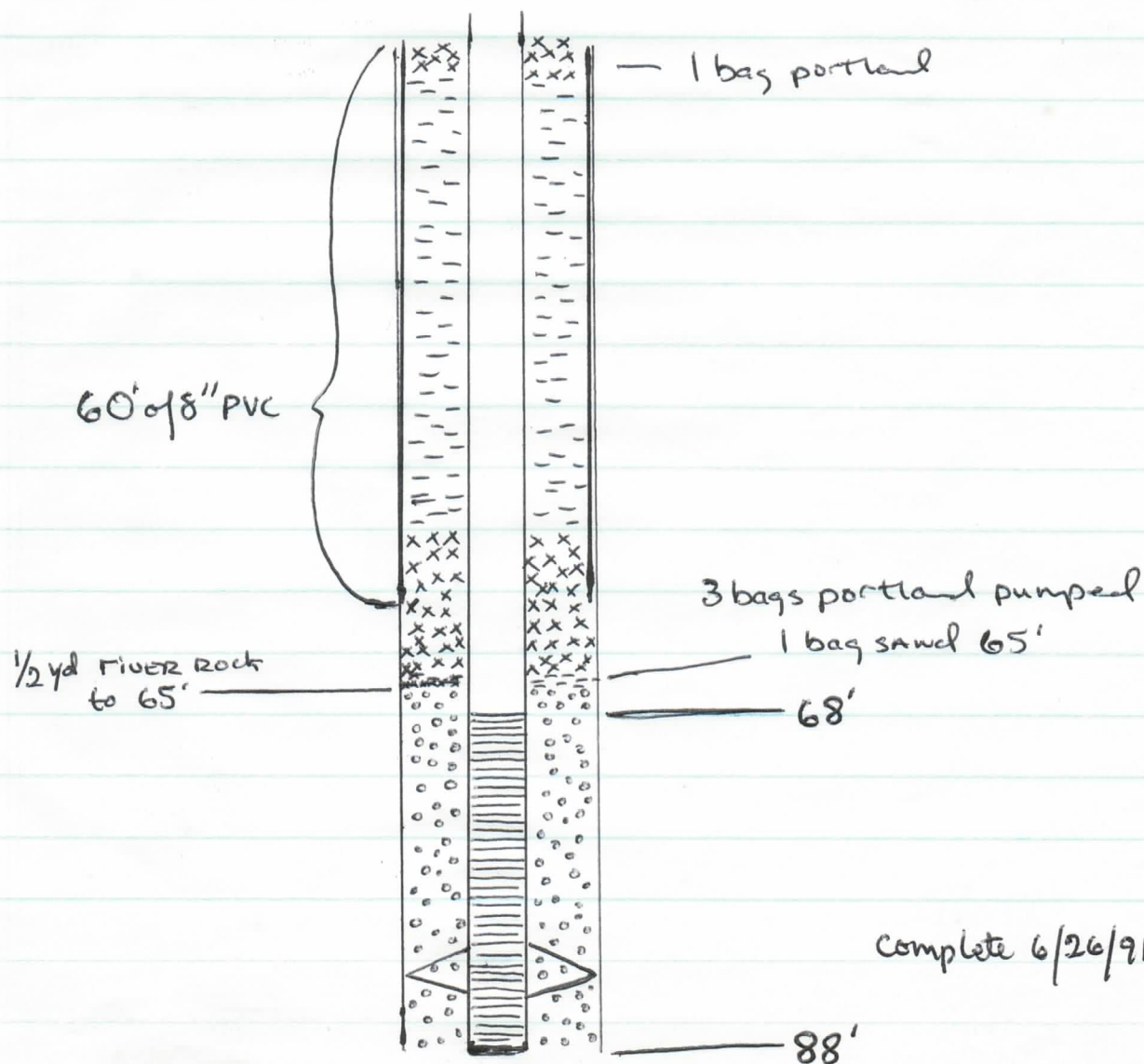
WACCASASSA #15-3

SEC 34, T10S, R16E

Lat. 29°34.15'

Long. 82°41.53'

- 0-22 SAND, white
 22-36 Sandy clay
 36-50 clay
 50-80 Rock, Limestone, yellow/soft
 80-120 Rock, Limestone, yellow grainy
 120-132 Rock, limestone, fine grained, no fossils, loss circ. 90'
 132-139 Rock, fine grain, tan to cream color, soft spots, green clay 139'
 139-145 SAND, medium grain, brown, rock fragments
 145-154 Rock, dolomite, tan, fine grained
 154-161 Rock, dolomite, cream color coarse grained set 150' of 3" casing
 161-172 Rock, dolomite, tan color, fine grained



complete 6/26/91

Gilchrist CO.

LAT. 29°39.29
Long. 82°47.29

W16680

WACCASASSA #16-1

SEC 34, T9S, R15E

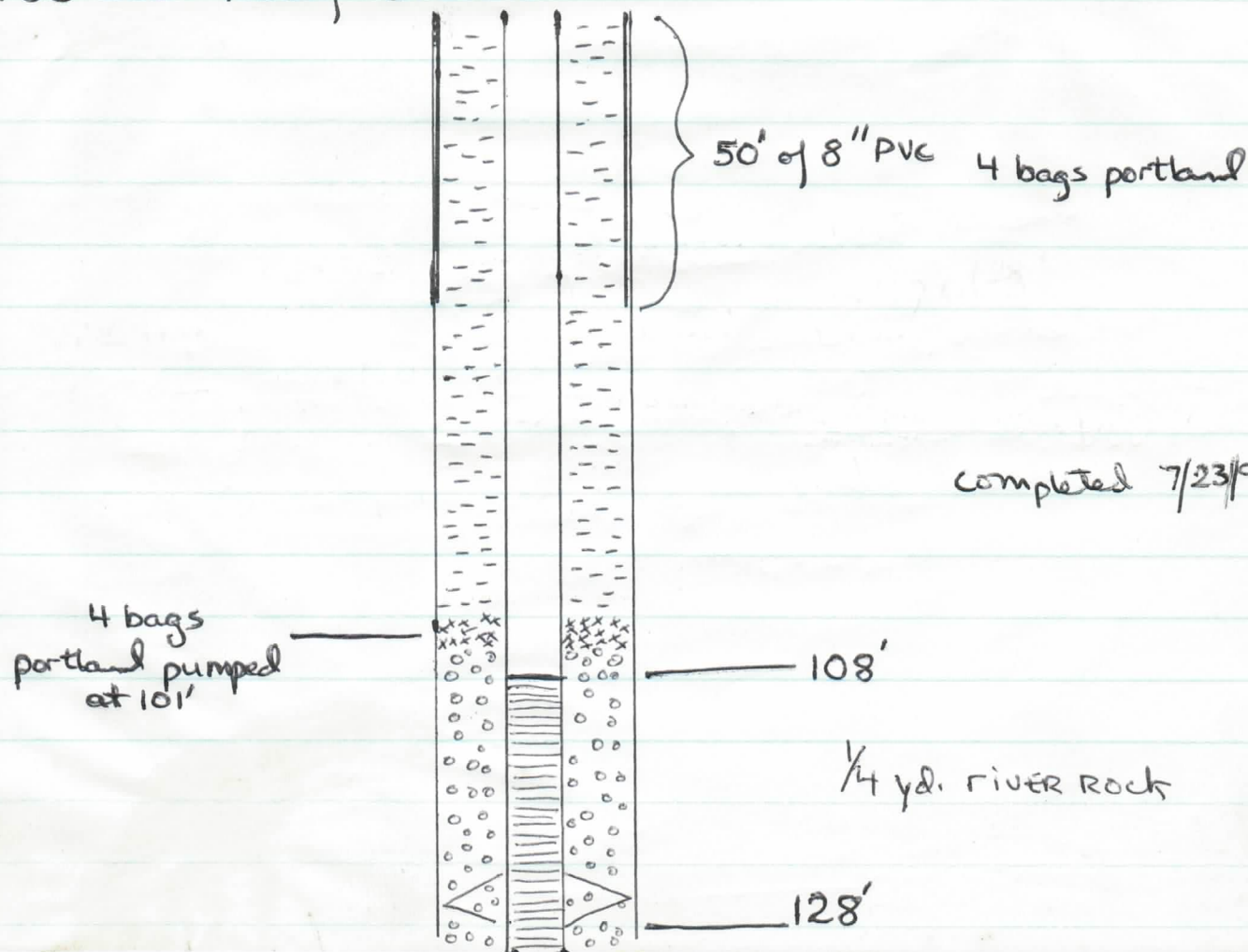
- 0-5 SAND, gray dark brown
- 5-24 SAND, fine grain, gray
- 24-54 SAND, white, brownish 50'-54'
- 54-71 clayey sand, dark gray
- 71-86 sandy clay, gray, rock fragments
- 86-88 clay, lite greenish-blue
- 88-98 SAND, brown med. grain
- 98-103 sandy clay, gray, rock frags.
- 103-120 Rock, limestone, white soft
- 120-140 Rock, limestone, VERY soft
- 140-149 Limestone, calcareous clay
- 149-155 clay, black
- 155-183 SAND, gray, black clay streaks
- 183-200 Rock, brown

*50' of 8" PVC grouted

*71'-73' split spoon sample

*130' of 4" casing

*140' HARD spot



W16681

WACLASASSA #16-2

Gilchrist Co.

SEC 34, T9S, R15E

LAT 29° 39.29

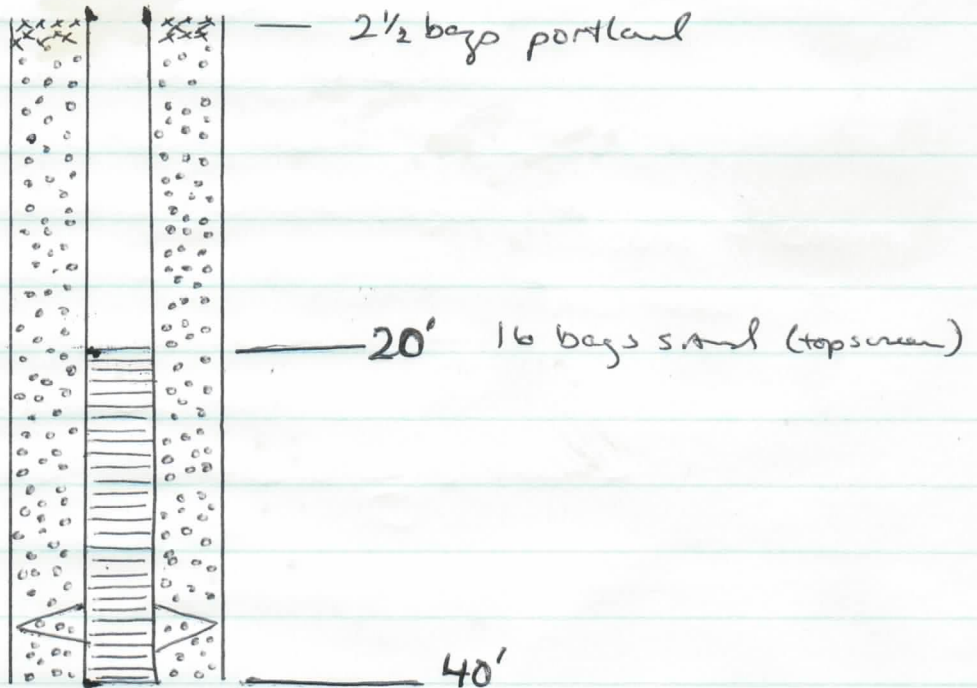
Long 82° 47.29

0-5 sand, tan & brown

5-50 sand, white, fine grain

50-55 clayey sand, white

55-60 clay, white



W16684 WACCASASSA #15-1

SEC. 34, T10S, R16E, NE/SE

0-6 topsoil, sand gray, medium grain

6-25 clayey sand, white, fine grain

25-81 sand, white fine grain

81-101 sand, white, fine grain

0-81' cored

81'-101' cuttings

completed 5/31, hole plugged & abandoned $29^{\circ}34.15'$
 $2^{\circ}41.53'$

W 16329

Hilliard Bros

NW/NW4, Sec 16, T44S, R32E

- 0-3 SAND, fine grain, white
3-8 SAND, fine grain, brown with organics
8-22 SAND, gray clay, shell (8'-9')
22-33 SAND, fine grain, gray clay
33-45 SAND, fine grain, gray clay
45-57 SAND, gray clay with shell, more shell toward bottom, clay becoming lighter color lower; (52'-54' rock frags,
* Set 50' of 6" casing, large washout under 6" casing
57-73 SAND, coarse, phosphate nodules (cuttings, no core recovery)
73-164 SAND, fine grain, green clay { samples probably contain more clay than apparent was forced
164-213 SAND, fine grain, green clay { out due to extreme pressure used to recover sample.
213-224 SAND, coarse, 217'-sandstone
224-235 SAND, clay lenses 224', 230' very coarse SAND, clay 231'-31½
235-251 SAND, coarse to fine, little clay
251-252 SAND, green clay
252-274 SAND, SANDSTONE, gray clay
274-322 SANDSTONE, calcified material (274-83)
* Set 283' of 4" casing, poor seal, necessary to pump 2 bags of grout around bottom
322-386 SANDSTONE & SAND, intermittent hard & soft layers
386-421 clay, green, sandy, 375'-80' large phos. nodules & gravel
* Set 421' of 3" casing; cutting samples from 322'-421' bore hole extremely unstable, sand coming in hole from 300'-306' zone, attempt wireline core but too risky and zero recovery
421-463 Limestone, sandy with shell, white to gray, clay streak
463-494 clay, sandy green; 472'-76' very slow core
494-526 Limestone, cream color, phosphate
526-535 clay, sandy, phosphate, shell
535-540 clay, white, green clay lenses throughout
540-553 clay, green, 544'-46' rock
553-602 Limestone, fine grained, clay lenses, phosphate present throughout 566'-69' clayey black, 573'-76' much phos.
596'-97½' phos. black mud, * Flow at 552'-557' *

W16329

Hilliard Bros. CORE

- 602-628 Limestone, continuous, numerous molds, neocrystallized
605'-07' hardest core yet, 616'-cherty fragments
- 628-638 Limestone, gray very Fossiliferous, 629'-32' loose
clay or very soft crumbly rock, *622'-27' MORE FLOW
- 638-661 Limestone, clayey layers, Fine grain, Fossil molds
- 661-670 Limestone, gray Fine grain
- 670-686 Limestone, gray to tan, Few Fossils Fine grain
Very SANDY Flow From 674' zone
- 686-692 clay, gray SANDY
- 692-698 Limestone, gray Fine grained
- 698-713 SANDSTONE
- 713-722 clay, gray & SANDY
- 722-733 SANDSTONE
- 733-734 phosphate rubble zone, some gray clay
- 734-737 Limestone, hard tan Fine grain
- 737-740 Clay, green, tight - TD - Flow approx. 150 gpm

W 16387

U.S. Sugar

NE/NE4, SEC 9, T44S, R32E

- 0-6 organics, rock fragments, sand + shell; spoil
 6-8 black mud, rock + shell fragments
 8-16 rock, gray + orange limestone band, sand layers
 16-25 shell bed
 25-64 gray coarse sand
 64-77 sand, gray coarse grain
 77-83 sand, gray coarse, rock lenses sandstone
 83-87 1/2 coarse sand, rock more prevalent sandstone
 87 1/2-97 sand coarse, gray
 97-100 rock tan & ~~dirty~~ cream color
 100-102 rock, clayey zone, white clay, some shell
 102-108 sand coarse some rock, ~~some shell~~ SET 122' 4" casing
 108-113 sand, calcareous material
 113-143 limestone, white, shell fossils LOOSE sand 157-172
 143-192 sand fine grain, gray, clay LOOSE - 172-177
 192-208 sand, fine grain, more gray clay than about 92-208 Clayey sand gr
 208-257 ~~Dolomite~~ Dolosilt, green clay 208-212 Dolosilt becom
 257-281 green clay, sandy fine good recovery more clayey
 281-287 sandstone + some shell poor rec. 212-2 clay green
 287-322 green clay + sandy
 322-344 very sandy green clay, 322-42 hard spots 252-258 soft core
 344-352 sandy green clay (359 gypsiferous) 258-31 sandy clay
 352-403 clay green, turning gray toward bottom 31 - rock hard sandstone
 403-432 rock white 403 rock bands 281-287 NO recovery
 432-447 clay green moderate core
 447-490 rock, shell soft clay band 287-92 - fast core speed 3' / stop
 490-494 green clay D.F. cult core hard sandstone
 494-498 rock lenses + packed sand, neither
 498-534 clay green band functional
 534-562 rock, phos. white 301-322 good recovery, sandy clay
 562-571 rock white fine grain 322-342 hard spots loss of core
 342-352 sandy clay
 571-579- rock soft 352-62 clayey tight core
 579-583- clay green 362-402 very hard core clay gray
 Flow 592

W16387

- 583-593 - rock, phosphate, fine grain white
593-603 clay, green
603-624 rock, clay, some shell, phosphate
624-638 - rock white phosphate
638-642 - clay gray to black
642-645 rock gray hard
645-662 - rock white fossiliferous, clayey

Siliceous
slight

W 16387

WELL PERMIT NO. _____

U.S. Sugar Corp.

Clewiston

Owner
John A. Monell
(Contractor's Signature)

Address

2589

7/20/89

City

State

33440

Zip

(Contractor's Signature)

License No

Completion Date

386'

Casing Depth

662

Total Depth

Well #

Driller's Name _____

Registration No.

