Special Publication; SJ 84-SP3

Annual report on uncontrolled free-flowing artesian wells: 1984

Free-flowing well plugging program

Ву

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Water Resources Department

St. Johns River Water Management District

Palatka, Florida

December 1984

Project Number 20 018 02

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IN TRODUCTION

Abandoned uncontrolled free-flowing wells are wasting Florida's natural fresh water resources. Many of these wells are old wells, drilled as many as 50 years ago for domestic, agricultural and mosquito control purposes. These wells have not been used or maintained and have been allowed to flow uncontrolled for years. Uncontrolled free-flowing wells are a cause for serious concern for three reasons: (1) wasting of the water resource, (2) interaquifer contamination, and (3) danger of salt water intrusion due to lowered artesian pressure.

In 1983 the Legislature of the State of Florida enacted legislation (Water Quality Act of 1983), which addresses the concerns of free-flowing wells. Part IV of the "Water Quality Act of 1983" defines an abandoned artesian well as a well without proper flow control at or below the land surface or that does not meet current well construction standards. Also, a well in which the use has been permanently discontinued or cannot be used without having an adverse impact on an aquifer which is presently a source of drinking water or may be a source in the future.

The "Water Quality Act of 1983" also directs the water management districts to prepare an inventory of these wells known in their respective districts. Each of the water management districts are to submit their inventory and a detailed work plan for plugging these wells to the Department of Environmental Regulation by January 1st of each year until 1992. The water management districts have submitted initial inventories and work

plans in January, 1984 and will continue to submit annual reports until 1992 or until all inventoried wells have been plugged:

PURPOSE AND SCOPE

This document was prepared for presentation of related inventory data and technical information to comply with the requirements of Part IV of the "Water Quality Act of 1983." The content of this document is to serve as the second annual report to the Department of Environmental Regulation of the free-flowing well inventory and the District's work plan for controlling or plugging the inventoried wells. Information contained in this document follows the general guidelines that were provided by the Department of Environmental Regulation (Appendix A). This document was also prepared for public distribution to show the District's progress in pursuing the problems of uncontrolled free-flowing wells and to provide effective planning for future work in this field.

PREVIOUS WORK

An original inventory of uncontrolled free-flowing wells was conducted during the 1950's by the Florida Geological Survey, (Healy 1978). There were approximately 1,000 of these wells within the St. Johns River Water Management District (Figure 1). Since the original inventory, the surface discharge of many free-flowing wells has been controlled but may cause an undesirable condition if allowed to flow uncontrolled beneath the land surface.

In 1981 the St. Johns River Water Management District organized and initiated a free-flowing well plugging program. Since organization, the program has been attentive to three major objectives: (1) public awareness of the problems related to uncontrolled free-flowing wells and the program's objectives, (2) inventorying and data collection of the wells reported, and (3) plugging or controlling the flow of the wells. The program's efforts are concentrated in areas of the District where wells penetrating the Floridan aquifer are known to discharge at the land surface (Figure 2).

The District has established contacts in federal, state, county and local government agencies to obtain well locations. In cooperation with some of the agencies, the District has circulated literature explaining the well plugging program. An original press release (1981) was sent to over 30 newspapers requesting public input of free-flowing well information. Since the original press release several newspapers have printed subsequent articles and local television news broadcasts in

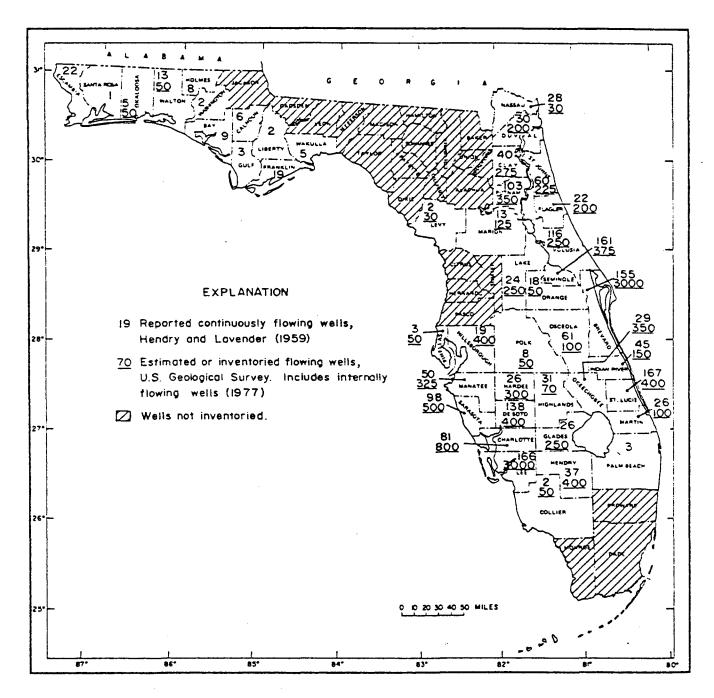


Figure 1. Number of Free Flowing Wells in Each County (Healy 1978)