TYPE OF WORK: Construct () Repair () Abandon ()

WELL USE: Domestic Well () Public () Monitor () Test ()

Irrigation () Fire Well () Other CORE SAMPLES

METHOD: Rotary with MUD (✓) or Air (), Cable Tool (), Jet ()

Casing Driven (), Other

STATIC WATER LEVEL _____ Ft. below top of casing $\rightarrow$ ground level

PUMPING WATER LEVEL _____ Ft. after _____ Hrs. at _____ GPM

PUMP SIZE _____ H.P. CAPACITY _____ GPM

PUMP TYPE _____ INTAKE DEPTH _____
From top of ground

LOCATION

Located Near 7 miles south
of Clewiston

County Hendry Co

NE NE 9 44S R32E
 $\frac{1}{4}$ $\frac{1}{4}$ Section Township Range

Latitude-Longitude

Cuttings sent to District? () Yes
(~~)~~ No

Note: PWS Wells attach a site map if well location is different from site location on permit application.

LOCATE IN SECTION

			x
		9	

Grout	Casing & Screen	Depth (ft)		DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes Give color, grain size, and type of material Note cavities, depth to producing zones.
Thick- ness & Depth	Diameter & Depth	From	To	
				BORE hole was Logged, temporary casing, removed and hole grouted on 7/20/59 J. H. Mow
Number of bags				

Casing: Black Steel () Galv. () PVC () Fiberglass ()

Screen: Type _____ Slot size _____

Screened from _____ (ft.) to _____ (ft.)

Type of grout with % additives _____

Water: Clear () Colored () Sulphur () Salty () Iron ()

Conductivity _____ Chlorides _____ mg/l

W 16144

(LEE County)

3/26/88

CARTER CORE

NW, SE

S 27, T 43s, R 26E

- 0-1 top soil
- 1-2 Limestone, brown, sandy
- 2-4 Limestone, brown, yellow, clay red, trace of shell
- 4-16 clay, white, with intermixing of shell & limestone fragments, clay turning more gray with brownish sand
- 16-17 clay, gray
- 17-27 clay, white, grayish with rock and shell
- 27-31 clay, gray, black organic silt, lots of shells, bone?
- 31-35 dolosilt, olive gray

* took water sample; producing
zone 2'-5' ; some possibly from 23'-28' zone

W16147

Cox #1 ~~CORE~~ LEE County Alva

4/88

NE, SW S26, T43S, R27

- 0-4 topsoil
- 4-14 Limestone, white with yellow tint, white calcareous mud, shell, more common 9' down
- 14-22 clay, gray calcareous, some shell
- 22-60 dolosilt, greenish gray, some shell and phosphate ^(36')
- 60-65 clay, green, coarse SAND, phosphate
- 65-70 Limestone, coarse SAND cemented, small amount of sand size phosphate, green clay, more sandy ^{toward} ~~toward~~ bottom

1st/ WATER SAMPLE:

water level, 5', 0-20' interval

2nd/ WATER SAMPLE:

water level, ground surface, 30'-70' interval

W/6148 core

COX #2

LEE County ALGA 4/88

S 26, T 43, R

- 0-4 topsoil
4-17 Limestone, yellowish orange, clam mold, shells
white calcareous clay
17-22 clay, gray
22-53 Dolosilt, greenish gray, scattered shell, some phosphate
53-67 clay, green
67-73 SANDY, clay, shell, in small amounts
73-83 SAND, coarse, phosphate

1st water sample:

water level 7', 0-17' interval

2nd water sample:

water level 10', 70'-80' interval

6/88

W16179

AUSTIN

LEE County (ALWA)

S27, T43, R27E

0-2 topsoil

2-6 SAND, white fine grain, clay, gray

6-12 clay, calcareous with rock & shell fragments

12-28 clay, gray, streaks of brown organic sand 14'-16',
16' rock fragments, 23½'-25' rock fragments

28-47 Dolosilt, 44.5 and below becoming more sandy
with phosphate, 46.5 rock frags common

47-48 SANDSTONE

48-58 SAND, coarse grained, white shell, some clay

1st WATER SAMPLE:

Water Level: 6', 0-32' interval, *very little water present

2nd WATER SAMPLE:

Water Level: ground level, 45'-58' interval

Long 82° 11' 29" 2' elev
Lat 26° 31' 29"

South Seas PLANTATION

W 16242

Captiva Island

- 0-3 disturbed topsoil, sand & shell
3-8 shell
8-24 clay, grayish green, silty sand, shell
24-30 sand, fine grain, large shell
30-37 1/2 clay, gray sandy, limestone frags 31' shell, * Set 37' of 8'
37 1/2-68 Limestone, white to gray, hard
68-78 Limestone & shell, soft
78-83 Limestone, hard, black with shell embedded
83-98 clay, green, with shell
98-117 clay, sandy with shell & rock fragments
117-136 clay, gray, sandy & shell
136-140 clayey sand, gray
140-148 clay & shell
148-161 clay, calcareous, rock frags & shell
161-167 clay, white, rock frags.
167-179 clayey sand, green
179-189 clay * Set 185' of 4" casing
189-190 sand, coarse, clay
190-204 dolosilt, sandy
204-287 dolosilt, good recovery
287-297 clay, sandy, phosphatic
297-306 clay, sandy, rock frags. 300'-306' WATER LEVEL drop from 4' to 6' on 306'-311'
306-308 clay, green
308-330 clay, green to gray, becoming more sandy from 325'-down
330-342 Limestone, gray, sandy with black specs
342-344 clay, sandy & phosphatic, ^{loss} 345'-347' fast cone, sand?
344-350 Limestone, gray, clay streaks
350-361 sand, phosphate grains, some shell * SAND FROM 350'-365' caving in hole
361-365 sand, clay, grayish, phosphate, limestone
365-372 clay, gray, phosphate & sand
372-385 clay, gray to white, interm. rock
385-400 Limestone, soft, gray to white
400-428 Limestone, cream color * Set 403' of 3" casing
428-430 Dolomite, hard * hardest core in hole *

W 16242

- 430-433 Limestone, gray, soft
433-440 clay, green
440-444 dolomite, tan
444-459 SANDY Limestone, clay, phosphate * Flow begins
459-468 dolomite, tan, lots fossils 10 gpm
468-471 clay, gray
471-522 dolomite, clay pockets 482'-484', SAND 522'
522-532 dolomite, cream color, phosphate * Flow 20 g
532-541 Limestone, clayey, tan to cream, phosphate pockets
541-589 dolomite + Limestone, tan to cream color, phos. pockets
589-599 clay, white, Limestone from 589'-93', dolomite, fine grain
599-635 Limestone, white, Fossiliferous
635-643 Limestone, white fine grain, no fossils
643-656 clay streaks, greenish-gray, fine grain dolomite
656-682 clay 656'-657', Limestone + dolomite, tan to white
682-760 Limestone, with clay pockets, tan to cream color,
coarse grained, more Fossiliferous 742'-760'
* Flow approx 35 gpm

- 0-14 SAND, white, fine grain, 0-6 organics, clayey streak at 14'
- 14-19 rock, yellowish, gray, Fragmented
- 19-30 clay, white, rock fragments
- 30-58 clay, gray sandy, phosphatic sand * SET 50' of 6" casing
- 58-96 clay, green
- 96-98 clay, green, rock fragments
- 98-107 clay, gray sandy, rock fragments, large oyster shells
- 107-132 SAND, medium grain, gray clay, (no recovery 122-27), From
127-129 phosphate nodules, shell, broken rock
- 132-135 clay, lite green
- 135-150 clay, gray broken rock lots of phosphate
- 150-183 clay, green, 150-64 tight clay, 166'-83' sandy, phosphate
- 183-238 rock, white-lite gray, shelly, phosphatic sand. * SET 200' of 4" cas
Loss circ at 260'
- 238-260 rock, limestone, white, shells, phosphate, crumbly
- 260-292 rock, limestone, some shell, grayish
- 292-309 rock, limestone, grainy, clayey, gray-green, few Fossils
- 309-330 rock, cream color, few Fossils, 322-30' large shells + phos.
- 330-342 clay, green tight * 331' face discharge bit
- 342-353 clay, shell embedded, grayish green
- 353-386 rock, clayey, cream color
- 386-400 rock, (no clay) Fossiliferous, white
- 400-444 rock, limestone, clayey, shell, white (411-13' hard)
- 444-463 clay, fine silty sand, phosphate, lime shell
- 463-469 clay, green
- 469-474 rock, tan, phos. nodules, Fossiliferous * * 10gpm
472 Flow
- 474-506 rock, clayey, white
- 506-525 rock, clayey
- 525-536 rock, limestone, clayey, gray small broken shell,
phosphate chips, 534'-36' broken rock lots phosphate, * Flow Increase
- 536-545 rock, limestone, VERY fine grain, (slow core) clay, green
- 545-575 rock, limestone, cream color, Fossiliferous, phos. clayey zones
580'
- 575-585 rock, limestone, white fine grained * Flow 35gpm
- 585-602 rock, limestone, white Fossiliferous soft core
- 602-606 rock, limestone, fine grained hard * Flow 50gpm
610'
- 606-671 rock, limestone, cream color, Fossiliferous, Lots
of shell + snail; Cavity 630'-631 1/2 * Flow 90gpm
631'

- 671-725 rock, limestone, cream color, Fossiliferous, clayey zone
725-729 clay, green
729-743 rock, limestone, Fine grained slow core, shark's
tooth 731', 732' hardest core in hole, some phos. grains
743-798 rock, crumbly, soft, clayey white 790'-Sawance
798-822 rock, Limestone, granular, cream to white color

W16737

LEON Ambient / shallow #1
(Lake Jamonia)

SEL 23/NW/NWT3N, R1E

7/10 mile from Sta. 12

LAT. N 30° 39.25'

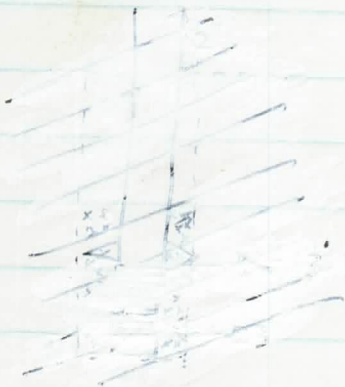
Lon W 084° 12.65'

- 0-4 SAND, brown, fine grain
- 4-12 clay, red, grayish mottled, sandy top, clayey lower
- 12-15 clay, red, & gray, white chalky flakes, rock chips 13'
- 15-23 SAND, fine grain, red clay, 16' rock streak, white
- 23-34 clay tan color, fine sand
- 34-35 clay, white

Water level 17' (11/20 with 30' borehole)

15-23 producing zone

Water level 23' 11/21 35' hole



1-6 bit 7 7/8

20

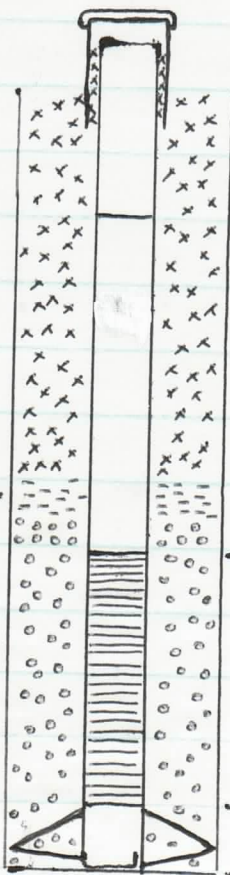
21-6

3-6 Kelly

25-0

5 bags
portland

bentonite plug -
10-12'



weel chain to 6" apart

NEED 2x6's

cement

7 bags sand 20-30
static 21'

13'

23'

25'

W 16745
LEON Ambient #2

SEC 13, NW/NE, T2N, R1E

(CARR LAKE)

0-7 sand, brown, fine grain

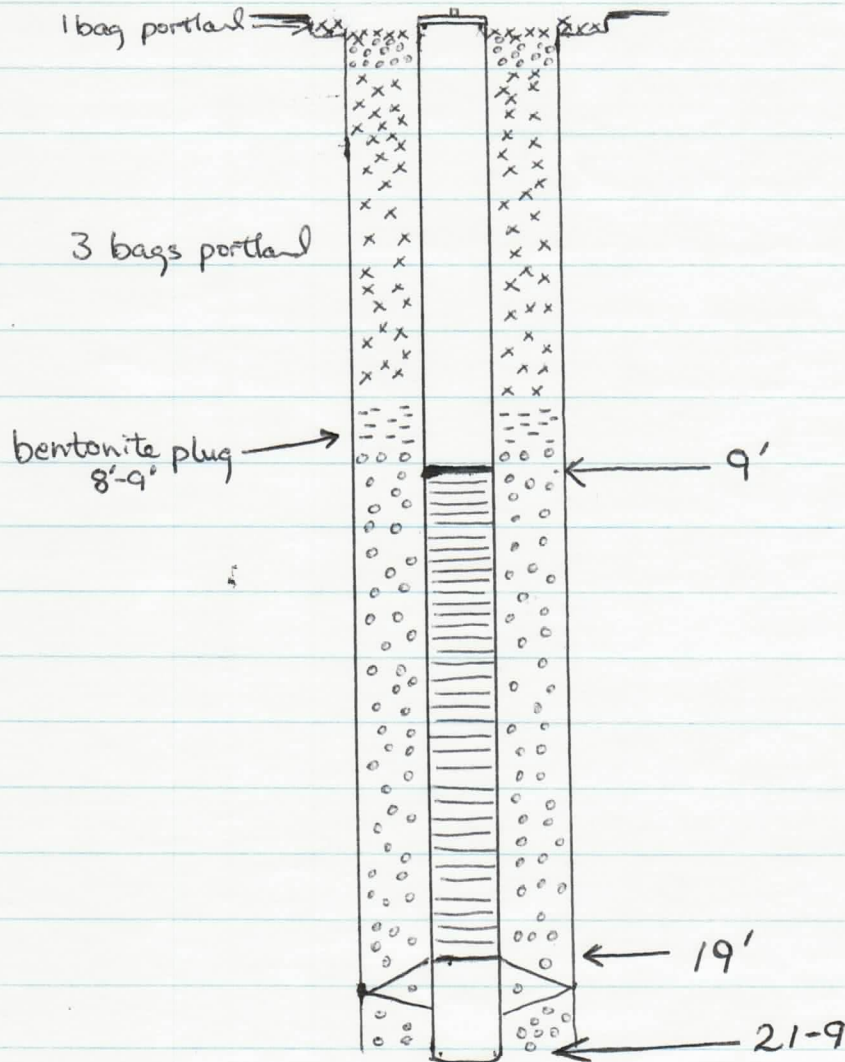
7-19 sand, white fine grained, rock + calcareous materials at 7 1/2'
and 12' sand becoming finer grade toward bottom

19-25 clay, white very fine sand

25-36 clay, yellow, sandy, white clay

Split spoon samples: ¹⁾ 5'-7', ²⁾ 9 1/2'-11 1/2', ³⁾ 19-20, ⁴⁾ 15 1/2'-17 1/2'

5' static



completed 3/3/92

W 16746

LEON Ambient #3-1 NW/SE, Sec 3, T2N, R2E
(BRADLEY STORE)

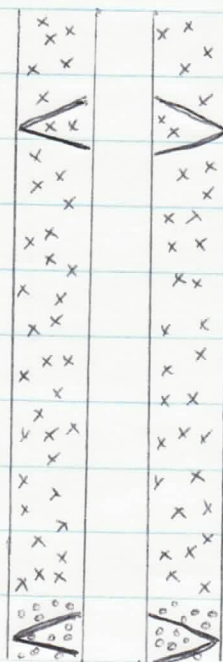
- 0-4 topsoil, sand, clay
- 4-14 clay, white, Fine SAND
- 14-17 clay, yellow, SAND
- 17-30 clay, white, rock Fragments 21', red rock
- 30-34 clay, red, rock Fragments 33'
- 34-49 clay, white rock streaks common, Lite green clay
- 49-51 clay, red, rusty colored rock Fragments
- 51-56 clay, white, red streaks, Sandy toward bottom
- 56-70 sand, white, Fine grain, packed, 58-65 clayey with rock
- 70-74 clay, tan to light green color, MORE ORANGE toward bottom
- 74-76 clay, red & yellow
- 76-85 clay, white & yellow, SANDY, mixture of a coarse calc. material and soft rock * Loss circulation 85'
- 85-102 clay, red & yellow, rock Fragments, SANDY
- 102-109 Rock, limestone, dirty cream color, clay streaks
- 109-159 Rock, limestone, white, clay streaks green till 121'

Loss Circ. 148'

Static 93'

blow with air

From 140'; approx 55gpm



Split spoon samples

5'-7' 10'-12' 17'-19'
25'-27' 33'-33 1/2"

20 bags portland 78'

10 bags portland 117'

121'

159' to

completed 3/2/02

Shallow Monitor

LEON Ambient #3-2

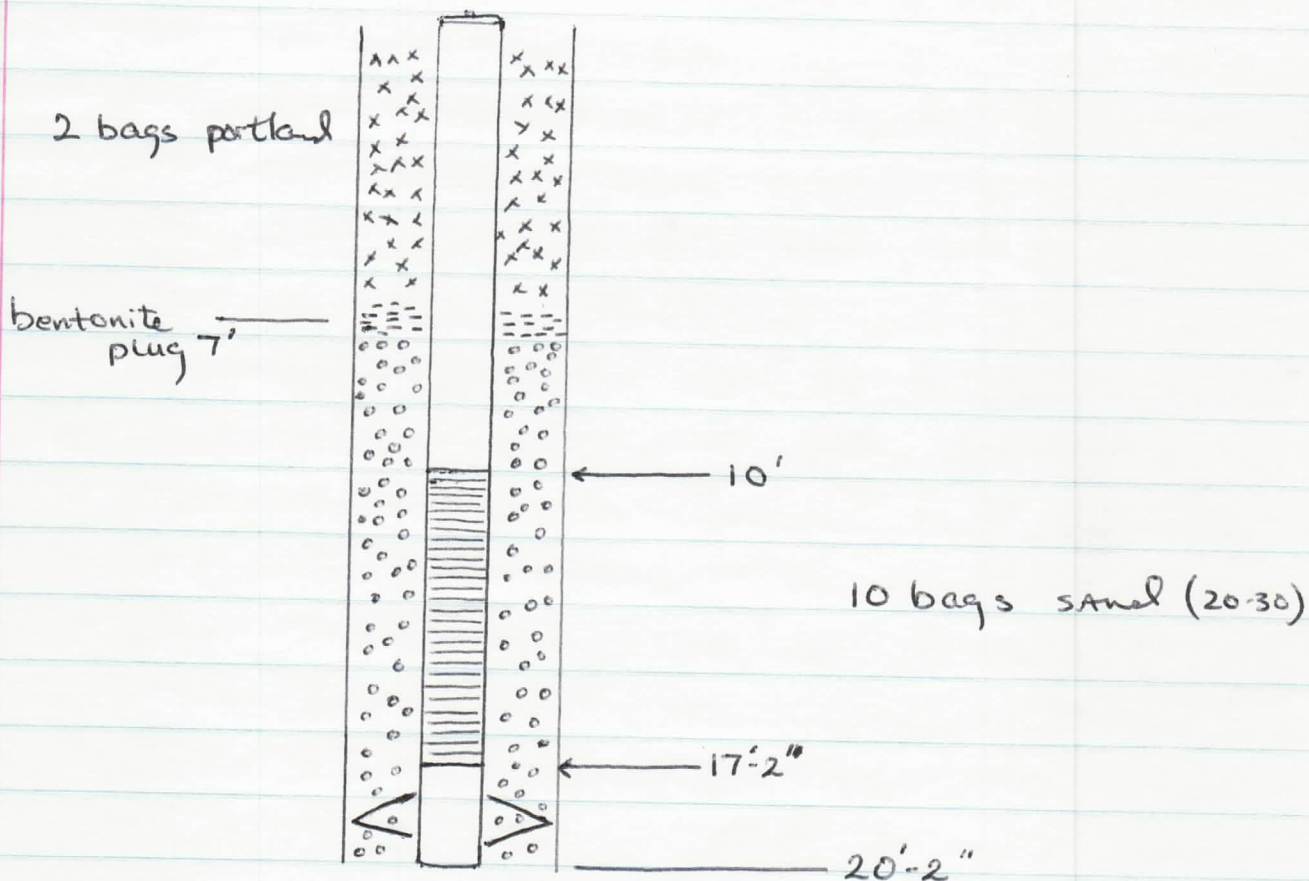
NW/SE, SEC 3, T2N, R2E

(Bradley Store)

0-5 topsoil, sand + clay

5-13 clay, white, fine sand

13-20 clay, yellow, sand



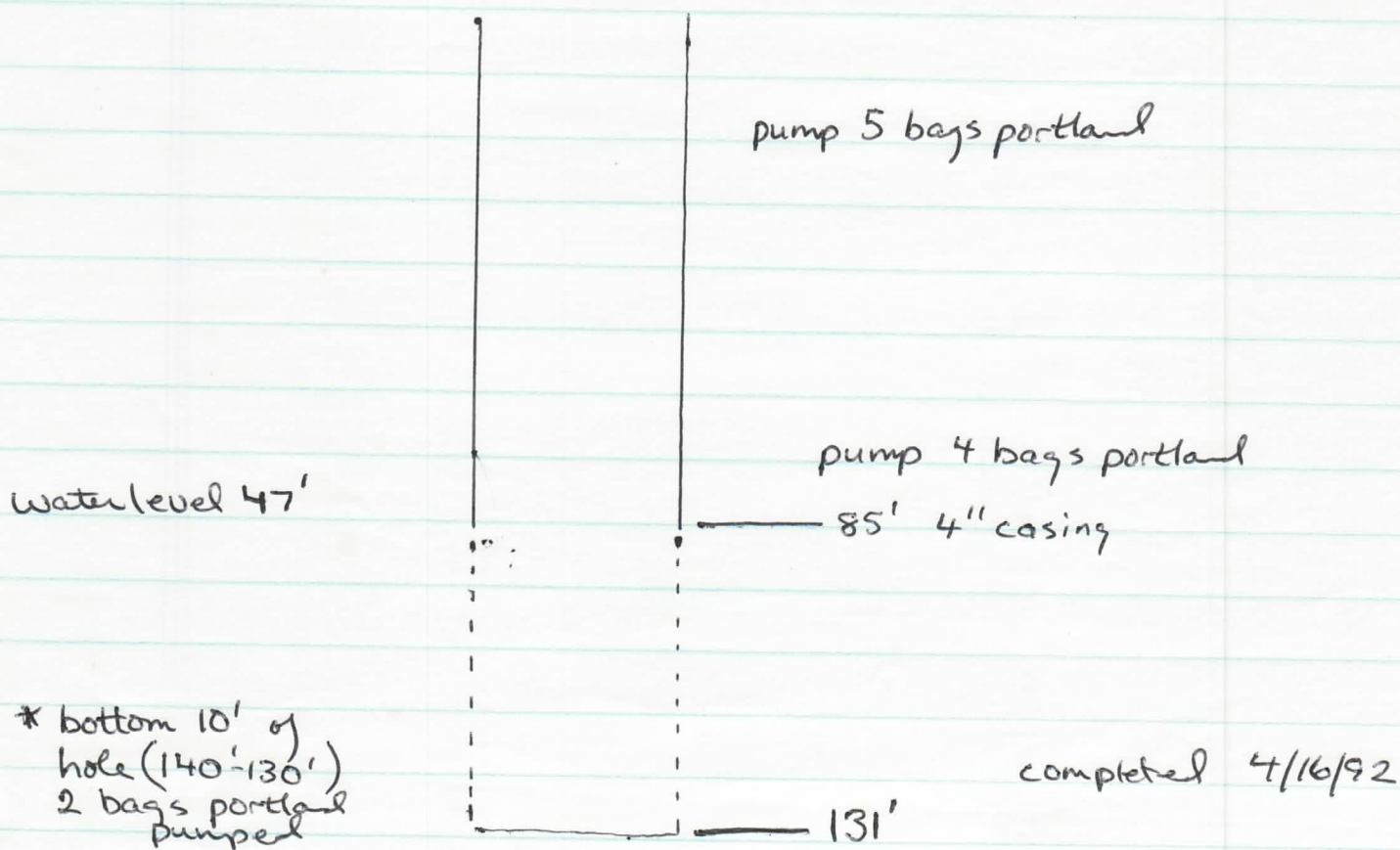
completed 3/30/92

W 16747

Ambient #4-1
(Lloyd)

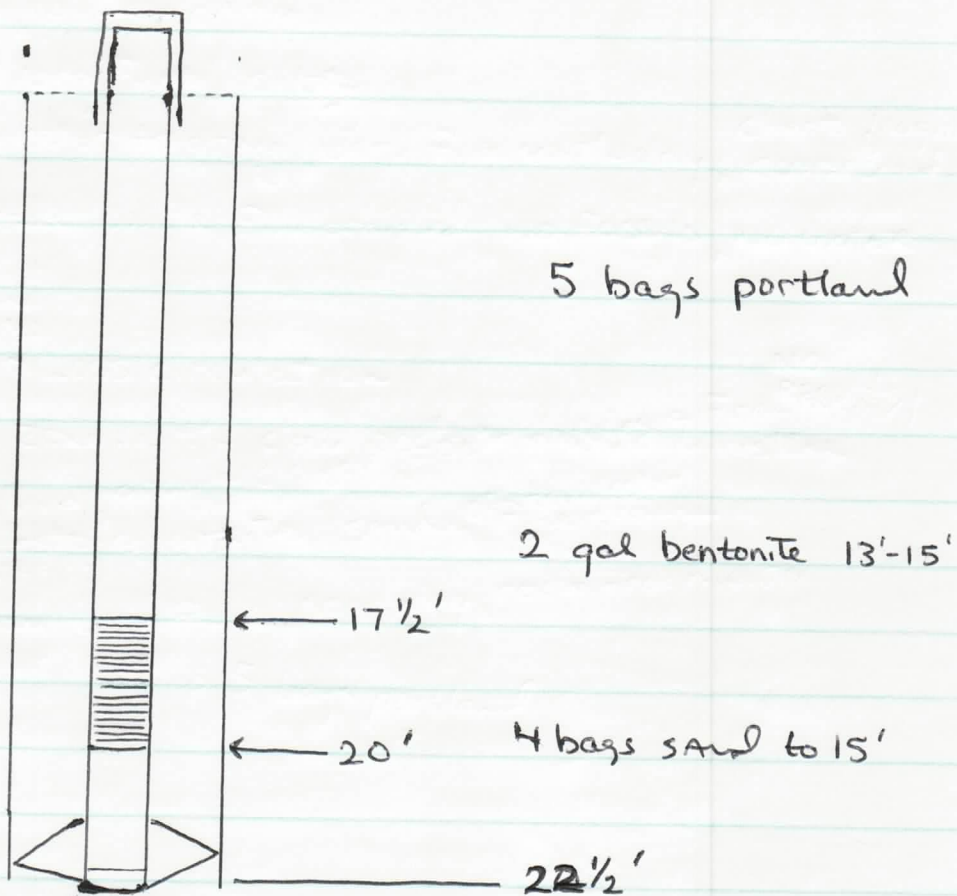
SE/SE, SEC 6, T1N, R4E

- 0-2 topsoil, sand
- 2-5 clay, yellow sandy
- 5-15 clay, red, white mottled, sandy
- 15-26 sand, clayey yellow
- 26-43 clay, yellow, white & gray
- 43-66 sand, white very fine silty,
- 66-83 sand, cream color to gray, very fine with clay, chert fragment coarse sand 68'
- 83-105 Rock, limestone, white fine grained, no fossils, no water
- 105-106 clay, gray
- 106-108 CAVITY → loss circulation
- 108-113 cavernous zone with clay pockets & white limestone NO RECOVERY
- 113-125 Rock, limestone, white sandy fine grain
- 125-130 SAND, gray very fine, some clay, rock fragments of tan color
- 130-141 SAND, packed, gray & clayey, rock pebbles & fragments
- 141-143 clay, green tight



Ambient #4-2 SE/SE, SEC6, TIN, R4E
(Lloyd)

- 0-2 topsoil
- 2-5 clay, yellow sandy
- 5-15 clay red-white
- 15-20 sand, clayey yellow



completed 4/21/92

W16843 LEON Ambient #5

SEC 19, T1S, R3W

(Vinzant trail)

0-7 SAND, white, fine grained

7-14 SAND, lite brown, medium to fine grained

14-31 SAND, tan color medium to coarse grained

31-34.5 clay, black, fine sand

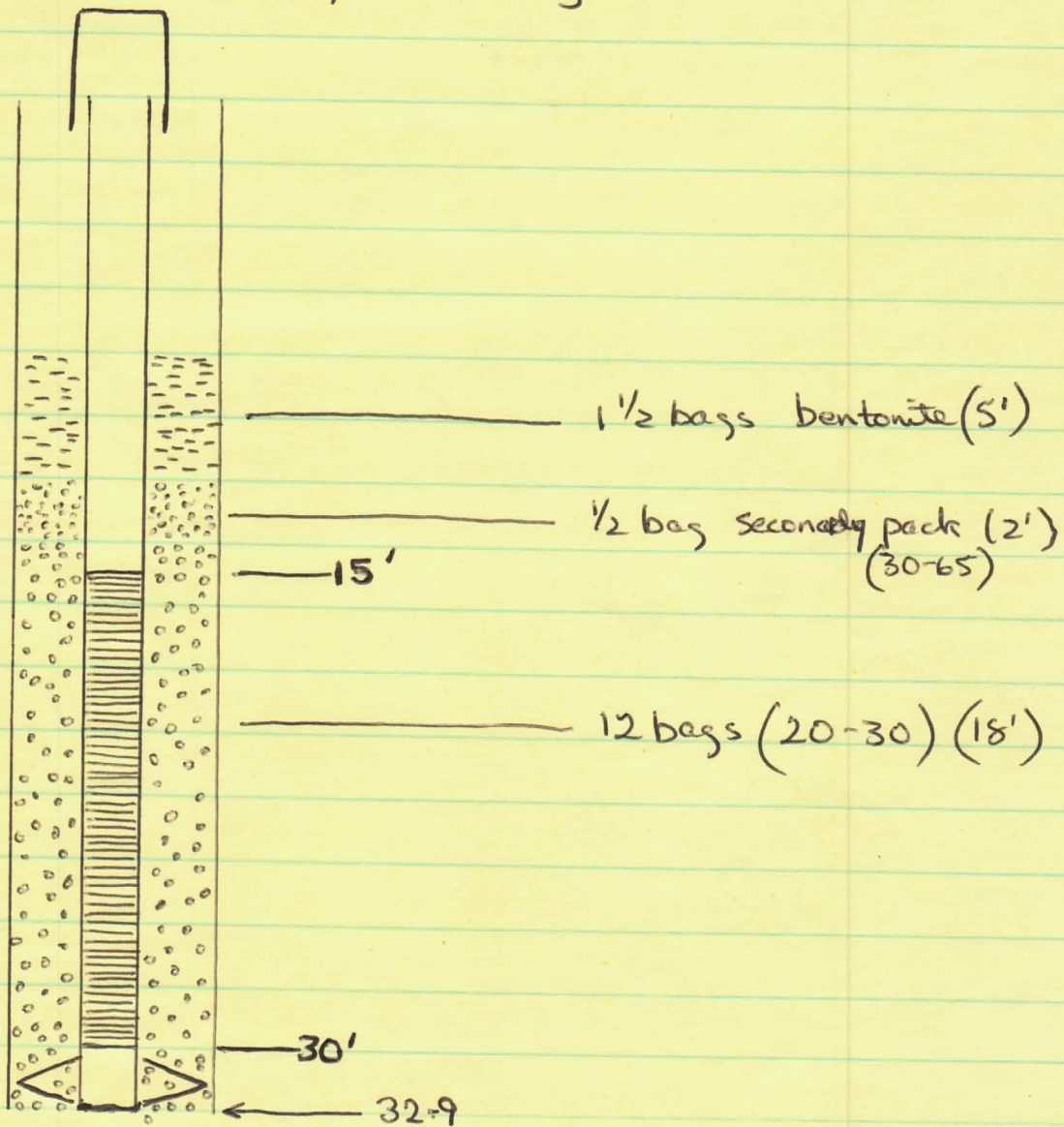
34.5-39 SAND, coarse grained some black clay
39-42 clay, thin bedded, silty

39-43 clay, black, shell at 43'

43-51 clay, sandy very shelly, caving in hole

51-70 SAND, gray, clayey

70-74 Rock, gray + sandy with clay gray color



completed 10/15/92

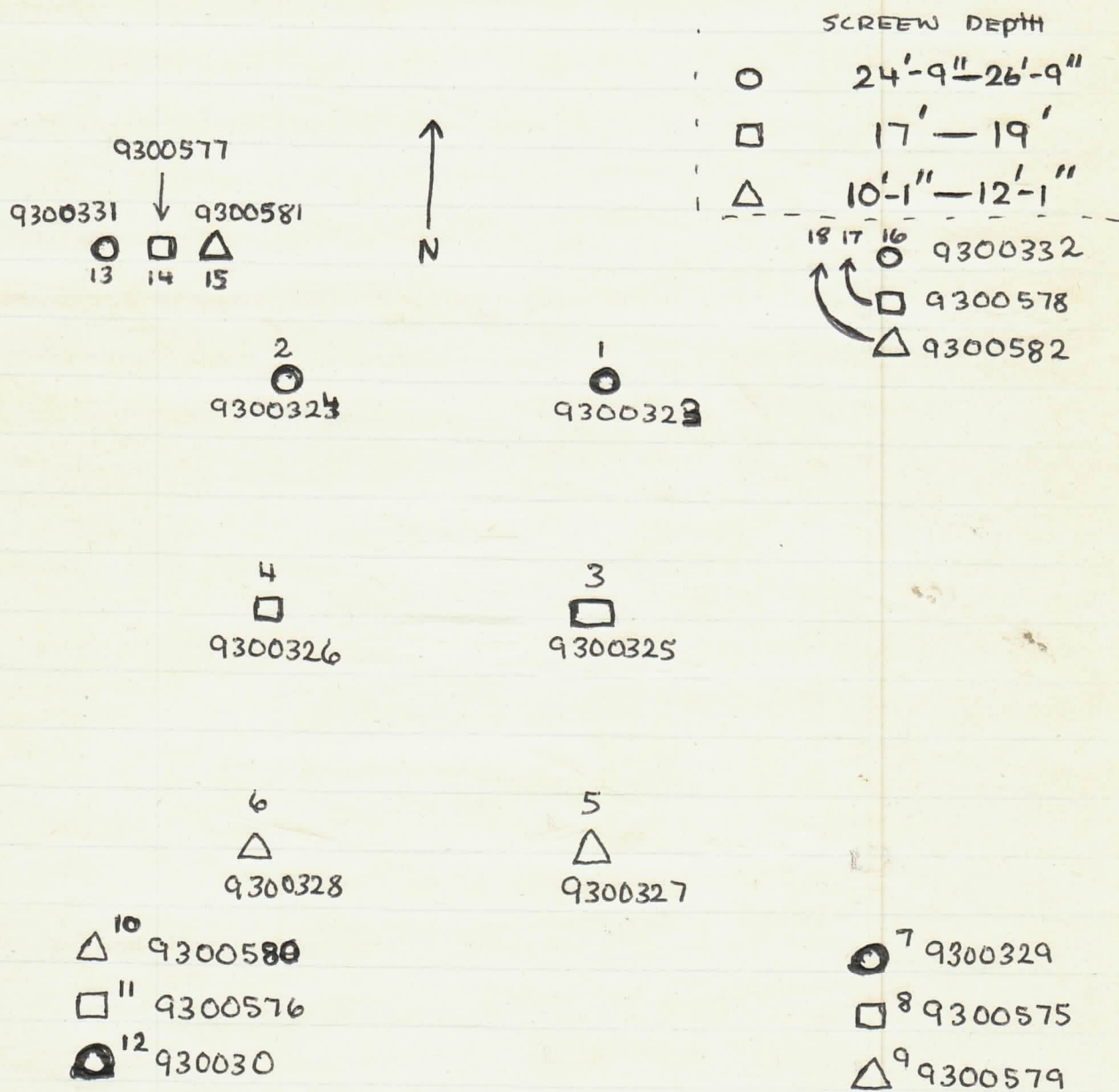
W 16851

LEON Ambient #6

- 0-6 sand, fine grained, gray, white
6-21 sand, fine grained black to lite brown
21-36 sand fine grained, white to a lite brown
36-36.2 sand, fine grained gray clay streak
36.2-38.2 sand white to brown medium grained
38.2-47 sand clay clayey medium grained
47-58 sandy clayey black turning brown (wood 47)
58-73 sand, brown medium grain some black clay
73-83 sand black clayey
83-85^{T.D} Rock, muddy lots of shells & small fossils
- split spore
5-7, 12-14, 19-21,
26-28, 33-35, 40-42,
45.5-47, 52-54,
59-61, 66-68
- pump 9 bags portland
10/22/92