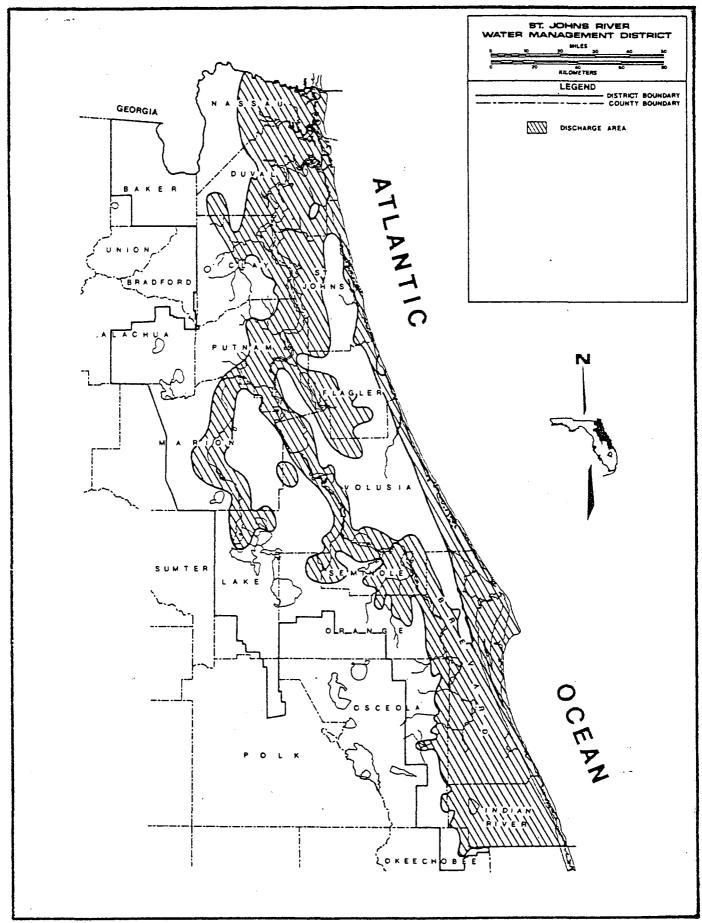


Figure 2. Generalized Area of Artesian Flow

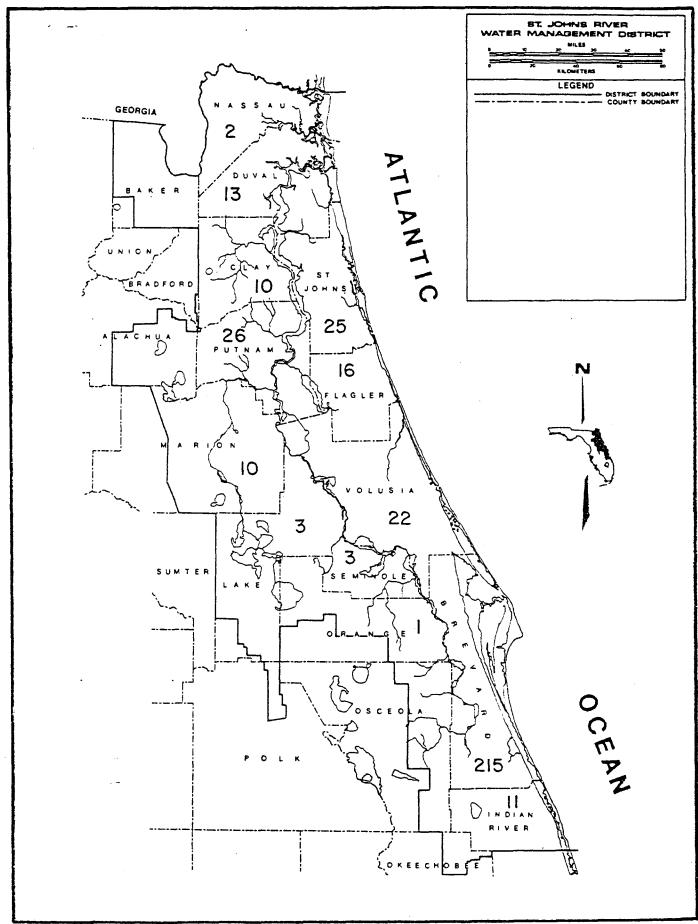


Figure 3. Number of Free Flowing Wells Inventoried in Each County

Jacksonville and Melbourne (areas of largest density of flow wells) have addressed the concerns of free-flowing wells. From these combined efforts 357 wells have been reported and inventoried (Figure 3). The wells were field checked by District personnel and data collected was entered into the District's computer system.

The next step was to prioritize areas that were affected by the wells. Top priority was given to the barrier islands of south Brevard and north Indian River counties. Here a lense of fresh water is density stratified over poorer quality water. Water discharged from free-flowing wells is the largest local stress on the lense. In cooperation with Brevard County, 15 wells have been plugged in this area in 1983 conserving approximately three million gallons per day of the fresh water resources. By plugging the wells the life of the fresh water resource has been prolonged.

Second priority was given to an abandoned oil test well (Bethesda Retirement Home Project) discharging approximately 1.7 million gallons per day. By reconstructing this well, a useful controlled well has been developed.

As wells that are inventoried are plugged or when wells are added to the inventory and as more hydrologic and geologic information becomes available, the priority has been updated accordingly.

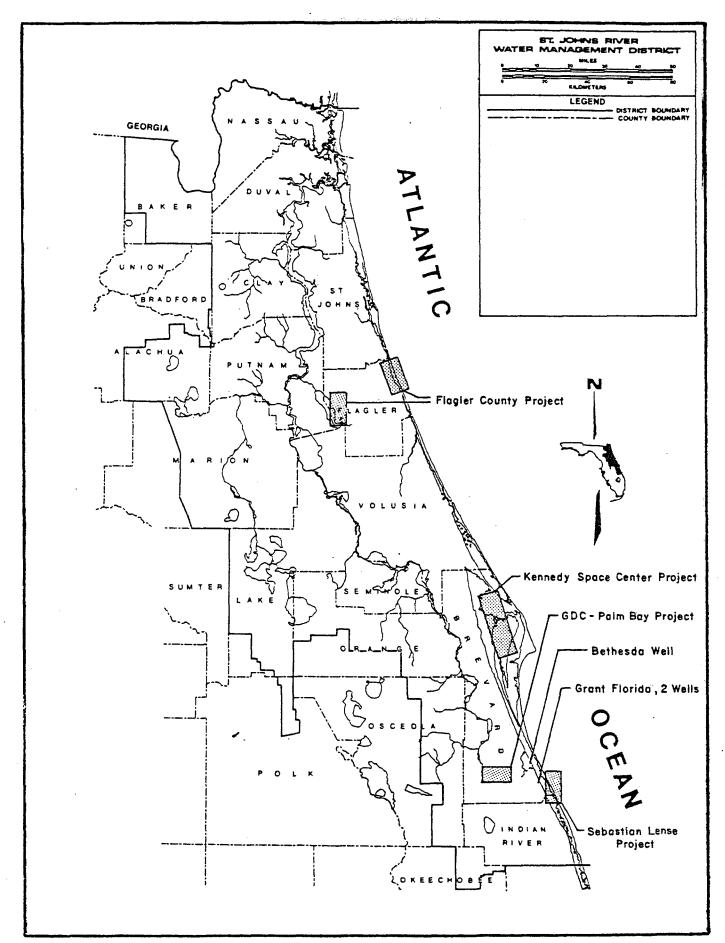


Figure 4. Locations of Free Flowing Well Plugging Projects

CURRENT STATUS

In 1984 our plugging efforts were concentrated in Brevard, Flagler, and Volusia counties. These are areas where salt water intrusion and interaquifer contamination of surficial aquifers possess the most serious threats to limited fresh water resources. Fourteen wells have been plugged in these areas over the year conserving approximately 4.7 million gallons per day that has been wastefully flowing uncontrolled.