W 16851

LEON Ambient #6 SEC 15, T2S R2W / SE/SW

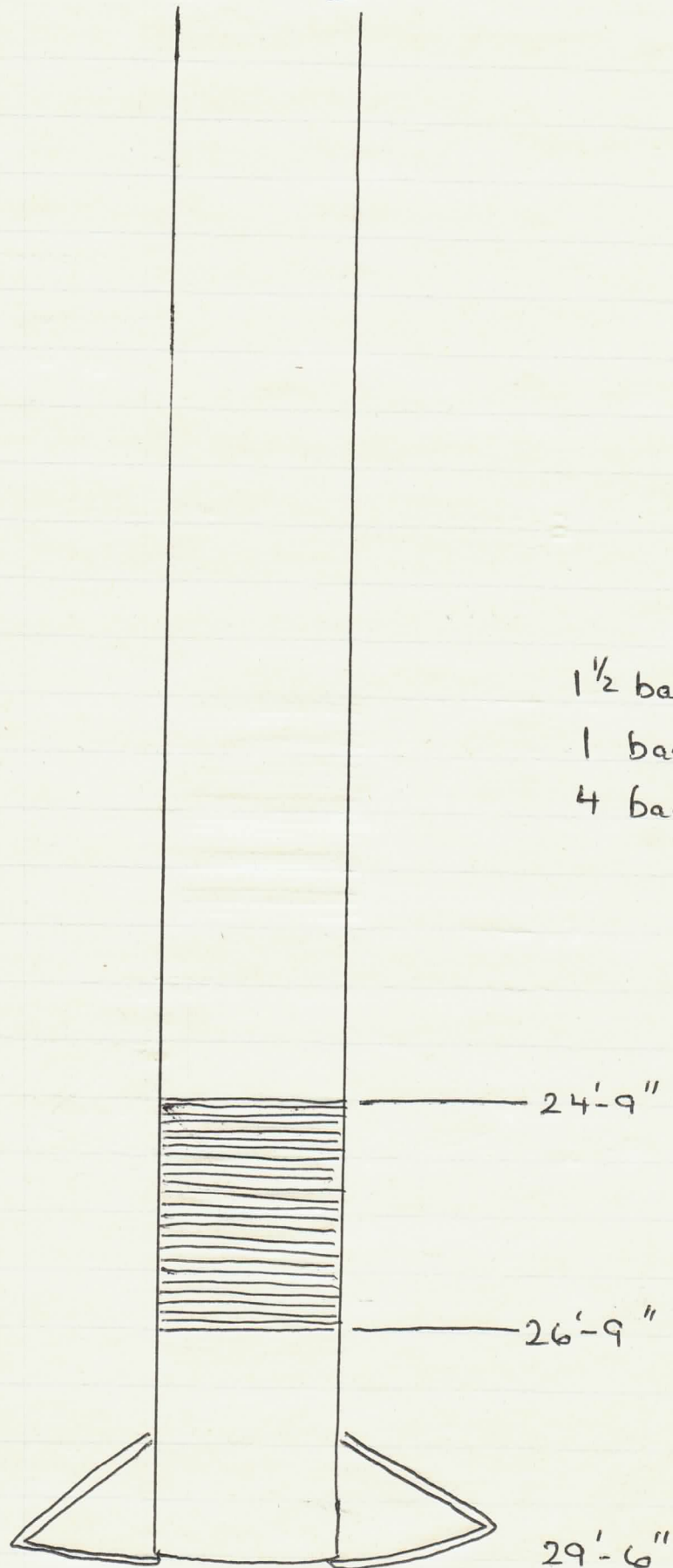


q300571, 572, 573, 574

LEOW Ambient #6

W 16851

WELL # 1+2



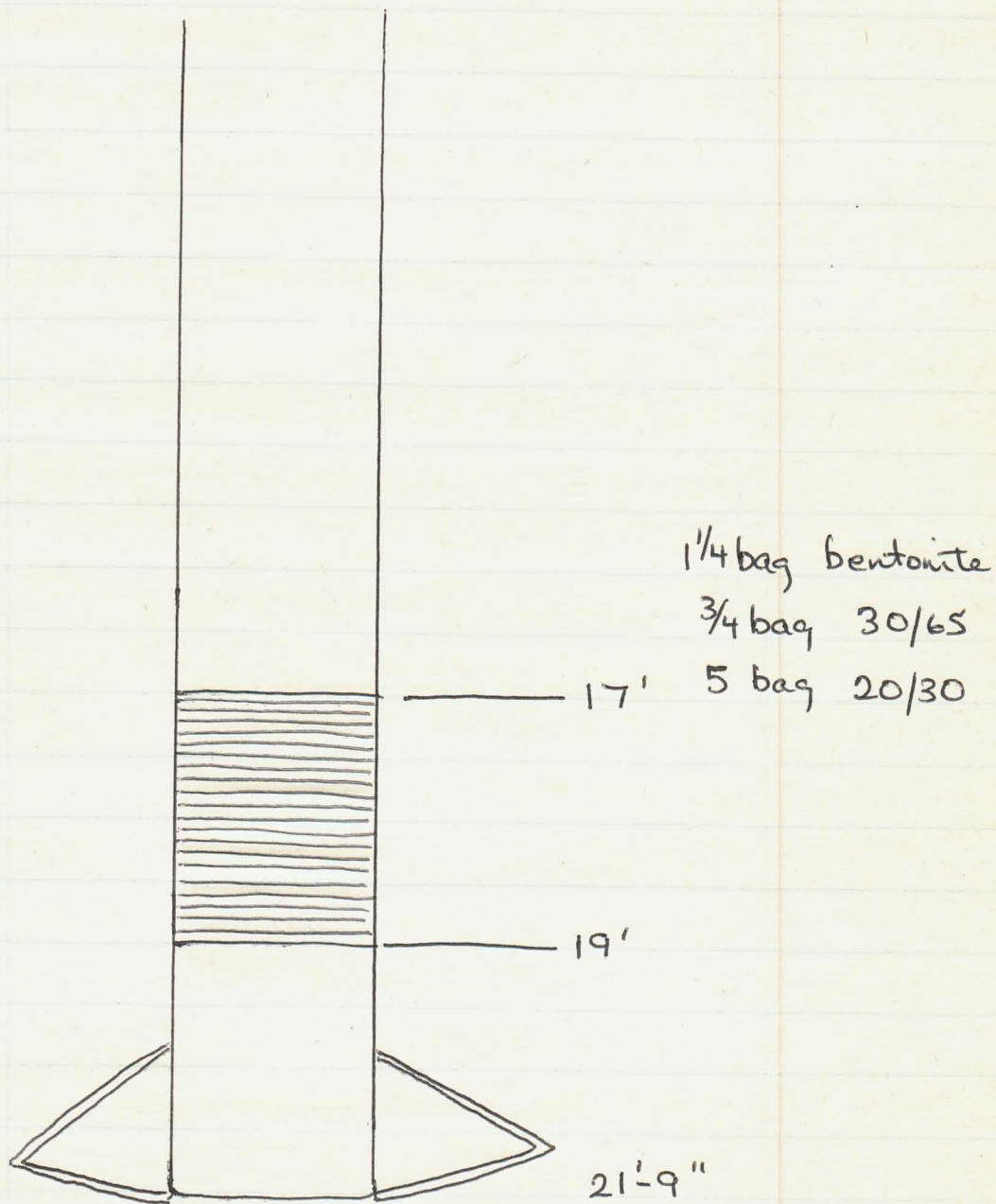
1 1/2 bag bentonite

1 bag 30/65

4 bag 20/30

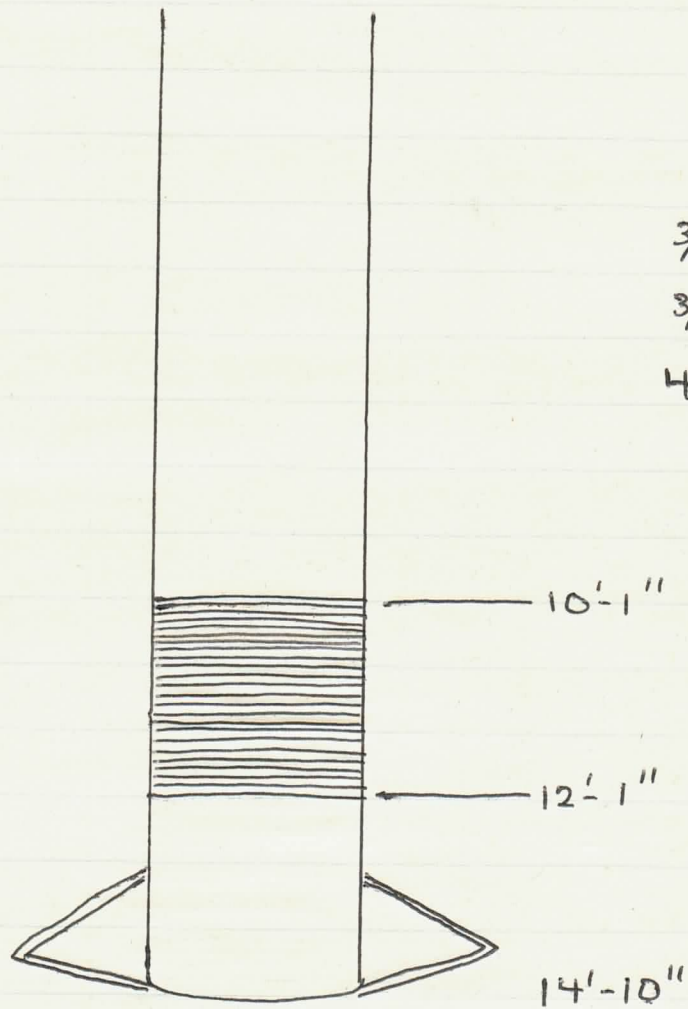
LEON Ambient #6

WELL # 3, 4



LEON Ambient #6

Well # 5+6



3/4 bag bentonite

3/4 bag 30/65

4 bag 20/30

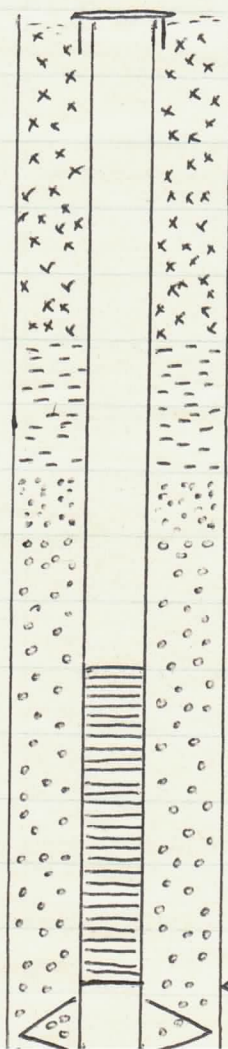
W16882

LEON Ambient #7 SEC 11, 15, 2W SW/SW

- 0-6 SAND, tan color, medium grain
- 6-10.3 SAND, tan color, lighter than above, med. grain
- 10.3-17 SAND, brown color, medium grain
- 17-21 SAND, black organic
- 21-28 SAND, white medium grain
- 28-30.5 clay, gray
- 30.5-36 SAND, clay gray
- 36-47 SAND, clayey yellowish
- 47-56 clay, sandy green
- 56-58 clay, sandy green, white rock fragments
- 58-62 NO RECOVERY CAVITY? * Loss circulation 60'
- 62-65 clay, white with rock, sandy white

Split spoon samples

6'-8', 12'-14', 19'-21'
28.5-27.5, 33'-35'
48'-49.5'



3 bags portland

9'

1 bag bentonite

2 bags of 30/65 sand

17'

14 bags of 20/30 sand

27'

Manatee Co W.T.P. SE/SW S25T34sR19E

0-4 SAND, white Fine grained
4-14 SAND, black, medium grained
14-25 SAND, black, Fine grained, packed, brown 23↓

10' screen 5'-15'
7 bags sand (20/30)
1/3 bag bent pellets
1/2 bag portland

completed 11/28/95



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT,
REPAIR, MODIFY, OR ABANDON A WELL

- ☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River

THIS FORM **MUST** BE FILLED OUT COMPLETELY.

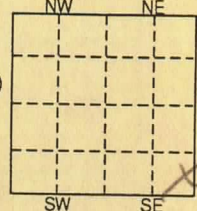
The well well contractor is responsible for completing this form and forwarding the permit to the appropriate delegated county where applicable.

CHECK BOX FOR APPROPRIATE DISTRICT. ADDRESS ON BACK OF PERMIT FORM.

Permit No. _____
Florida Unique I.D. _____
Permit Stipulations Required (See attached)
62-524 well ☐
CUP/ WUP Application No. _____

ABOVE THIS LINE FOR OFFICIAL USE ONLY

1. S.W. FLORIDA WATER MNGT DIST. 7601 HUY 301 N TAMPA FL 33637 813-585-1481
Owner, Legal Name of Entity if Corporation Address City Zip Telephone Number
2. MANATEE CO. WATER TREATMENT FACILITY - DAM ROAD - RAMP 34 - SWF PARCEL # 21-020-015
Well Location — Address, Road Name or Number, City
3. S.G. McQUINN 9081 796-7211 X4509
Well Drilling Contractor License No. Telephone No.
2379 BROAD ST
Address
Brookville FL 34609
City State Zip
4. 1/4 of SE 1/4 of Section 25
(smallest) (biggest) (Indicate Well on Chart)
5. Township 34S Range 19E
6. MANATEE Subdivision Name Lot Block Unit
County



7. Number of proposed wells 1 Check the use of well: (See back of permit for additional choices) Domestic Monitor (type) WATER QUALITY ☒
(See Back) Irrigation (type) Public Water Supply (type) List Other _____
Distance from septic system 500 ft. Description of facility HOUSE Estimated start of construction date 11-15-95

8. Application for: ☒ New Construction ☐ Repair/Modify ☐ Abandonment
(Reason for Abandonment) _____
9. Estimated: Well Depth 35.0 Casing Depth 25.0 Screen Interval from 25 to 35
Casing Material: Blk-Steel / Gal / PVC Casing Diameter 4" Seal Material CEMENT GROUT

10. If applicable: Proposed Grouting Interval From 20 to 25 Seal Material BENTONITE
From 0 to 20 Seal Material GROUT
From _____ to _____ Seal Material _____

11. Telescope Casing _____ or Liner _____ (check one) Diameter 4"
Blk-Steel / Galvanized / PVC Other (specify): _____

12. Method of Construction: ☒ Rotary ☐ Cable Tool ☐ Combination
☐ Auger Other (specify): _____

13. Indicate total No. of wells on site 1. List number of unused wells on site 0.

14. Is this well or any other well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? No ☐ Yes ☐
(If yes, complete the following) CUP/WUP No. _____
District well I.D. No. _____
Latitude _____ Longitude _____
Data obtained from GPS _____ or map _____ or survey _____ (map datum NAD 27 _____ NAD 83 _____)

15. I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code, and that a water use permit or artificial recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided on this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable, I agree to provide a well completion report to the District within 30 days after drilling or the permit expiration, whichever occurs first.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well; or, I certify that I am the agent for the owner, that the information provided is accurate, and that I have informed the owner of his responsibilities as stated above. Owner consents to personnel of the WMD or a representative access to the well site.

Signature of Contractor

License No.