Specific projects that were completed in Brevard County include plugging five wells on the Kennedy Space Center, seven wells in Palm Bay (GDC Development) and two large diameter wells in Grant that were discharging approximately 1000 gpm.

Communication channels with various local, Agricultural Stabilization and Conservation Service (ASCS) and Soil Conservation Service (SCS) offices have been re-established. Currently three separate projects with a total of ten wells have been set up to plug the wells with federal funding through an inter-agency cooperative program involving the ASCS, SCS and the water management districts.

WELL PLUGGING PROGRAM

Inventory

As of January 1, 1984, St. Johns River Water Management
District has received reports of approximately 400 uncontrolled
free-flowing wells. Each well reported is (if accessible) field
checked by a District hydrologist or an engineering technician.
The wells are photographed, mapped and assigned their respective
latitude and longitude coordinates. Water quality samples from
each well are collected and analyzed. The rate of flow is
determined. This information is then stored on the data base of
the District's computer system (Appendix C). When specific
geological information or details of well construction and condition are necessary, the well is geophysically logged by the
District.

Areas where future extensive inventories are planned include Port Malabar Development in Palm Bay, Indian River County, and further work in Brevard County. Coordination has begun with hydrologists and engineers to initiate an extensive search for an inventory of uncontrolled free-flowing wells at the Canaveral Air Force Base on Cape Canaveral. These are regions wherein hydrologic and geologic conditions are such that wells in these areas rank high in priority.

Priority

A priority system has been established in the District's well plugging program to rank groups of wells according to the impact of the wells on the water resources of the area. The

criteria considered when grouping wells include; the quality of water being discharged or involved in interaquifer flow, the quantity of the water, the well construction, and the physical conditions of the well. The District has identified and ranked eight groups which would be indicative of these criteria. When specific hydrologic information is evaluated for a particular well or group of wells, the wells are prioritized accordingly. The priority groups established are as follows: #1 is the highest priority, #8 is the lowest priority.

- Good quality water in limited supply with no recharge (an isolated lense of fresh water).
- 2. Good quality water in large supply with no recharge.
- 3. Good quality water in limited supply with recharge.
- 4. Poor quality water contaminating fresh shallow aquifers (areas dependent on shallow aquifers for potable water supply will have higher priority).
- 5. Poor quality water directly contaminating fresh surface water bodies (areas that exhibit rapidly increasing chloride levels will have higher priority).
- 6. Good quality water in large supply with recharge.
- 7. Poor quality water contaminating shallow aquifers exhibiting high chloride levels.
- Poor quality water directly contaminating brackish or salt water surface water bodies.

Plugging Methodology

SJRWMD's first step in the well plugging process is to set up communications with other involved organizations or parties (i.e. government agencies, property owners, and special interest groups). Through communications with the respective organizations and parties, explanation of the free-flowing well program and discussion of the legalities, technical information, procedures, objectives and finances of a particular well plugging project can be initiated. By obtaining a mutual understanding of these aspects of the project, an effective and feasible work plan can be devised and agreed on.

An explanation of the importance and priority of a particular plugging project is first presented. This is to encourage interest and cooperation with the respective parties involved and to minimize objections of parties opposed to the proposed project. Legal procedures are discussed so that the District's statutory authority and responsibilities (related to uncontrolled free-flowing wells) can be understood and so that enforcement action can be set forth when appropriate. Cost estimates, actual costs from previous projects, and financial responsibilities of the respective parties are considered. When cost-sharing and other provisions are established, a cooperative agreement for the funding and responsibilities of the project is usually executed (Appendix D).

Detailed specifications for the project are prepared in accordance with SJRWMD Rules Chapter 40C-3 Revised Edition. These detailed specifications include contract procedures and forms,

technical specifications and detailed plugging specifications (Appendix D). Permitting procedures are carried out when applicable.

Types of Plugs

The condition of the well, the hydrologic situation of the area influenced by the well, and the financial considerations dictate one of three types of plugs commonly used. If the well does not present any water quality problems or depletion of one aquifer to another through interaquifer flow, the most efficient way to preserve the quantity of the water resource being wasted is to install a workable valve.

Uncontrolled free-flowing wells that are in high priority areas usually need to be plugged by one of the other two types of plugs. When it is necessary to stop the flow of the well at the source, plugging the well by backfilling or the QWIP (Quality of Water Improvement Program, Southwest Florida Water Management District) plug methods are considered. The backfilling method is a conventional method used to grout the entire borehole. The grout material is placed in the borehole through a tremie pipe. The grouting operations will proceed in stages as the tremie pipe is raised out of the well. The depth at which the tremie pipe is placed and the amount and type of grout mixture pumped will be specified either in the detailed specifications or by the District hydrologist at the job site.

The term QWIP plug refers to the QWIP bridging plug (schematically shown, Figure 5, and cross-section showing the

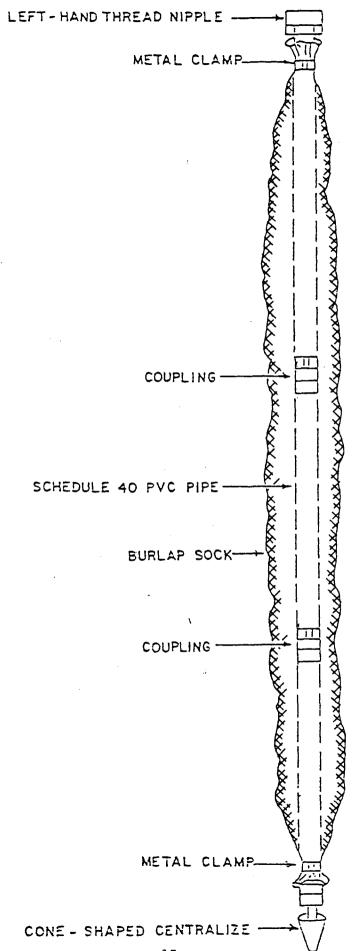


Figure 5. QWIP Plug

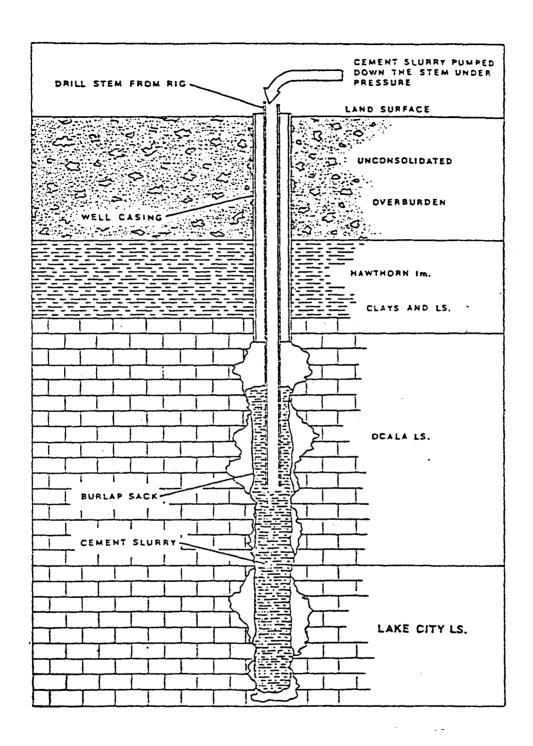


Figure 6. Generalized Cross Section Showing the Placement of the Plug within the Aquifer.

placement of the plug in the borehole, Figure 6.) The plug is assembled as it is lowered into the well. The sock (burlap sack) is clamped at the bottom and top of each joint contained within the sock. The pipe, with threaded adaptor at the top, is perforated by seven (7) holes of 1/2 inch diameter from one (1) to three (3) feet above the bottom to allow cement slurry to flow from the pipe into the sock. A cone shaped centralizer is affixed to the bottom of the pipe. The top of the plug is connected to the contractor's tremie by coupling and a nipple with appropriate diameter right-hand threads on one end and coarse left-hand threads on the other. This left-hand threaded joint allows a positive disconnect of the tremie pipe from the plug. The plug assembly is lowered to the prescribed depth on the contractor's tremie. When set to depth specified, the QWIP plug will be filled with the cement grout mixture called for in the detailed specifications or as ordered by the project manager on the job site.

PROPOSED SCHEDULING

According to the District's estimates there are approximately 600 uncontrolled free-flowing wells. Over the first four (4) years of the program, 30 wells have been plugged and sixty percent of the estimated number of the existing free-flowing wells have been located and inventoried. Throughout the eight (8) remaining years of the program (until 1992) efforts will be continued to locate all of the existing uncontrolled free-flowing wells in the District. All of the methods previously mentioned will be utilized in the District's effort to locate the wells.

Well plugging scheduling will be directed, as funding is available, to plug 72 wells a year. This will equal the total amount of estimated free-flowing wells to be plugged in eight (8) years (by 1992). The District, when feasible, will seek cost sharing in cooperation with concerned land owners, special interests and government agencies. The priorities established by the well plugging program will be considered for the scheduling of the free-flowing wells to be plugged with District funds.

Currently 35 wells are tentatively scheduled to be plugged, in 1985. Twenty-five of these wells are located in high priority areas of the Barrier Islands, cities of Melbourne, Cocoa, Cocoa Beach, and Palm Bay in Brevard County and approximately ten wells are scheduled to be plugged in Flagler and Volusia counties with funds encumbered from last year's budget. Scheduling of wells to be plugged this year will continue as funding is available.

COSTS

Tables 1, 2, 3, 4, and 5 from the initial report on the free flowing well plugging program (SJ 84-3) have been adjusted or updated according to cost incurred in 1984. These tables have been prepared to show actual plugging cost in each of the specific projects and to reevaluate the averages and predicted future cost in the initial report. The Cost Section (including Tables 1, 2, 3, 4, and 5) from the initial report has been included in Appendix E.

TABLE 1. ACTUAL PLUGGING COST

1984 Well Plugging (16 wells)	
Total Cost	\$29,261.94
Average Cost Per Well	1,828.87
Kennedy Space Center Project (5 wells)	
Total Cost	\$ 3,575.95
Couch Pumps - Grant, FL. Project (2 wells)	•
Total Cost	\$17,633.57
General Development - Palm Bay Project (7 wells)	,
Total Cost	\$ 8,176.20
Combined Cost From All Wells Plugged to Date	\$58,647.66
Average Actual Cost Per Well (30 Wells)	1,954.92
Average Accuar Cost Fer Werr (50 Werrs)	1,334.32

TABLE 2. COST TO SJRWMD FOR PROGRAM SUPPORT

Fiscal Year 1980/1981 Fiscal Year 1981/1982 Fiscal Year 1982/1983 Fiscal Year 1983/1984 Subtotal Additional Administrative Cost (12%)	\$12,725.68 47,337.85 36,440.25 <u>43,645.42</u> \$140,149.20 <u>16,817.90</u> \$156,967.10
Less Contractual Plugging Cost (Table 1)	58,647.66
Total Amount Spent for Free Flowing Well Plugging Program Support	\$98,319.44
Average Cost Per Year	\$24,579.86

TABLE 3. ESTIMATED AVERAGE COST TO SJRWMD PER YEAR UNTIL 1992 FOR PROGRAM SUPPORT

		for First 4 Years (From Table 2) t Per Year (From Table 2)	\$98,319.44 24,579.86
Project	ed A	verage Cost Per Year Until 1992*	
		1984/1985	\$26,054.65
11	Ħ	1985/1986	27,617.93
n	Ħ	1986/1987	29,275.01
11	Ħ	1987/1988	31,031.51
Ħ	Ħ	1988/1989	32,893.40
Ħ	n	1989/1990	34,867.00
Ħ	Ħ	1990/1991	36,959.02
n	11	1991/1992	39.176.56
Total o	f th	e Average Yearly Support Costs (8 years)	\$257,875.08
Estimat	ed C	ost Per Well (570 wells)	\$452.41

TABLE 4. ESTIMATED COST FOR ACTUAL PLUGGING (BASED ON AVERAGE COST FROM TABLE 1)

Total Number of Wells to Plug Number of Wells to be Plugged Per Year (Years) Average Cost Per Well (Table 1) Average Cost Per Year	570 72 \$ 1,954.92 140,754.24
Projected Average Cost Per Year Until 1992*	:
Fiscal Year 1984/1985	\$149,199.49
Fiscal Year 1985/1986	158,151.46
Fiscal Year 1986/1987	167,640.55
Fiscal Year 1987/1988	177,698.99
Fiscal Year 1988/1989	188,360.92
Fiscal Year 1989/1990	199,662.58
Fiscal Year 1990/1991	211,642.33
Fiscal Year 1991/1992	224,340.87
Estimated Total Cost for Plugging 585 Wells	
in 9 Years	\$1,476,697.19
Estimated Cost Per Well (570 Wells)	\$2,590.70

^{*}Indicated, included 6% inflation rate.