Owner's or Agent's Signature

Date

DO NOT WRITE BELOW THIS LINE — FOR OFFICIAL USE ONLY

Approval Granted By: John H. H. H. Issue Date: 11/18/95 Hydrologist Approval _____
Owner Number: NO Fee Received: \$ NC Receipt No.: _____ Check No.: _____

THIS PERMIT NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL DRILLING OPERATIONS. **This permit is valid for 90 days from date of issue.**

W 17086

Stock Island Monroe Co. S35, T67s, R25E

- 0-13 Fill, crushed limestone, coral rock
- 13-16 clay, gray with shell
- 16-24 rock, limestone, shelly and crumbly
- 24-37 rock, coral + limestone, shells and marine Fossils
- 37-53 NO RECOVERY, rock very soft + crumbly with hard knots
- 53-57 rock, limestone, tan colored rock, some recrystallization
- 57-66 rock, limestone, coral rock, * begin wireline core 60'
- 66-88 rock, coral, soft zones probably soft rock + coral, poor recovery
- 88-100 rock, limestone, white, 96'-98' cavity
- 00-170 rock, limestone, fine grained, some shell Fossils, 160'-180' good recovery more shells, lots of soft zones throughout
- 70-200 rock, limestone, white mostly fine grained some large Fossils + shell imprints, 187'-191' very Fossiliferous
- 200-220 rock, limestone, white, coarse + grainy some large shells as above but not as many
- 220-259 rock, limestone, white to gray color small amount of shell
- 259-297 rock, limestone, gray color, coarse grained, shell Fossils very crumbly soft, 278'- very soft, sandy
- 297-308 rock, limestone, some shell Fossils, gray color
- 308-322 rock, sandstone gray, very few Fossils, coarse grained
- 322-331 rock, limestone, gray small amount of Fossils, soft, fast core
- 331-552 rock, limestone, sandy with black phosphate specs, poorly cemented, some core eroding away by pump, shell imprints
- 552-591 rock, limestone, brown to light tan, turning more gray with more black phosphate and grainy texture
- 591-678 rock, limestone, olive green, less phosphate than above turning more gray color at 608'
- 678-755 rock, limestone, tan, 731, black streaks, black phosphate streak at 678', harder core, worm burrows, clay, gray 722'-22.5

- 755-775 rock, limestone, tan & sandy, 766'-767' hard limestone
- 775-849 rock, limestone, tan, soft & crumbly, sandy, poorly cemented with shell & sand, few large shells
- 849-857 rock, limestone, tan color, hard, very dense with shell imprints
- 857-881 rock, limestone tan color, sandy, crumbly with shells embedded in rock
- 881-896 rock, limestone, tan as above, small pockets in rock
- 896-915 rock, limestone, tan, some large shells, mostly a large concentration of small fossils packed together
- 915-937 rock, coral, very fossiliferous some black coral, mostly tan
- 937-959 rock, limestone, tan color, very crumbly, small fossils
- 959-1021 rock, limestone, tan, slightly more cemented

Long Key

W 17156 SWS 26, T64S, R3SE

- 0-10 F.U., Limestone + coral + rock fragments 30' of 12" PVC
10-125 rock, Limestone, white 153' of 8" PVC
125-28 rock, Limestone, coral, soft spots 635' of 4" PVC
28-43 rock, Limestone + coral, white some very soft core
43-73 rock, Limestone + white coral
73-105 rock, coral + Limestone, very rubbly hole caving circ. at 62 * Loss
105-152 rock, Limestone, white fine grained (better recovery)
Less coral than above, white shell
152-158 rock, Limestone, light gray color, rubbly poor recovery
158-209 SAND, white fine grained, some sandstone fragments
209-297 SAND, white fine grained
297-315 SAND, white, green clay; 298' green clay
315-464 SAND, white with green clay
464-561 SAND, fine grain, grayish green clay
561-624 clay dark gray, sandy
624-629 SAND, coarse, poshate pebbles?
629-631 clay, white limey
631-640 Limestone, white soft
640-675 rock, Limestone white, fine grained
675-683 rock, Limestone, fossiliferous, many shells
683-799 rock, Limestone, white some shell imprints, fine grained
799-952 rock, Limestone, white, shelly, soft crumbly
952-977 rock, Limestone fine grained, grayish color, fine
broken shell embedded, becoming more recrystallized from 960'
977-1096 rock, Limestone + dolomite, white to tan color, sandy,
shell fossils, good recovery
1096-1111 rock, dolomite, gray to whitish, poor recovery lots of vugs
and burrows, core breaking up, soft coral at 1119
1111 - 1168 rock dolomite, coral at 1141', poor recovery gray to tan color
1168 - 1290 rock Limestone, light tan color, some zones very fossiliferous,
poor recovery (1209-1212 cavity) 1212-1216 very broken,
possible voids and small cavities, no recovery

Long Key

1290-1330 rock, limestone, tan lots of fossils lots of re-crystallization, core breaking up badly

1330-1368 rock, limestone, tan color, soft grainy, lots of small fossil shell

* 1340-Suwanee pick

1368-1372 rock, limestone, hard, shell fossils, tan color

1372-1401 rock, limestone, small fossils, shells, some recrystallization, black streak running horizontal

3" core hole was reamed to $3\frac{7}{8}$ " to 1131', reaming was stopped due to excessive cuttings in bore hole.

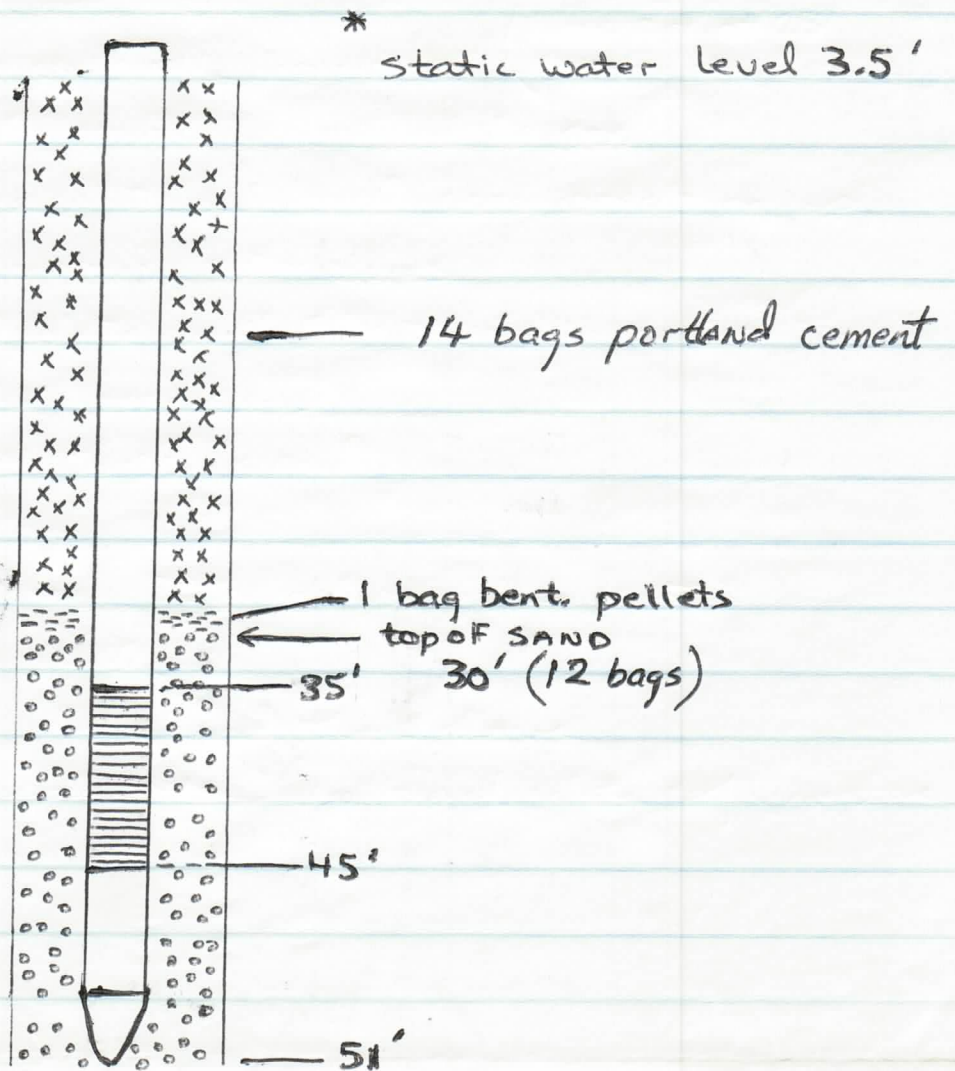
11/20/94

Carysfort Campground

W. 17157

- 0-27 CORAL, white Limestone
- 27-58 CORAL, white & yellowish Limestone (Loss circ. at 25'
Set 41' of 6" casing)
- 58-75 Sandstone, hard brown Limestone lenses
- 75-104 CORAL, Limestone white and hard, core breaking up,
poor recovery, numerous soft zones
- 104-136 Limestone, hard, white with soft zones; 116-118 (Set 131' of 4" casing)
- 136-147 Sandstone & some loose sand
- 147-156 Sandstone, soft, 156-55, sand
- 156-270 Sandy green clay
- 270-380 Sandy green clay, 328 hard sandstone knot
- 380-402 Clay, green sandy
- 402-455 Sandy clay, more sand than above
- 455-456. Rock, black rock than yellowish white soft limestone

Carysfort Campground

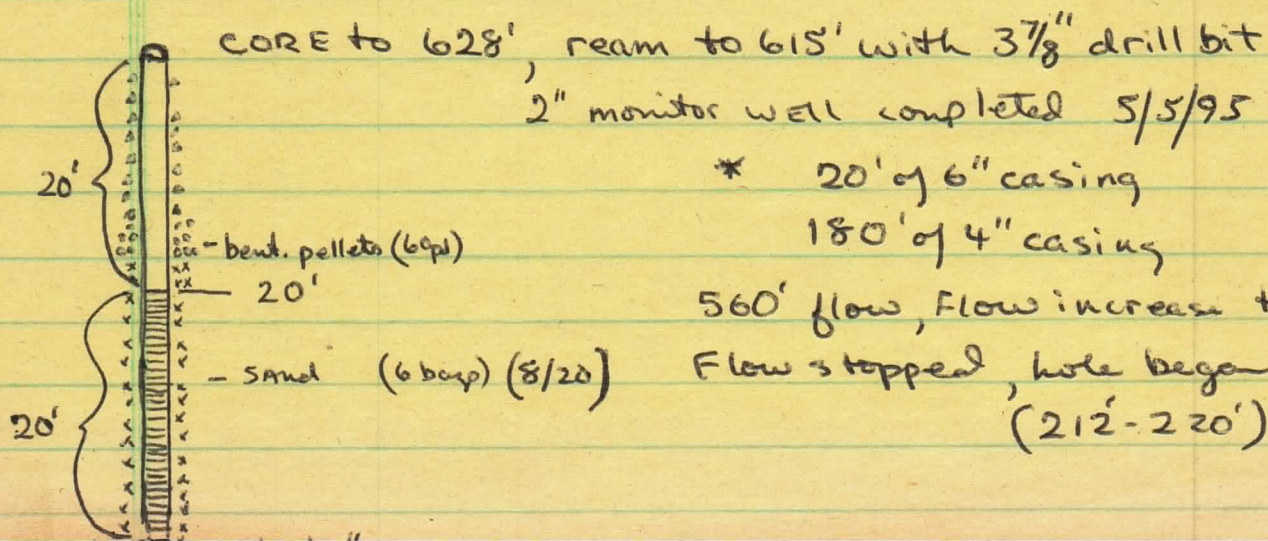


W/7273

EVERGLADES CORE

SW 1/4 S36, T58S, R36E

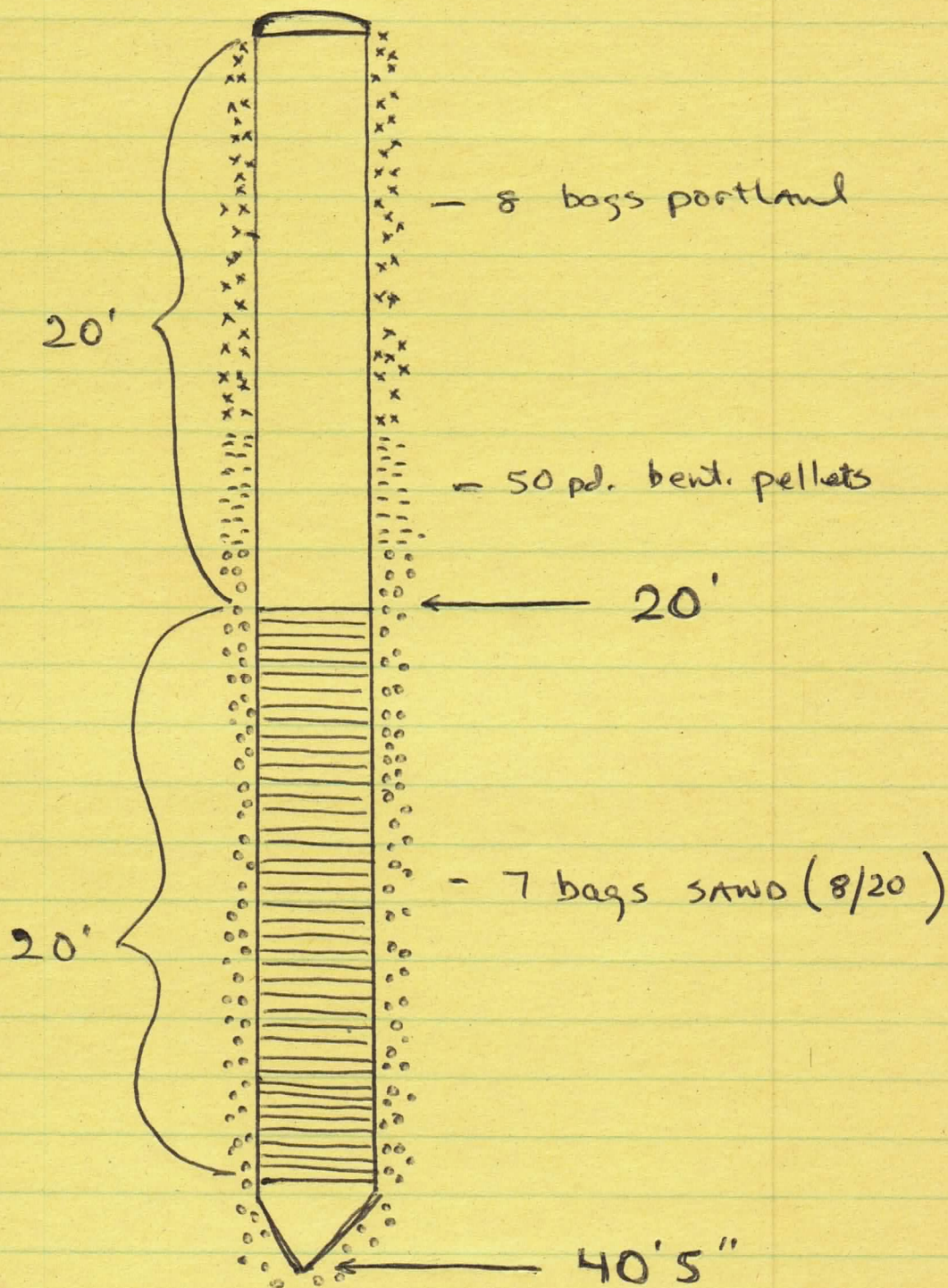
- 0-3 spoil, black topsoil, rock fragments
- 3-12.5 Rock, tan very hard with softer white limestone
- 12.5-22 Rock, white, yellowish color in vug + pockets, some fine grain tan colored rock very hard
- 22-43 Rock, limestone, vuggy, shell fossils, white (32' 6" cavity)
- 43-120 SAND, shelly, gray medium grained
- 120-166 SAND, clayey, green fine grained, broken shell
- 166-171 clay, gray some shell + rock fragments
- 171-189 rock, white shelly
- 189-212 SAND, gray, shell fragments medium grained
- 212-220 SAND, with shell fragments, coarse sand
- 220-249 SAND, gray greenish clay, some sandstone, white calcareous clay
- 249-321 clay, sandy green
- 321-477 clay, green
- 477-482 SAND, fine grained, green clay
- 482-484 Rock, limestone tan color with black phosphate chunks
- 484-520 Rock, limestone, gray + shelly
- 520-615 Rock, limestone, white shelly zones, fine grained no fossils
- 615-628 Rock, limestone, fine mealy no visible fossils, tan-cream color



W17273

EVERGLADES CORE

SW 1/4 S36, T58S, R36E
completed 5/5/95



Fort Desoto PARK S6, T35s, R16E, Pinellas Co.

- 0-4 Spoil, sand & shell mix
4-4.5 SAND, fine, black organics
4.5-12 SAND, fine grained, white small and broken shell
12-32 SAND, medium grain, shell
32-39 SAND, medium grain, gray and shelly
39-49.5 SAND, medium grain, black, shells, Rock Fragment at 44'
49.5-52 SAND, clayey, gray calcareous mud, Rock Fragments
52-92 SAND, clayey, gray to black very shelly * Clay barrel run from 52' to 57' No recovery
92-109 clay, gray, shelly & sandy * Clay barrel stopped 109
109-123 SAND, gray shelly : NO RECOVERY, shell recovered in cutting
123-128 clay, gray sandy with phosphate grains
128-137 clay, grayish green, phosphate pebbles
137-142 Rock, white limestone, phosphate grains

completed 1/13/96

10 bags portland pumped
from bottom

Mailed
10/21/96
P

W 17342

FORT MEADE SE/SW, S23, T31S, R25E

- 0-3 topsoil, black sand fine grained
3-9 sand, brown medium grain
9-15 clay, white sandy, rock fragments
15-28 clay, redish brown, rock fragments, white clay
28-32 sand, brown medium grained
32-35 clay, white sandy
35-38 clay, gray very tight
38-42.5 clay, white with sand brown, rock fragments
42.5-54 Rock, white clayey till 47* (rock barrel used)
phosphate noted at 54'↓
54-71¹⁰ Rock, fine grained, phosphate grains, chalky

20' SCREEN 38'-58'

14 bags sand

1 bag bent.