TABLE 5. ESTIMATED TOTAL PROGRAM COST

Fiscal Year	Estimated Program Support Cost (Table 3)	Estimated Cost for Plugging (Table 4)	Estimated Total Program Cost
1984/1985 1985/1986 1986/1987 1987/1988 1988/1989 1989/1990 1990/1991 1991/1992	\$26,054.65 27,617.93 29,275.01 31,031.51 32,893.40 34,867.00 36,959.02 39,176.56	\$149,199.49 158,151.46 167,640.55 177,698.99 188,360.92 199,662.58 211,642.33 224,340.87	\$ 175,254.14 185,769.39 196,915.56 208,730.50 221,254.32 234,529.58 248,601.35 263,517.43
		Total Cost	\$1,734,572.27
	Average To	otal Cost Per Well	\$ 3,043.11

CONCLUSION AND SUMMARY

According to United States Geological Survey References (Healy, 1978), there are approximately 1,000 artesian flowing wells within the St. Johns River Water Management District.

Since the USGS's inventories and estimates, many of the wells have been abandoned or brought under control (as far as surface discharge) for future use by the owners, because of the developed concern over the years. When not abandoned properly, free flowing wells may continue to have a grave effect on the water resources of the area due to interaquifer contamination. Wells that are capped and not reported become increasingly difficult or impossible to locate and properly abandon. The District will continue to work with private well owners on request to evaluate suspect wells for remedial action.

The inventory of 357 free flowing wells in the St. Johns River Water Management District is estimated to be 60 percent of the actual number of wells existing that would meet the program's responsibilities and objectives. The District's Well Plugging Program is continuing an extensive search for these wells through increasing efforts in public awareness and cooperation. To date the District has plugged 30 wells with a total discharge of approximately 9.4 million gallons per day. The District is increasing the scheduling of wells to be plugged to a maximum number, as each year's budget allows. Evaluation of the Program's priority criteria will be considered and followed to insure effective progress in protecting the water resource from problems resulting from uncontrolled free flowing wells.

REFERENCES

- Edwards, S. Jr., 1983, Technical Publication SJ 84-3, Report on Uncontrolled Free Flowing Artesian Wells Free Flowing Well Plugging Program.
- Healy, H. G., 1978, Appraisal of uncontrolled flowing artesian wells in Florida, U. S. Geological Survey WRI 78-95, 26 pages.
- Munch, D. A., 1978, Improvement of water quality through a cooperative well plugging program, St. Johns River Water Management District.
- "Water Quality Act of 1983"

APPENDICIES

APPENDIX A

OUTLINE PROVIDED BY DEPARTMENT OF ENVIRONMENTAL REGULATION

('Subject Headings' and Page Numbers correspond with

respective information in this document.)

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2600 BLAIR STONE ROAD BALL AHASSEE, FLORIDA 32301-8241



BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL

Mr. Doug Munch St. Johns River Water Management District Post Office Box 1429 Palatka, Florida 32077

RE: Artesian Well Plugging Workplan

Dear Mr. Munch:

Part IV of the Water Quality Assurance Act directs the five water management districts to prepare inventories and workplans outlining methods and costs of plugging all abandoned artesian wells in their district by January 1, 1992. The water management districts shall submit an initial workplan to the Secretary of DER by January 1, 1984.

Enclosed is a draft format for the workplan. Please review and let me know if you have any serious problems with the contents. The level of detail and length of each water management district workplan will be proportional to the number of wells and the existence of an active well plugging program. In those districts without a district-wide inventory, cost estimates may have to be given for both known and estimated number of wells.

Another topic we need to discuss is the use of the original inventory. I have the original well schedules (in pencil) complete with photographs, wellhead diagrams and hand drawn maps from which Information Circular No. 21 was prepared. These statewide records have remained intact since 1958, so I am reluctant to start mailing originals all over the state.

A meeting in Tallahassee with all water management districts can be arranged, if you feel there is a need. Suggested dates are November 8, 9, 15, or 16. Please let me know if you would prefer to meet or discuss any problems by telephone.

Sincerely,

Leslie Bell

Leslie

Environmental Supervisor

Groundwater Section

LB/cs
Enclosures
cc: Rodney DeHan

Greg Parker Howard Rhodes John Wehle Ed Mossier/SFWMD

A-1

Format for Artesian Well Plugging Workplan

I.	Introduction		etion	DOCUMENT SUBHEADINGS Page				
			ef assessment of existing problem ef summary of any existing program	'INTRODUCTION''CONCLUSION AND SUMMARY' 2	1 20			
II.	Inv	Inventory						
	Α.	Tabl	ults of 1983 Inventory presented in table Le l and Table 3 from the Florida Geologic cular No. 21 (examples attached) can be us	al Survey Information	-1			
	в.	Description of methodology used in obtaining initial inventory, including types of sources contacted, publicity, and field verification methods 'Inventory'9						
	c.	Loca	ation and Owner of each abandoned well	C-	-1			
			Present by county, alphabetically by owne If inventory is already on data base, exisubmitted					
	D.	Prop	posed Methodology for Updating Inventory	'Inventory, CONCLUSION AND SUMMARY'	9. 20			
		1.	Location techniques		-,			
		2.	Field verification					
		3.	Public notification techniques					
III.	Wel	ll Plu	ugging Priority Schedule					
	A.	Crit	teria to be used to develop schedule:	'Priority'	9			
		1	Condition of casing					
			Presence of operable valve					
			Water quality in well and receiving aquif	er				
		4.						
			Diameter of well and flow volume					
		6.		esian well				
	в.	Prop	posed Schedule	'PROPOSED SCHEDULING'	12			
		1.	Individual wells may be listed for the wa with smaller inventories. Types of wells may be listed for water management distri	with highest priority				

Format for Artesian Well Plugging Workplan Page Two

B. Other

IV.	Plu	gging Methodology	DOCUMENT SUBHEADINGS	Page			
	B. C. D.	Description of any inspection or verifi Timetable for plugging completion, whic	'Plugging Methodology' 'Types of Plugs' cation 'COSTS'	11			
v.	Costs						
	А.	costs and actual plugging costs 'COSTS'16					
		 Staff time for locating wells Staff time for well assessment and schedule Staff time for resolving any legal Staff time for preparing and awardi Staff time for inspection, updating Total estimated cost 'Per well' cost times number of district 	difficulties ng plugging contract of inventory				
	c.	1. Estimated average plugging cost per well. Wells may be classified into two or three depth groups 2. Total estimated plugging cost 1. 'Per well' cost times number of known or estimated wells in district					
VI.	Rec	commendations					
	A. Need for changes or expansion of existing programs						

APPENDIX B PUBLIC INFORMATION

...putting a cap on —

FREE FLOWING WELLS

St. Johns River Water Management District

Brochure produced by St. Johns River Water Management District: A Brief Explanation of the Problems of Uncontrolled Free Flowing Wells and the District Well Plugging Program.

WANTED

LOCATION OF UNCONTROLLED



REWARD

Reducing the waste of our groundwater resource

MODUS OPERANDI

Uncontrolled free-flowing wells are often unused or abandoned. They are sometimes used for stock watering, for crop irrigation, or for mosquito control purposes.

OFFENSES

Flowing well water is wasted when allowed to flow uncontrolled year-round.

Since 1953, all artesian wells are required to have a valve or other device to control the flow of water and prevent the water from going to waste (FLA. STATUTES CHAPTER 373.206, .209. CITY ORDINANCE CODE CHAPTER 625.301, .307).

CVLL

633-3419

DEPARTMENT OF HEALTH, WELFARE AND BIO-ENVIRONMENTAL SERVICES WATER CONSERVATION

515 W. 8th STREET
JACKSONVII.LE. FLORIDA 32206



LOCATION OF UNCONTROLLED



REWARD

Reducing the waste of our groundwater resource
Reducing the contomination of our fresh surface water
bodies from brockish well water

MODUS OPERANDI

Unconfrolled free-flowing wells are aften unused ar about daned. They are sometimes used for stock watering, for crap firigation, or for masquito control purposes.

OFFENSES

Flowing well water which is at brackish quality can polluts fresh surface waters, such as the St. Johns River Flowing well water which is at first quality is wasted when allowed to flow uncontrolled year-round.

Since 1953, all artesian wells are required to have a valve or other device to contal the flow at water and prevent the water form quing to waste IFLA. STATUTES CHAPTER 373.206, 209).

CALL

Brevard County Water Resources Department at 453-9515, or stop by the Herritt Island Courthouse

Fig. proposed of the parameter was interest property 200 proming group from the SE SE SE manmeter of a proper demand order on a property of the property of th

Wanted Poster Produced by Cooperating Government Agencies in the District. (Reduced from 8-1/2" X 14" Originals)

APPENDIX C INVENTORY OF FREE FLOWING AND PLUGGED WELLS

TALLY SHEET FOR RELATED INVENTORY DATA

	Number	Chl	loride c	ontent (mg/	1)		. Pri	ncipal u	ses of we	11s	
County	of Wells	0-250	251-500	501-1000	>1000	Domestic	Stock	Irri- gation	In- dustrial	Rec- reation	Unused
Brevard	215	18	23	92	82	5	23	44	4	4	135
Clay	10	10	0	0	0	3	0	0	0	1	6
Duval	13	13	0	0	0	0	0	0	0	0	13
Flagler	16	0	0	3	13	0	4	0	0	0	12
Indian River	11	1	5	5	0	1	0	5	0	1	4
Lake	3	1	1	0	1	1	0	0	0	1	1
Marion	10	10	0	0	0	0	0	0	0	1	9
Nassau	2	2	0	0	0	1	0	0	0	0	1
Orange	1	0	1	0	0	0	0	0	0	0	1
Putnam	26	21	2	2	1	. 0	1	0	0	1	24
St.Johns	25	15	5	0	5	0	0	0	0	0	25
Seminole	3	1	2	0	0	0	0	0	0	2	1
Volusia	22	6	0	8	8	1	1	0	1	0	19
Totals	357	98	39	110	 110	12	29	49	5	11	251