7 bags portland

Completed 11/17/95



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT,
REPAIR, MODIFY, OR ABANDON A WELL

- ☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River

THIS FORM **MUST** BE FILLED OUT COMPLETELY.

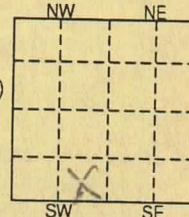
The water well contractor is responsible for completing this form and forwarding the permit to the appropriate delegated county where applicable.

CHECK BOX FOR APPROPRIATE DISTRICT. ADDRESS ON BACK OF PERMIT FORM.

Permit No. _____
Florida Unique I.D. _____
Permit Stipulations Required (See attached)
62-524 well ☐
CUP/ WUP Application No. _____

ABOVE THIS LINE FOR OFFICIAL USE ONLY

1. SOUTHWEST FL WATER MAJG DIST 7601 HWY 301 N TAMPA FL 33637 985-748
Owner, Legal Name of Entity if Corporation Address City Zip Telephone Number
2. FE MEADE BALLPARK COMPLEX - 9th STREET - RAMP 45 - SUF PARCEL # 20-976-001
Well Location - Address, Road Name or Number, City
3. S. G. McQuinn 9081 796-7211 EXT 4509
Well Drilling Contractor License No. Telephone No.
2379 BROAD ST. SE 1/4 of SW 1/4 of Section 23
Address (smallest) (biggest)
Brookville FL 34607 (Indicate Well on Chart)
City State Zip
4. SE 1/4 of SW 1/4 of Section 23
(smallest) (biggest)
5. 31S 25E
Township Range
6. POLK — — — —
County Subdivision Name Lot Block Unit



7. Number of proposed wells 1 Check the use of well: (See back of permit for additional choices) _____ Domestic _____ Monitor (type) WATER QUALITY
(See Back) Irrigation (type) Public Water Supply (type) _____ List Other _____
Distance from septic system 1200 ft. Description of facility RESIDENTIAL HOUSE Estimated start of construction date 11-27-95

8. Application for: ☒ New Construction _____ Repair/Modify _____ Abandonment _____
(Reason for Abandonment)

9. Estimated: Well Depth 50.0' Casing Depth 40.0' Screen Interval from 40 to 50
Casing Material: Blk-Steel / Gal / PVC Casing Diameter 4" Seal Material BEST THES GROUT

10. If applicable: Proposed From 25 to 30 Seal Material BEADITE
Grouting Interval From 0 to 25 Seal Material CEMENT GROUT
From _____ to _____ Seal Material _____

11. Telescope Casing _____ or Liner ON (check one) Diameter 4"
Blk-Steel / Galvanized / PVC Other (specify): _____

12. Method of Construction: ☒ Rotary _____ Cable Tool _____ Combination _____
Auger _____ Other (specify): _____

13. Indicate total No. of wells on site 4. List number of unused wells on site 0.

14. Is this well or any other well or water withdrawal on the owner's contiguous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ☒ No _____ Yes

(If yes, complete the following) CUP/WUP No. _____

District well I.D. No. _____

Latitude _____ Longitude _____

Data obtained from GPS _____ or map _____ or survey _____ (map datum NAD 27 _____ NAD 83 _____)

15. I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code, and that a water use permit or artificial recharge permit, if needed, has been or will be obtained prior to commencement of well construction. I further certify that all information provided on this application is accurate and that I will obtain necessary approval from other federal, state, or local governments, if applicable, I agree to provide a well completion report to the District within 30 days after drilling or the permit expiration, whichever occurs first.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well; or, I certify that I am the agent for the owner, that the information provided is accurate, and that I have informed the owner of his responsibilities as stated above. Owner consents to personnel of the WMD or a representative access to the well site.

Signature of Contractor

License No.

Owner's or Agent's Signature

Date

DO NOT WRITE BELOW THIS LINE — FOR OFFICIAL USE ONLY

Approval Granted By: [Signature] Issue Date: 11/18/95 Hydrologist Approval _____
Owner Number: 206 Fee Received: \$ N/C Receipt No.: _____ Check No.: _____

THIS PERMIT NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL DRILLING OPERATIONS. **This permit is valid for 90 days from date of issue.**

W 17343

GREEN SWAMP

SE/SE S17, T26S, R23E

- 0-5.5 topsoil, brown sand
- 5.5-25 clay, white
- 25-30 clay, white & white rock, taking fluid
- 30-40 Rock, white, taking fluid

SCREEN set 28'-38'

- 11 bags sand
- 1 bag bent.
- 10 bags portland

completed 11/15/95



GREEN SWAMP W 17343
STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT,
REPAIR, MODIFY, OR ABANDON A WELL

- ☐ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River

THIS FORM **MUST** BE FILLED OUT COMPLETELY.
The water well contractor is responsible for completing this
form and forwarding the permit to the appropriate delegated
county where applicable.

CHECK BOX FOR APPROPRIATE DISTRICT. ADDRESS ON BACK OF PERMIT FORM.

573548-01
Permit No. _____
Florida Unique I.D. _____
Permit Stipulations Required (See attached)
62-524 well ☐
CUP/ WUP Application No. _____

ABOVE THIS LINE FOR OFFICIAL USE ONLY

1. SW FLORIDA WATER MANG DIST 7601 HWY 301 N TAMPA FL 33637 813 985-7431
Owner, Legal Name of Entity if Corporation Address City Zip Telephone Number
US HWY 98 ROAD 87
2. Well Location — Address, Road Name or Number, City
S. E. McILWAIN 9081
3. Well Drilling Contractor License No. Telephone No.
2379 BROAD ST (DISTRICT) 796-211 EXT. 4509
Address (Indicate Well on Chart)
Brookville FL 34609
City State Zip
4. SE 1/4 of SE 1/4 of Section 17
(smallest) (biggest)
5. Township 26S Range 23E
6. POLK Subdivision Name Lot Block Unit
County

7. Number of proposed wells 1 Check the use of well: (See back of permit for additional choices) Domestic Monitor (type) WATER QUALITY
Irrigation (type) Public Water Supply (type) List Other
(See Back) (See Back)

Distance from septic system 500 ft. Description of facility HOUSE Estimated start of construction date 11-13-95

8. Application for: ☒ New Construction ☐ Repair/Modify ☐ Abandonment (Reason for Abandonment)

9. Estimated: Well Depth 25.0 Casing Depth 15.0 Screen Interval from 15 to 25
Casing Material: Blk-Steel / Gal / PVC Casing Diameter 4" Seal Material GROUT

10. If applicable: Proposed From 10 to 15 Seal Material BEST SITE
Grouting Interval From 0 to 10 Seal Material GROUT
From _____ to _____ Seal Material _____

11. Telescope Casing _____ or Liner _____ (check one) Diameter 4
Blk-Steel / Galvanized / PVC Other (specify): _____

12. Method of Construction: ☒ Rotary ☐ Cable Tool ☐ Combination
Auger Other (specify): _____

13. Indicate total No. of wells on site 2. List number of unused wells on site 0.

14. Is this well or any other well or water withdrawal on the owner's contiguous property covered
under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? ☒ No ☐ Yes

(If yes, complete the following) CUP/WUP No. _____

District well I.D. No. _____

Latitude _____ Longitude _____

Data obtained from GPS _____ or map _____ or survey _____ (map datum NAD 27 _____ NAD 83 _____)

15. I hereby certify that I will comply with the applicable rules of Title 40, Florida Administrative Code,
and that a water use permit or artificial recharge permit, if needed, has been or will be obtained
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application is accurate and that I will obtain necessary approval from other federal, state, or local
governments, if applicable. I agree to provide a well completion report to the District within 30 days
after drilling or the permit expiration, whichever occurs first.

I certify that I am the owner of the property, that the information provided is accurate, and that I am aware of my
responsibilities under Chapter 373, Florida Statutes, to maintain or properly abandon this well; or, I certify that I
the agent for the owner, that the information provided is accurate, and that I have informed the owner of his re-
sponsibilities as stated above. Owner consents to personnel of the WMD or a representative access to the well

Signature of Contractor

License No.

Owner's or Agent's Signature

Date

DO NOT WRITE BELOW THIS LINE — FOR OFFICIAL USE ONLY

Approval Granted By: Tom Hall Issue Date: 11/8/95 Hydrologist Approval _____
Owner Number: 206 Fee Received: \$ NC Receipt No.: _____ Check No.: _____

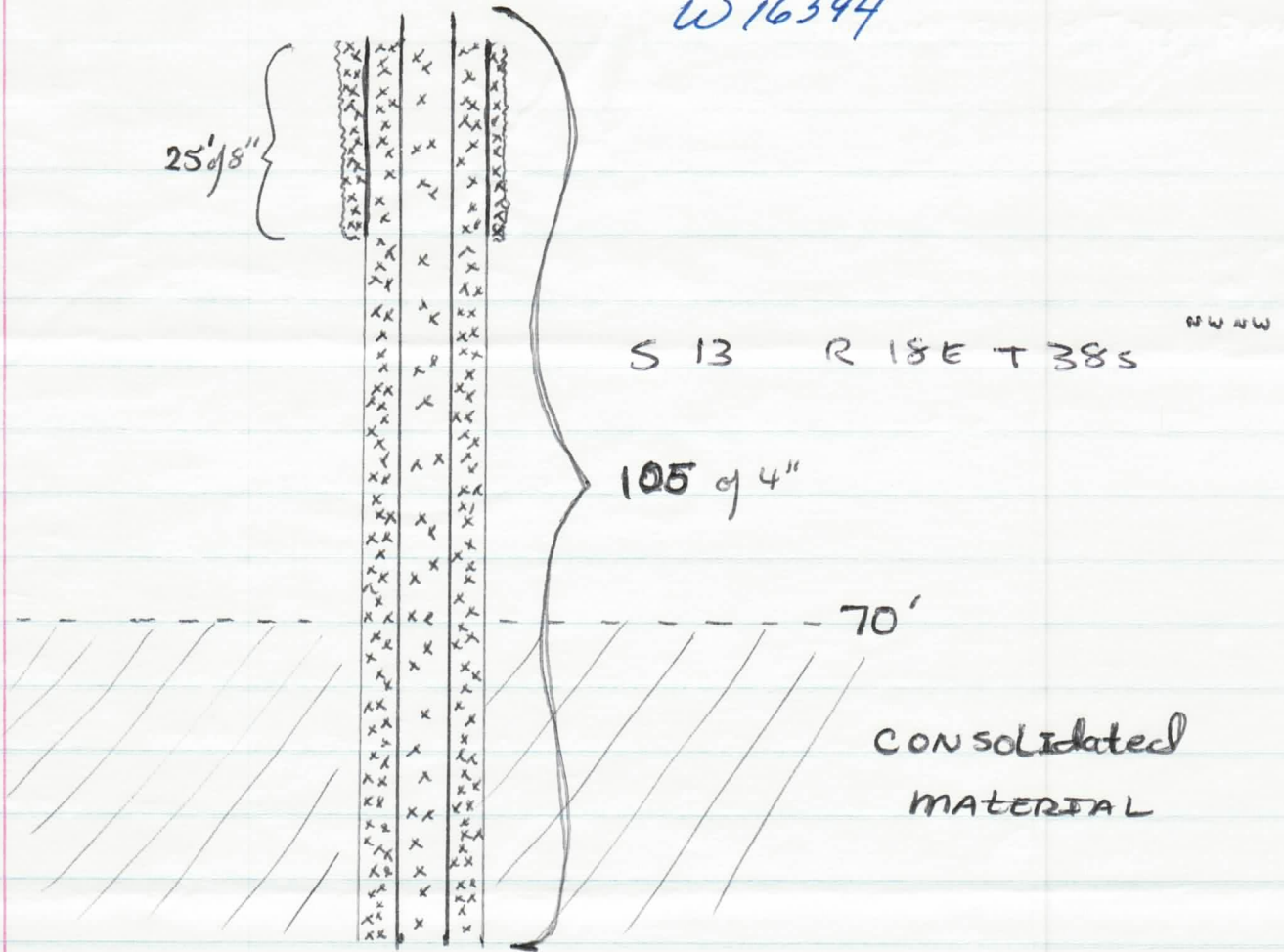
THIS PERMIT NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD. IT SHALL BE AVAILABLE AT THE
WELL SITE DURING ALL DRILLING OPERATIONS. This permit is valid for 90 days from date of issue.

W 16394

OSCAR SCHERER SW/NW, SEC 13, T 38S, R 18E

- 0-4 SAND, white fine grained
- 4-8 SAND, brown to tan, fine grained
- 8-12 SAND, clay, yellow, shell
- 12-25 SAND, shell rock fragments, phosphate * Rock barrel used from 12' ↓
- 25-38 Rock, sandy with phosphate * Set 25' of 8" casing
- 38-50 Rock, sandy, clay lenses brown to gray
- 50-54 Rock, fine grained
- 54-67 clay, green
- 67-71 Rock, clay streaks
- 71-93 Rock, fine grained, lateral layering (89'-90') clay brown 83', 87'
- 93-105 Rock, gray fossiliferous, broken
- 105-148 Rock, cream color, fine grained, chalky toward bottom

W 16394



120' 4" PVC 12.4' / bag 9.65 bags cap. of 120' of 4"

4.6' / bag (3" hole) 26.02 bags annular space

total 35.67 bags grout

12972

Please complete in black ink or type

W 16394

WELL COMPLETION REPORT

Owner's Name Oscar Scherer St Rec AreaPermit Number: V89-540X John A. Morrell
Water Well Contractor's Signature Completion Date 9/15/83License No. 2589SURFACE CASING, CASING
AND LINER MATERIAL:

Types	Diam. (In.)	From (Ft.)	To (Ft.)
PVC	8"	0	25'
PVC	4"	0	105'
Neat Cement: No. of Bags		From (Ft.)	To (Ft.)
12 bags		0	25'
		0	105'

IRON: _____ ppm SULFATES: _____ ppm CHLORIDES: _____ ppm

FINISH: Screen: _____ (Ft.) Open Hole: _____ (Ft.)

WELL LOCATION

_____ % NW ¼ of Section 13

38	S	18	E
Township	(N-S)	Range	(E-W)

Latitude				} Optional may be required
Longitude				
	Deg.	Min.	Sec.	

Locate in Section

DRILL METHOD

Form No. 25-18-5/83

☒ Rotary ☐ Cable Tool ☐ Jet ☐ Auger Other _____

Measured Static Water Level _____ + _____ - _____ Ft.

Measured Pumping Water Level _____ + _____ - _____ Ft.

After _____ Hours At _____ G.P.M.

Measuring Pt. (Describe): _____

Which is _____ Ft. ☐ Above ☐ Below Land Surface

Depth (Ft.)		Examine cuttings at 20 ft. or smaller intervals and at changes. Give color, grain-size and type of material. Note any cavities. Indicate producing zones. Attach additional sheets if necessary.
From	To	
0	4	SAND white, fine grained
4	8	SAND, brownish, fine gr
8	12	SAND, clay, yellow, shell
12	25	SAND, clay, dark, fine, phosphate
25	38	Rock, sandy, with phosphate
38	50	Rock, sandy, clay silts, brown
50	54	Rock, fine grained
54	67	Clay, green
67	71	Rock, clay silts
71	93	Rock, fine grained
93	105	Rock, gray, fossiliferous
105	148	Rock, brown color, breaking

Driller's Name John Morrell

W 16536

(Sarasota County)

Quality Aggregates

NW/NW SEC 3 T36S R19E

5/11/90

- 0-3 top soil, organics
- 3-8 SAND, tan medium grain
- 8-14 SAND, white, Fine grain
- 14-26 SAND, gray med. grain, Shell whole & chips
- 26-28 SAND, gray fine grain, Limestone frag. 27'
- 28-37 SAND, Shell, gray clay
- 37-42 shelly clay, gray med. grained sand
- 42-50 SAND, phosphate grains
- 50-91 clay, sandy, green, phosphate present
- 91-106 Rock, sandstone, clayey toward bottom, few fossils

W 16782

CARLTON RESERVE SEC 31, T38S, R20E

- 0-6 topsoil, sand, gray, turning black at 3'
- 6-8 shell, sandy gray
- 8-21.5 sand, gray medium grain, some gray clay streaks
- 21.5-33 rock, chert fragments, rubble zone 25-26, gray Limestone
- 33-51.5 clay grayish green turning darker green at bottom
- 51.5-57.5 rock, limestone soft, gray fine grain, clayey *set 41' of 6" casing
- 57.5-77 rock, lite gray, very Fossiliferous, Uuggy
- 77-92 rock, as above, less Fossils, fine grain *Slight Flow 70'
- 92-96 clay, gray turning white more calcareous toward bottom
- 96-112 rock, fine grained, hard, Few fossils, some clay packets *set 100' of 4" casing
- 112-116 rock, Limestone, very Fossiliferous, producing water
- 116-132 rock, Limestone, white, fine grained, phos. pebbles, clay, gray
- 132-167 rock, white, phosphatic grains, clay streaks *begin wireline 132'
- 167-168 clay, gray, clay zone 161.5-162.5
- 168-171 chert 170-171, Limestone white *begin using 169
- 171-175 clay grayish green, tight
- 175-182.5 rock, very clayey greenish-gray
- 182.5-183 rock, Limestone, hard
- 183-185 Limestone, grayish to dirty cream color
- 185-188 rock, very clayey green
- 188-199 Limestone, hard gray, some clay vugs, pockets, burrows
- 199-205 Limestone, off white fine grained
- 205-209 clay, green
- 209-245 Limestone dark grey, Fossiliferous, *Slight Flow 212'
Fast core, Uuggy, white fine grained bottom 236' a 22 gpm Flow
- 245-280 sand stone, poor recovery, sand 260'-280'
- 280-287 sand, grayish with black phosphate grains
- 287-288 rock, Limestone, tan, phosphate embedded, fine grained
sandstone lower 6"

W# 16782

- 288-296 NO RECOVERY, very Fast drill, SAND
296-300 Rock, sandy, cuttings taken
300-305 Rock, sandy, hard, cuttings taken
305-308 Rock, hard brown and sandy *
308-311 SAND (loose), sandstone SET 305' of 3" casing
311-314 Rock, dolomite hard
314-320 clay, calcareous, coarse SAND
320-338 Rock, Limestone, tan color, crumbly + sandy
338-341 SAND, sandstone, phosphate grains
341-347 Rock, sandy, grayish color
347-352 calcareous mud, white
352-353 sandstone
353-369 Rock Limestone, tan sandy
369-380 SAND, sandstone, phosphate grains
380-390 sandstone, phosphate grains
390-400 Rock Limestone some fossils
400-403 Rock, dolomite tan, hard
403-405 dolomitic mud, white
405-420 Rock, Fine grained dolomitic cream color to gray * Flow 409
420-442 Rock, Fine grained sandy, some green clay streaks
442-450 clay, dark green + sandy
450-472 rock, Fine grain, no fossils, phos. grains clay packets (green)
472-477.5 clay, green, very sandy
477.5-484 Rock, dolomite Fine grain, phosphate, sandy
484-494 clay, green very sandy, Fast core
494-503 Limestone, gray very sandy, dense some green + gray clay
503-521 dolomite cream color, Fine grain, sandy clay 510-11 * Last noticeable phosphate
521-527 Limestone, white to gray conglomerate, packed

W 16782

- 527-534 Limestone, white dense, (clay 531-34 no recovery)
534-545 dolomite cream color
545-547 clay, very fine silt gray calcareous
547-559 Limestone cream color calc. clays gray to black 551-55
559-580 Limestone cream color, zones very fossiliferous, becoming
more coarse grained 573 to bottom

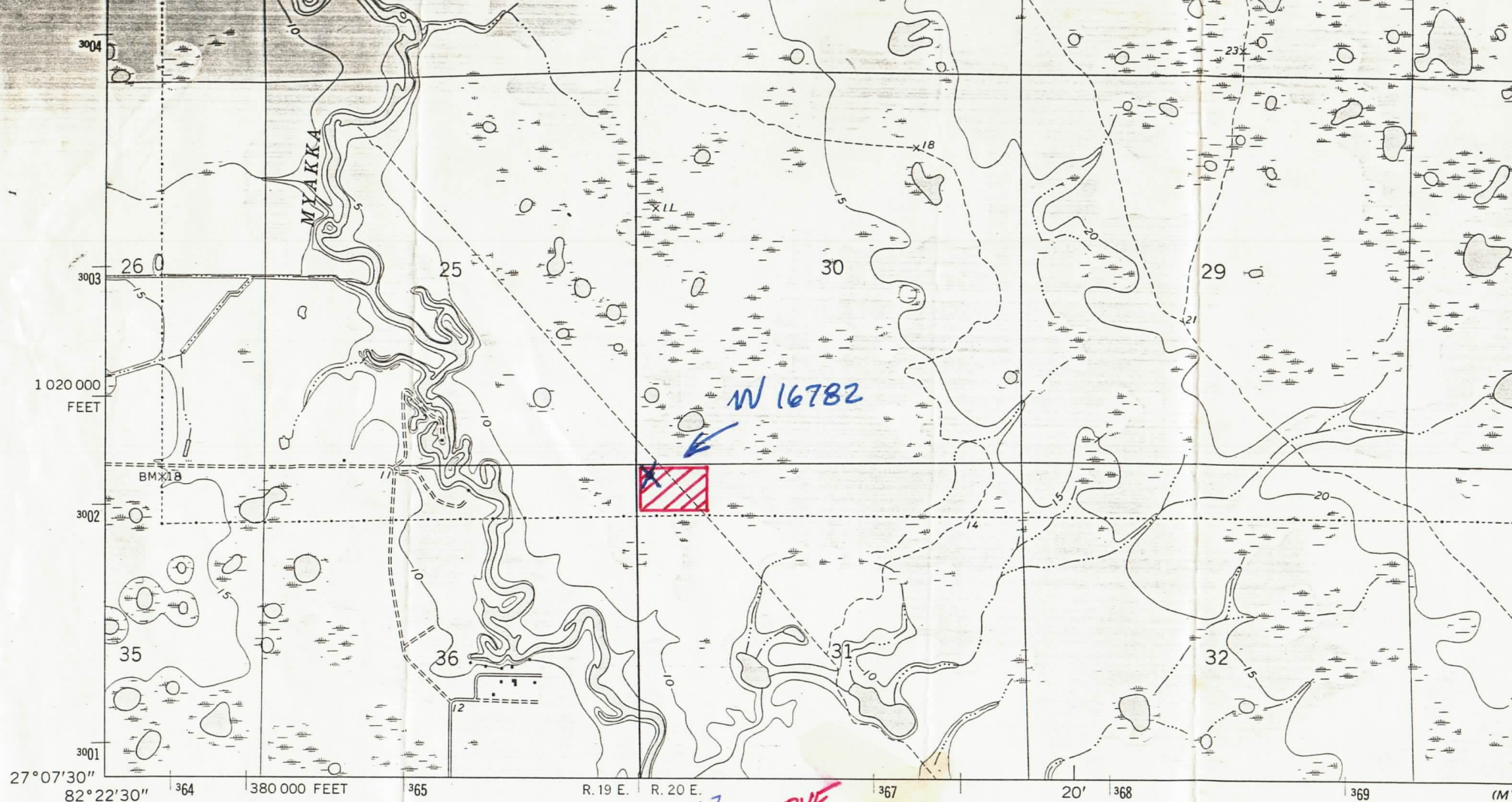
Split Spoon Samples

6'-7'

14'-16'

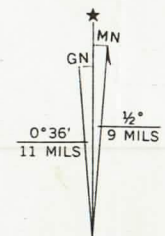
18.5'-20.5'

38'-40'



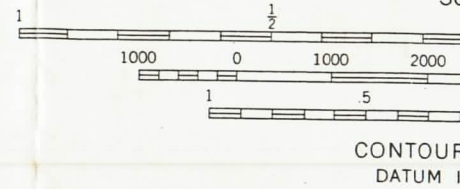
Mapped, edited, and published by the Geological Survey
 Control by USGS, USC&GS, and Florida Geodetic Survey
 Topography by photogrammetric methods from aerial photographs
 taken December 1971. Field checked 1973
 Supersedes Army Map Service map dated 1944
 Projection and 10,000-foot grid ticks: Florida coordinate
 system, west zone (transverse Mercator)
 1000-meter Universal Transverse Mercator grid ticks,
 zone 17, shown in blue. 1927 North American datum
 Fine red dashed lines indicate selected fence and field lines where
 generally visible on aerial photographs. This information is unchecked

W 16782
 CARLTON RESERVE
 SITE
 T385, R20E, S31



UTM GRID AND 1973 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET

ex. 35



THIS MAP COMPLIES WITH
 FOR SALE BY U. S. GEOLOGICAL SURVEY
 A FOLDER DESCRIBING TOPOGRAPHIC

W 16814

South Venice

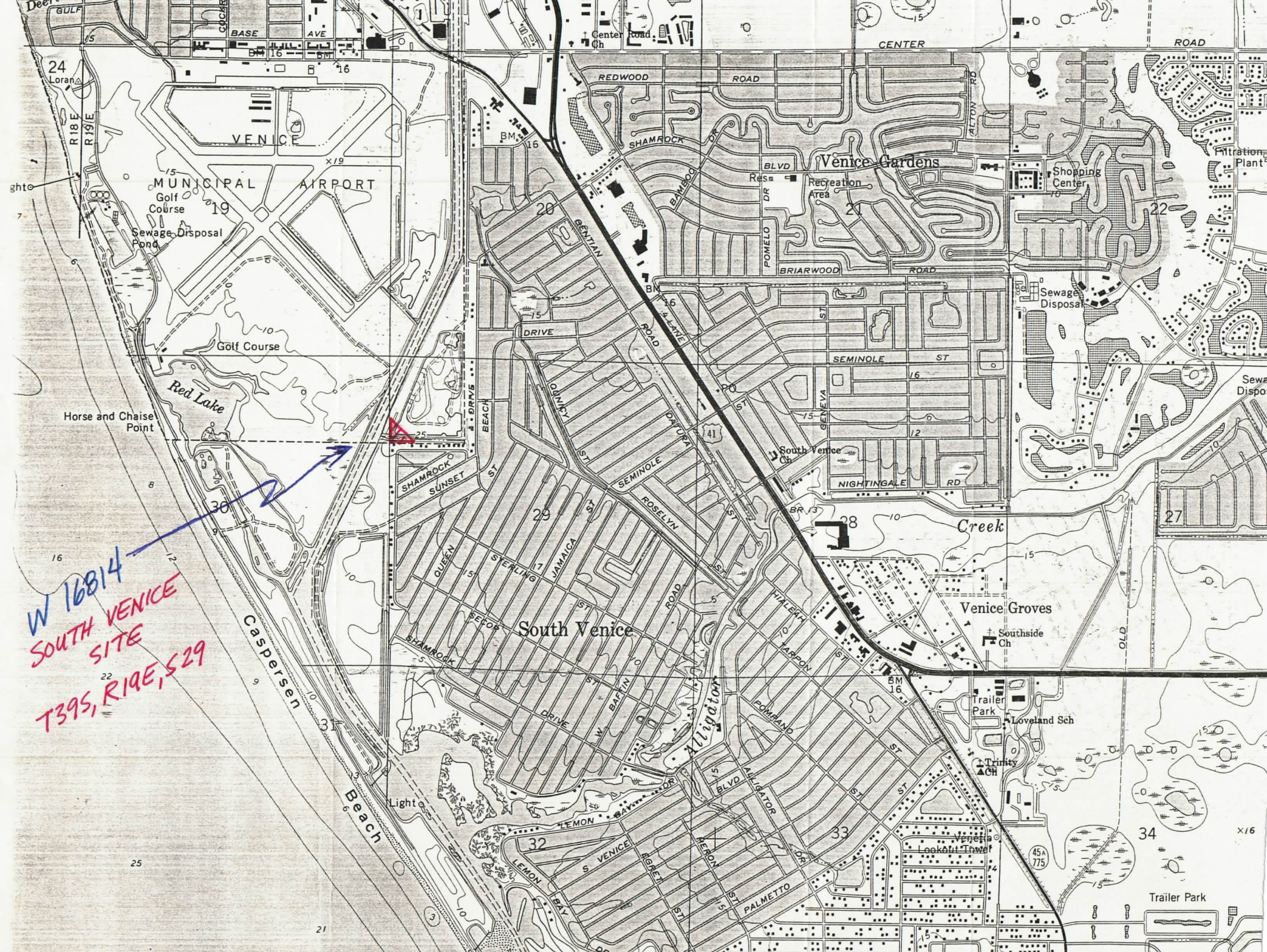
SEC. 29, T 39 S R 19 E, SE 1/4, NW 1/4 NW 1/4

- 0-4 SAND, gray
- 4-8 SAND, brown and black
- 8-14 SAND, Lite brown, Fine grain
- 14-16.5 SAND, white, streaks of coarse SAND, phosphate pebbles
- 16.5-21.5 SAND, brown to black, phosphate, medium grain sand
- 21.5-25 Shell, SANDY, phosphate grains
- 25-28 clay, grayish green, SANDY
- 28-52.5 SAND, medium grain, some clay, phosphate
- 52.5-55 clay, calcareous, Lite gray, phosphate grains + SAND
- 55-68 SANDY clay, green with phosphate grains
- 68-81 clay, gray, SANDY zones
- 81-87 Rock, dolomite, gray SANDY, lower sec. hard brown
- 87-89.5 clay, gray SANDY, rock Fragments, phosphate grains
- 89.5-120 Rock, gray dolomite, phosphatic, clay streak 97-99.5
- 120-139 clay, green (Venice clay)
- 139-144 Rock, dolomite, brown to dirty white, dark clay pockets
- 144-155 Rock, Limestone, white medium hard, fine grain few Fossils
- 155-156 clay dark green
- 156-158 Rock, Limestone, clay, Lite gray
- 158-170 Rock, Limestone, chert 167-167.3
- 170-200 Rock, Limestone, Fine grain, SANDY, phosphate grains
- 200-208 Rock, dolomite, grey color, Fine grain, phosphate grains, clay streak 206.5-206.7
- 208-215 Rock, dolomite, chunks of phosphate embedded, clay dark gray pockets, Fossil imprints in rock
- 215-228 Rock, dolomite cream color, phosphate grains, no Fossils
- 228-236 Rock, dolomite, highly recrystallized, tan to cream, small vugs in rock, Fossils present, clay pockets * Loss circ. 230'
- 236-242 Rock, dolomite, Fine grained, gray-green color

W16814

- 242-250 Rock dolomite, gray, clay pockets, sandy, phosphate grains
250-254 clay, sandy with phosphate, dry and packed
254-260 dolomite gray to light tan, sandy, clay streaks
260-269 clay, white packed, fine sand
269-275 dolomite tan color, gray clay lenses
275-285 Rock, dolomite tan color, green clay lenses
285-285.2 chert, dark grey
285.2-299 clay, green, turning gray in lower part, 289-895-chert
299-301 rock, dolomite, gray color
301-305.5 clay, dark green
305.5-317 Rock, dolomite, white
317-328 Rock, limestone, white, fossiliferous, good porosity
328-334 Rock, dolomite, tan, highly recrystallized lots of
moldic impressions; shells
334-350 Rock, dolomite, some limestone, few fossils and
gray clay lenses
350-353 clay, sandy? [NO RECOVERY]
353-358 Rock, dolomitic, sandy
358-369 Rock, dolomite, gray color, sandy, very fine grain
369-375 clay, white, limy
375-379.5 Rock, white, vuggy, tan color
379.5-381.5 Rock, dolomite, tan, dense, fine grain, hard core
381.5-391.3 Rock, dolomite, recrystallization throughout, fossils
common, tan color blotchy to gray
391.3-393 Rock, dolomite cream color, sandy dense
393-396 clay, limy [NO RECOVERY]
396-398 clay, limy as above, recovered 8"
398-401 Rock, dolomite very hard, dense, tan color
401-407 Rock, sandy, no fossils tan color
407-408 Rock, dolomite, sandy

- 408-417 Rock, sandstone, some dolomitic patches
- 417-426 Rock, dolomite Fossils & vugs, tan color
- 426-429 Rock, dolomite hard, tan to light cream color
- 429-435 Rock, sandstone, tan dolomite
- 435-471 Sandstone, with dark green clay & gray clay
- 471-476.2 Rock, Limestone, white, phosphate & sand, small shell Fossils
- 476.2-499 Rock, Limestone, white, very fine grain, no Fossils
small amount of grain size phosphate
- 499-501 Rock, Limestone, white to tan color, coarse texture
- 501-537 Rock, Limestone, fine grained, phosphate, little
sand, rock gray to cream color
- 537-539.5 Rock, Limestone, coarse texture
- 539.5-569 Rock, Limestone, very fine grain, gray to cream color
- 569-570 Rock, Limestone, cream color, Fossils present
- 570-575 clay, green calc material in clay
- 575-583 Rock, Limestone, fine grain cream color, phosphate & sand
- 583-590.5 clay, green and tightly packed
- 590.5-606 Rock, Limestone, cream color, sandy with phosphate
- 606-609 clay, green tightly packed
- 609-618.4 Rock, Limestone, sandy, cream color, some phosphate
- 618.4-629 Sandstone, dark gray to green
- 629-634 Rock, Limestone, cream color, Fossiliferous
- 634-659 Rock, Limestone, sandy, cream color, small amt. phosphate
- 659-662 Rock, Limestone, cream color Fossiliferous, phosphate
- 662-669 Rock, dolomite, sandy & hard, phosphate grains
- 669-672 Rock, Limestone, white, brown dolomite mottled into Limestone
- 672-691 Rock, Limestone, cream to light gray color, Fossil hash
no sand, very little phosphate
- 691-701 Rock, Limestone, white to cream color, 687-Flow ²⁰SPM
Lots of ground up Fossils, good porosity



W 16814
SOUTH VENICE
SITE
T39S, R19E, S29

W16999

- 211-214 Rock, cream color, clayey very fine grained
214-218 clay, green hard packed
218-226 Rock, cream color very fine grained, phos. pebbles, clayey streak
226-248 Rock, with green clay, cream to gray colored rock, fine grained
248-273 Rock, cream colored lots of phosphate grains sandy *fast core
273-280 Rock, very fine grain, slow core, some phosphate, no fossils
280-292 clay, green, very tightly packed, rock lenses 289', 291'
292-298 Rock, gray, 40% grain size phosphate
298-308 clay, green sandy, phosphatic
308-313 Rock, limestone with clay in pockets, chalky, phosphatic
313-338 clay, dark gray, phosphate & sandy, some clay lite green color
fine sand and phosphate
338-348 Rock, white chalky, hard dolomite, brown 340-42
348-349 clay, cream color, soft
* 349-360 Rock, white with phosphate grains sandy
360-365 Rock, brown, vuggy
365-376 Rock, white, sandy, phosphatic, clay 366 soft green
376-400 Rock, friable, white, poor recovery producing water, very
fossiliferous some a tan color
400-457 Rock, white fine grained, sandy, small amount of phosphate
grains, some recrystallized zones, shell molds, core breaking up badly
457-483 Rock, white to a very lite tan color or gray, fine grained mostly
483-508 Rock, tan, gray clay, phosphate grains & sandy green clay
508-521 Rock, cream color, sandy, phosphate grains, gray clay lenses
521-560 Rock, very lite tan color, trace phosphate at 521, lots
of small fossils; soft, no sand present, less circ. at 538'
no back pressure, build up again at 552', very porous, crumbly
560-582 Rock, limestone tan, some very fine grained, fine fossils
582-731 Rock, limestone, lite tan, very soft, crumbly, fossil hash fast core
731-740 Rock, lite gray, soft, fossiliferous, lots of shells
740-743 Rock, brown crumbly, fine grained not as many fossils
743-762 Rock, dolomite, brown, very fine grained
762-775 Rock, tan crumbly, fine grained turning more fossiliferous
darker gray at 764
775-781 Rock, fine grained, tan color slower core than above (780-Ocala)
781-920 Rock, tan color mostly fine grained, some fossil zones
b + small

W16949

920-955 Rock, tan color, white elongated fossils embedded in rock, 946-46.5 hard dolomite layer, fossils become more prominent after 946', (920-61 high pressure)

955-961.5 Rock, tan, elongated fossils, stringers layered throughout rock, small segmented spiral shaped fossils common

961.5-970 Rock, tan soft, crumbly no fossils, fast core

970-973 Rock, tan dolomite dense, hard, no fossils

973-1000 Rock, tan dolomite, highly recrystallized, some shell imprints, small pores, good porosity

1000-1052 Rock tan dolomite, recrystallization, dense rock some very very hard 1031-33; 1038-42 1044-1045.5 cavity?