OWNER	WELL	STATUS	WELL USE	L A T DE MI SE		CASE WELL DEPTH DEPTH	WELL (CHLORIDE MG/L	SAMPLE DATE	GEPH LOGS
					1					
A.L. READDY		FLOWING	UNUSED	28 16 48	80 40 22	126 248	4.00	1022.00	Ø 4/16/81	YES
ALLIS-CHALMERS CORP.		PLUGGED	UNUSED	27 55 53	89 31 38	- 893	12.00	-	-	-
AQUIRINA	BR437	PLUGGED	UNUSED	27 55 20	80 29 37	195 439	4.00	250.00	Ø9/14/81	YES
AQUIRINA	BR438	PLUGGED	UNUSED	27 55 32	80 29 21		3.00	-	-	-
ATLANTIC RIDGE CORP	BR90*	FLOWING	UNUSED	27 55 25	80 33 35		4.00		Ø 2/24/81	-
BEACHWOODS	BR227	PLUGGED	UNUSED	28 1 53	80 32 31		1.50		Ø3/18/81	-
BETHESDA RET HOME	BR17*	PLUGGED	UNUSED	28 1 35	8Ø 35 16	330 1360	4.00		Ø5/21/47	YES
BLISS (HELM)	BR433	FLOWING	IRRIGATION	28 15 25	8ø 39 5ø		6.00	1949.99	0 9/08/81	-
BOY SCOUTS-ORLANDO	BR100	FLOWING	RECREATION	27 57 19	89 35 13		4.09	•	-	-
BREVARD CO.	BR386	FLOWING	UNUSED	28 21 23	80 40 17		4.00		Ø4/Ø9/81	-
BREVARD CO. DIST 3	BR1Ø1	FLOWING	UNUSED	27 57 10	89 35 43	- 316	4.00		Ø5/Ø5/75	-
BREVARD CO. M. C.	BR2Ø9	FLOWING	UNUSED	28 24 17	80 41 35		2.00		Ø7/3Ø/79	-
BREVARD CO. M. C.	BR394	FLOWING	UNUSED	28 17 46	80 40 27	- 290	4.00		94/16/81	-
BREVARD CO. M.C.	BR233	FLOWING	IRRIGATION	28 17 32	80 41 55		4.00		Ø4/11/8Ø	-
BREVARD CO. M.C.	BR388	FLOWING	IRRIGATION	28 20 17	80 41 6		4.00		Ø 4/2 Ø /81	-
BREVARD CO. M.C.	BR389	FLOWING	IRRIGATION	28 18 16	80 40 24		6.00		Ø8/24/78	-
BREVARD CO. M.C.	BR4Ø6	FLOWING	UNUSED	28 23 27	80 40 34	- 260	4.00		Ø7/3Ø/79	-
BREVARD CO. M.C.	BR412	FLOWING	IRRIGATION	28 Ø 53	80 32 14		3.00		Ø6/Ø8/81	-
BREVARD CO. M.C.	BR43Ø	FLOWING	UNUSED	28 21 52	80 41 17	82 152	4.20		Ø7/31/79	-
BREVARD CO. MC	BR21Ø	FLOWING	UNUSED	28 22 47	80 41 5		4.00		04/08/81	-
BREVARD CO. MC	BR213	FLOWING	UNUSED	28 25 43	80 41 22		4.00		Ø4/Ø 8/81	-
BREVARD CO. MC	BR219	FLOWING	UNUSED	28 26 43	80 43 15		4.00		09/10/80	-
BREVARD CO. MC	BR238	FLOWING	UNUSED	28 24 16	80 40 46	195 261	4.00		Ø4/Ø1/81	-
BREVARD CO. MC	BR239	FLOWING	UNUSED	28 26 52	80 43 23		3.00		Ø4/Ø3/81	-
BREVARD CO. MC	BR24Ø	FLOWING	UNUSED	28 27 54	80 43 10		3.00		Ø4/Ø 8/81	-
BREVARD CO. MC	BR241	FLOWING	UNUSED	28 26 2	80 41 45	- 172	4.00		Ø1/3Ø/81	-
BREVARD CO. MC	BR78*	PLUGGED	UNUSED	27 52 8	80 27 17	102 449	4.00		Ø7/26/79	YES
BREVARD CO. MC	BR79*	FLOHING	UNUSED	27 52 6	8Ø 27 25	- 466	4.00		02/09/80	-
BREVARD CO. MC	BR8Ø*		UNUSED	27 52 27	89 28 3	193 496	4.00		01/24/75	YES
BREVARD CO. MC		PLUGGED	UNUSED	27 52 31	80 28 7	193 293	4.00		01/27/75	YES
BREVARD CO. MC		PLUGGED	UNUSED	27 53 1	80 28 4		4.99		01/24/75	-
BREVARD CO. MC	BR83*		UNUSED	27 53 5	8ø 28 4	193 465	4.00		Ø1/24/75	YES
BREVARD CO. MC	BR84*	FLOWING "	UNUSED	27 53 3	8 Ø 28 15	`	4.99		Ø1/27/75	-
BREVARD CO. MC		PLUGGED	UNUSED	27 53 57	8Ø 28 17	- -	4.00		01/28/75	-
BREVARD CO. MC		PLUGGED	UNUSED	27 54 25	80 28 38	101 358	4.00		Ø1/28/75	YES
BREVARD CO. MC		PLUGGED	UNUSED	27 55 18	80 29 36	- 496	4.00		0 7/27/79	-
BREVARD CO. MC		FLOWING	UNUSED	27 55 39	89 29 49		4.00		Ø5/13/8Ø	-
BREVARD CO. MC		FLOWING	UNUSED	27 55 23	8Ø 32 8		4.00		05/19/47	-
BREVARD CO. MC		PLUGGED	UNUSED	27 56 9	80 30 24	- 386	4.00		Ø 7/26/79	YES
BREVARD CO. MC		FLOWING	UNUSED	27 56 2	89 39 22	- 387	4.00		Ø5/Ø7/8Ø	-
BREVARD CO. MC		PLUGGED	UNUSED	27 56 28	80 30 32	103 425	4.00		Ø5/Ø7/8Ø	YES
BREVARD CO. MC		FLOWING	UNUSED	27 57 35	80 30 48		4.00		02/10/75	-
BREVARD CO. MC		FLOWING	UNUSED	27 58 58	89 31 18	- 329	4.00		Ø5/Ø7/8Ø	-
BREVARD CO. MC		FLOWING	UNUSED	27 58 38	89 31 9	- 346	4.00		Ø5/14/8Ø	-
BREVARD CO. MC		FLOWING	UNUSED	27 58 46	80 31 21	- 346	4.00		Ø5/14/8Ø	-
BREVARD CO. MC		FLOWING	UNUSED	28 18 29	80 40 31		4.00		Ø9/3Ø/8Ø	-
BREVARD COUNTY	BK101	FLOWING	IRRIGATION	28 24 20	89 41 35		4.00	1//1.00	Ø6/11/8Ø	-