1052-1072 Rock, white softer than above

1072-1100 Rock tan hard, some to light gray color few fossils

[REDACTED]

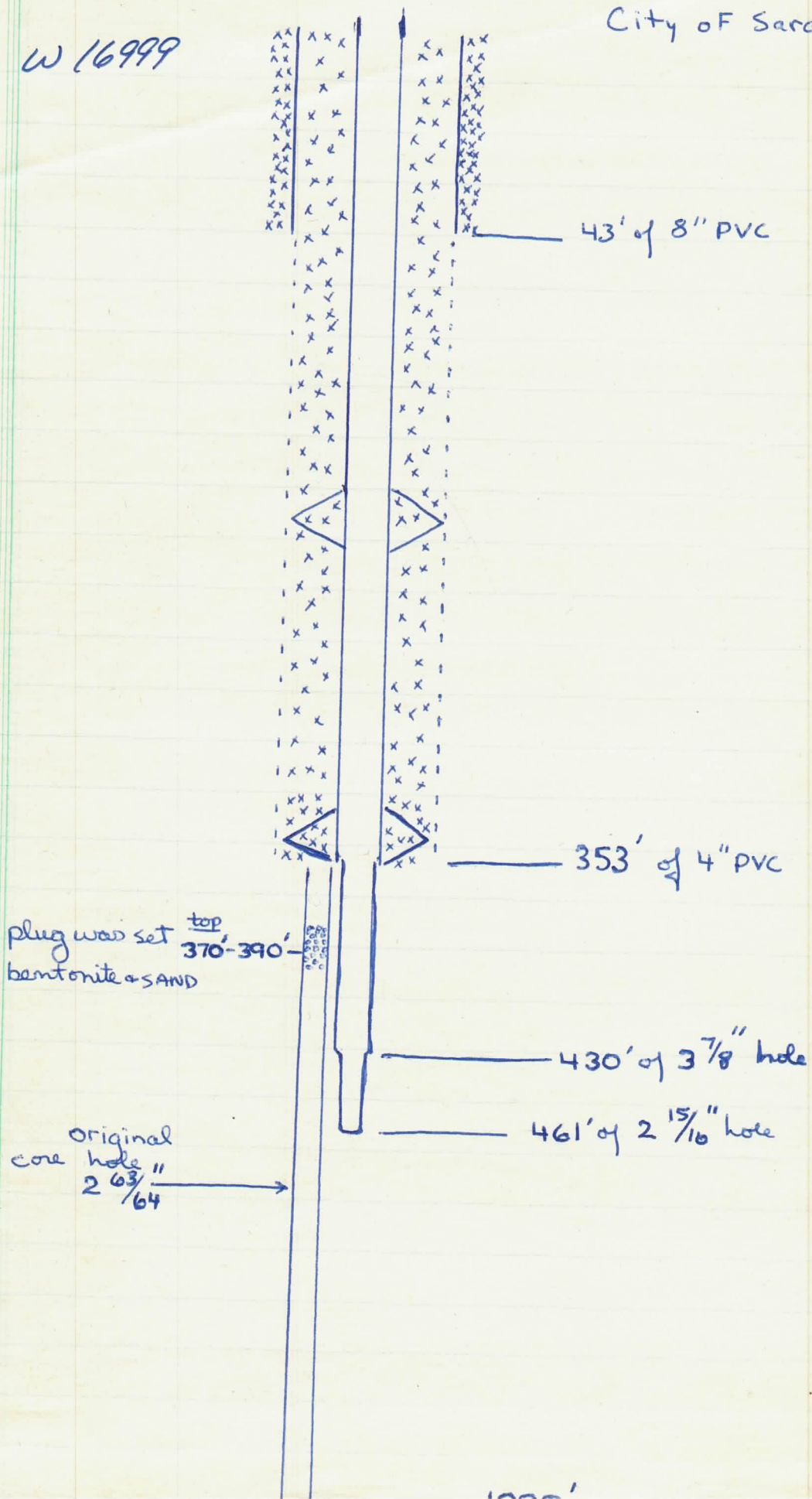
W 16999

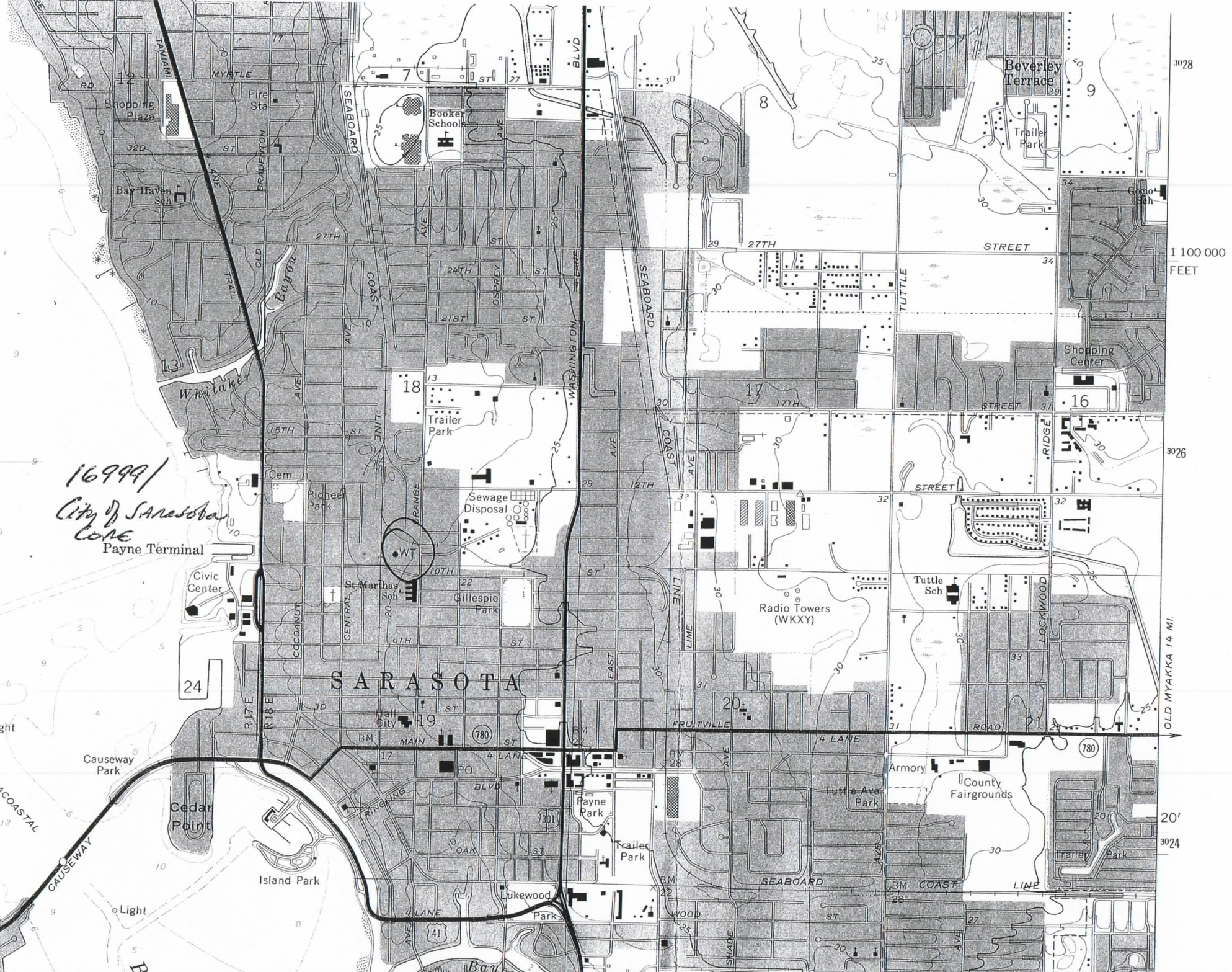
MAY

- TUES. 4th Run camera in hole. Trip in hole with $3\frac{7}{8}$ drill to 470'
- WED 5th Static 18' drill to 570', loss circ. at 540' regained
loss 562'
- THUR 6th static 13-9, pull drill pipe, run NQ and rig up for air lift
- MON 10th static 16' (*after pumped*) pump from 540' hole depth to 570', conduc. 2320, temp 29.5 pump approx 30 gpm
- TUES 11th static 16' drill to 810' soft 570-743, could circulate but taking lots of fluid (approx 50 gpm) ~~lost~~
- WED 12th static 16', hole clean to bottom, drill to 1010' loss circ 970' attempt water sample through rods cutting clogging up bit
- THUR 13th static 12', NO sample (water) trip out with $3\frac{7}{8}$ bit (static 16')
run core barrel core to 1020' no water sample with pump
(1010' of $3\frac{7}{8}$ " hole)
- FRI 14th static 19'-9" pump 2 hrs approx 50 gpm
after pump static 15'-9" 2' cuttings in bottom, core hole getting tight clean out with fluid okay core to 1090'
- | | |
|--------------|----------------------|
| conduc. 1850 | pump 990
T.D 1020 |
|--------------|----------------------|
- static 5' get sample, 12' of fill back
rigged air line blew from 1080' no solids! stuck in hole 1101 pull out, could not clean 1101'
- | | |
|---------------|-----------------------|
| conduct. 2700 | pump 1040
T.D 1090 |
|---------------|-----------------------|

W 16999

City of Sarasota





16999/
City of Sarasota
CORE
Payne Terminal

1 100 000
FEET

OLD MYAKKA 1/4 MI.

20'
3024

W17326

GEORGIA Pacific/ Chip Mill

SW/SW S33, T55, R20E

0-7	SAND	white brown organics	
7-12	SAND	yellow	<u>cuttings</u>
12-16	clay	white sandy	
16-22	clay	white	
22-32	Rock	yellow-orange-brown	
32-46	Rock,	yellow-brown, orange with white clay streaks	

30' of 4" PVC installed
open hole to 46'

7 bags portland

9' static pump 30gpm

completed 8/20/95

Wk W 16020/402
MACKERY CORE

2/87

- 0-1 organic mat. + sand
1-3 tan sand medium grain
3-9 white sand fine grain
9-14 sand brown, medium grain
14-21 sand brown to black medium grain, to coarse gravel at 21'
21-23 sand fine, black turning to greenish black clay at 23'
23-26 clay, gray, dry
26-31 rock, like tan color * 26' of 6" casing
31-33 clay tan
33-38 gravel coarse, tan clay black mud
38-48 clay tan, rock tan colored fossils present, clams
48-56 clay tan, sand
56-57 rock streak (Loss 1' 55-56)
57-72 clay dark gray, rock gray fossiliferous (Loss 2' 64-66'
72-82 clay tan to white very dry + tight (Loss 5' 67-72'
82-90 clay white + shells dry (Loss 2' 80-82'
90-96 Rock tan to grayish lots of fossils good core
96-106 Rock, gray clay streaks gray (Loss 3 1/2' 83 1/2-87
106-111 Rock - gray to tanish
111-115 rock gray mostly black clay (Loss 4 1/2' 96-100 +
115-119 rock gray mottled tanish lots fossils
119-124 tan rock (Loss 1' 113-114
124-150 gray rock, soft chalky streaks* (Loss 3' 120-123
150-156 1/2 gray rock soft few fossils (Loss 122' of 4" casing
156-166 HARD Dense rock non porous 132-135 loss -3
166-169 tan crystalline rock vuggy 139-148 loss 160 1/2 - clay
169-174 tan rock becoming gray - soft 156 1/2 - 59 loss 5' + sand
174-185 Soft rock clay streaks 174 clay streak gray green
185-194- hard dense tan rock

179 loss
175 clay

- 194-210 - white rock, soft chalky, no fossils (Loss 188-190 clay)
- 210-213 - cream to light tan rock, few fossils (Loss 199 1/2-202 soft rock)
- 213-220 - tan to gray, hard crystalline, breaking up white coning (Loss 204-207, soft rock, 208-209 1/2 soft rock)
- 217 1/2-219 1/2 - CAVITY rock rubble in bottom (dark gray/black rock)
- 219 1/2-224 - tan to cream colored rock with white clay streaks present
- 224-227 - CAVITY white clay in bottom
- 227-237 tan to cream rock hard to core, breaking up
- 237-239 tan rock hard core 239 - clay (green) streak
- 239-253 rock white clay streaks frequent (Loss 240-42 clay)
- 253-255 soft white
- 255-262 white medium hard dense
- 262-271 white rock clay (green, to gray, more prevalent)
- 271-273 green clay
- 273-290 white crumbly rock (much water) ^{and} fossiliferous section
- 290-292 tan dark colored "hard" dense no fossils (white clay streak on top)
- 292-304 green clay, some white rock hard core
- 304-310 tan rock porous very little clay
- 310-312 cream rock dense hard core
- 312-330 cream rock more clay
- 330-334 clay green common, with rock layers
- 334-353 clay green to gray rock, cream colored
- 353 1/2-355 1/2 - hard tan rock
- 356-357 - black clay
- 357-360 - hard tan rock
- 360-362 - white clay (Loss 360 1/2-362 clay (white))
- 362-375 soft porous rock fast core white
- 375-384 white chalky less porous some fossils

342-350
clay

386-395 light tan hard, zero porosity ~~390~~^{1/2} - 391^{1/2}
cavity
loss 393-394 394 - 395

395-402 soft crumbly white to tan, cross layering brown
at 398-99

WK W16053/
NATIONAL FOREST #1
T2S, R2W, SEC 27 NE1/4SE1/4

- 0-2 SAND, black, organic, coarse
2-6 SAND, brown, coarse to medium grain
6-10 sand, white sand
10-13 sand, brown, some clay at bottom
13-14.5 clay, gray
14.5-16 sand, white to brown
16-40 sand, black to dark brown (* LOSS 18-21 SAND) (* LOSS 23-27 sand)
40-43 sand, brown, clay, grayish
43-54 clay, white, rock fragments
54-66 rock, lime rock, white clay
66-78 rock, lime rock with shell fossils
78-96 rock, very dense, fine grain no fossils
96-137 rock, gray, clay white to gray, green
137-150 rock, lime rock dense, clay green 140.5-141
150-166 rock, white, chalky
166-175 rock, dense white, fine grain
175-181 rock, dolomite, brown clay streaks (180, 174, 172.5)
181-200 rock, white dense, more clayey at bottom
200-210 rock, dolomitic hard, some vugs (206 clay)
210-218 rock, hard brown, brown clay at bottom
218-250 rock, clayey to dolomite, (225-233 clay) (239-41 clay)
(244-246 clay gray to green)
251-256 rock, dolomite with pores (clay streak 254)
256-282 rock, white carbonate, clayey
282-318 rock, lime rock white soft
318-325 rock, dolomite hard, dense
325-345 rock, dolomite, soft crumbly
345-360 rock, dolomite hard, streaks, soft succrose

360 - 410 rock , soft crumbly, succrosin brown (403 hard)

410 - 458 rock dolomite soft to hard brown, crumbly

435 - 443 hard + breaking badly

458 - 460 CAVITY

460 - 464 rock brown dolomite

464 - 466 rock cream coloured soft

466 - 470 rock brown crumbly

W16887

Wakulla Springs

SEC 12 T 35, R 1 W NW/SW

- 0-4 Sand, gray turning white
4-5 Sand, white, gray and redish clay
5-12.5 clay, white, rock Fragments, white
12.5-23 Rock, Fragments, white, grainy, green clay
23-31.5 Rock, Limestone, off white, fossils present
31.5-47 Rock, Limestone white, green clay lenses
47-58.5 Rock, Limestone, white green clay
58.5-61 clay, green, NO RECOVERY
61-80 Rock, dolomitic streaks, Limestone and green clay lenses
80-104 Rock, Limestone cream color to gray sandy, casts + molds pr
104-206 Rock, Limestone, grainy soft, few visible Fossils,
Lite tan color to cream color

4" PVC WELL

73' of casing

200' of open hole

9' static level

completed

12/30/92