OWNER	WELL	STATUS	WELL USE	L DE		T				CASE DEPTH		WELL DIAM	CHLORIDE MG/L	SAMPLE DATE	GEPH LOGS
	15			-		<u> </u>		•••	~_	24, 11,	<i>D</i> C	227/11	110/ 2	D/112	2000
BREVARD COUNTY	BR151	FLOWING	IRRIGATION	28	24	20	8Ø	41	35	-	-	4.00	1771.00	Ø6/11/8Ø	-
BREVARD COUNTY		FLOWING	IRRIGATION	28			8Ø			-	-	4.00	1420.00	Ø7/3Ø/79	-
BREVARD COUNTY		FLOWING	IRRIGATION	28	16	59	80	40	7	164	261	4.00		Ø8/22/78	-
BREVARD COUNTY M. C.		FLOWING	IRRIGATION	28			89	4Ø	53	-	-	4.00	11.76	Ø4/2Ø /81	-
BREWER, GRAY		FLOWING	UNUSED	28			80	45	34	-	-	2.00	4220.00	11/14/84	-
C. CRISAFULL	BR242	FLOWING	UNUSED	28	26	24	8Ø	42	48	-	-	4.90	1887.00	Ø3/11/81	-
C.E. CARRIE	BR261	FLOWING	UNUSED	27	55	48	8Ø	41	35	93	316	4.99	718.09	Ø3/19/81	YES
CAPE CANAVERAL AFB	BR599	FLOWING	UNUSED	28	27	32	89	35	50	-	-	4.00	-	-	-
CAPE CANAVERAL AFB	BR6Ø1	FLOWING	UNUSED	28			8Ø			-	-	3.00	-	-	•
CAPE CANAVERAL AFS		FLOWING	UNUSED	28			8Ø			_	-	4.00	-	-	-
CAPE CANAVERAL AFS		FLOWING	UNUSED	28			80			-		4.99	-	-	-
CARLYLE PLATT		FLOWING	UNUSED	27			8Ø			-	-	3.00	756.00	11/28/78	-
CECIL PLATT		FLOWING	IRRIGATION	28			80			_	-	8.00		Ø9/19/56	-
CHARLES CRISAFULLI		FLOWING	UNUSED	28			8Ø			-	-	4.00		Ø3/11/81	-
CITY OF COCOA BEACH		FLOWING	UNUSED	28			80			-	-	2.00		Ø4/23/84	-
CITY OF PALM BAY		PLUGGED	UNUSED			7	8Ø			87	349	6.00		Ø3/25/81	YES
CORRIGAN		FLOWING	IRRIGATION	27			8Ø			-	-	2.00		Ø5/18/79	-
COTNEY		FLOWING	UNUSED	28			89			_	_	4.00		Ø3/13/84	-
COUCH PUMPS		PLUGGED	UNUSED	27			80			71	798	12.00	•	•	YES
COUCH PUMPS		PLUGGED	UNUSED	27			8Ø			159	628	8.00	590.00	Ø6/Ø8/84	YES
COYLE 412 SUNSET BLV			IRRIGATION	28			80			-	-	2.00		Ø8/24/81	-
CRISAFULLI, B.		FLOWING	UNUSED	28			80			_	_	4.00		11/14/84	-
DAVENPORT		FLOWING	UNUSED	27			80			-	-	6.00	-	-	-
DE VINCI INC.		FLOWING	IRRIGATION	27			80			-	-	2.00	508.00	Ø6/Ø8/81	-
DEER RUN		FLOWING	STOCK	27			8Ø			-	-	2.00		Ø4/Ø8/75	-
DEER RUN		FLOWING	IRRIGATION	27			8Ø			-	399	6.00		Ø3/15/57	
DEER RUN		FLOWING	STOCK	27			80			_	3Ø5	6.00		Ø3/11/81	` _
DEER RUN		FLOWING	IRRIGATION	27			80			_	680	6.00		Ø3/11/81	_
DESERET RANCH		FLOWING	STOCK	28			89			-	-	4.99		94/97/81	-
DNR-PARKS AND REC.		PLUGGED	UNUSED	27			89			81	392	4.69		02/09/81	YES
DRAWDY	BR371	FLOWING	DOMESTIC	28			80			-	-	4.00		11/22/78	-
E. L. WEGERIF		FLOWING	UNUSED	28			80			_	_	2.00		07/21/77	_
ENTERPRISE INTERNATI			IRRIGATION	28			89			84	_	4.99		Ø8/Ø2/81	YES
FLA. STATE MATHERS B			UNUSED	28			8Ø			-	_	2.00	-	-	
FOOSANER		FLOWING	UNUSED	28			80			84		3.00		Ø3/13/84	YES
FOOSANER		FLOWING	UNUSED	28			8Ø			86	183	4.66		Ø3/13/84	YES
FOOSANER		FLOWING	UNUSED	28			80			36	212	4.00		Ø3/13/84	YES
6DC		FLOWING	UNUSED	27			89			-	-	6.00		11/30/78	-
GDC		FLOWING	UNUSED	27			89			_	_	6.00	-	-	_
GDC		FLOWING	UNUSED	27			80			_	_	6.00		11/30/78	-
GDC		FLOWING	UNUSED	27			80			_	_	6.00	007.00	11/32/10	_
GDC		FLOWING	UNUSED	27			89			_	-	6.00	-	_	-
GDC		FLOWING	UNUSED	27			80 on			_	-	4.99	_	_	_
GDC		FLOWING	UNUSED	27			8Ø			_	_	6.00	_	_	_
GDC		FLOWING	UNUSED	27			8Ø			_	-	6.90	_	-	-
GDC		FLOWING	UNUSED	27			80 90			_	_	4.00	-	_	_
										-	-			an /24 /04	_
GDC-CARLYLE PLATT	P1270	FLOWING	STOCK	27	96	14	80	44	10	-	-	6.00	201.68	Ø3/31/81	_

GDC-CARLYLE PLATT GDC-LOT FOR SALE GRA11 FLOMING UNISED 23 6 30 60 80 39 36 - 3,86 688,86 11/27/78 - GEN, DEV. CAPP. LANN BR39,9 FLOMING LINESED 25 6 30 60 80 39 36 - 3,86 688,86 11/27/78 - GEN, DEV. CAPP. LANN BR39,9 FLOMING LINESED 26 2 32 88 43 27 - 368 5,86 668,68 03/27/77 - GEN, DEVELOP, CORP. BR252 FLOMING STOCK 27 58 35 88 42 19 - 266 4,86 71/4,66 48/88/17 - 48/87 714,66 48/88/17 - 48/87 714,66 48/88/17 - 48/87 714,66 48/88/17 - 48/87 714,66 48/88/17 - 48/87 714,66 48/88/17 - 48/88 714,66 48/88/17 - 48/88 714,66 48/88/17 - 48/88 714,66 48/88/17 - 4	OWNER	WELL ID	STATUS	WELL USE	L De		T SE	L DE		CASE DEPTH	MELL DEPTH	WELL DIAM	CHLORIDE MG/L	SAMPLE DATE	GEPH LOGS
BOND-LOT FOR SALE BRASI FLOWING LANISED 28 8 98 88 99 98 -	GDC-CARLYLE PLATT	BR275	ELOWING	STOCK	27	58	16	89	34	-	-	4.00	481.00	Ø4/Ø1/81	
EEN, DEVELOP, CORP, BR255 FLOWING LANGED 28 2 32 88 34 58 0. 2.68 656.09 657.75 - 6EN, DEVELOP, CORP, BR252 FLOWING STOCK 27 58 25 86 42 10 4.69 714.09 6440376: - 6EN, DEVELOP, CORP, BR252 FLOWING STOCK 27 58 25 86 42 10 4.69 714.09 6440376: - 6EN, DEVELOP, CORP, BR252 FLOWING STOCK 27 58 25 86 42 10 4.69 714.09 6440376: - 6EN, DEVELOP, CORP, BR252 FLOWING STOCK 27 58 25 86 42 10 4.69 714.09 6440376: - 6EN, DEVELOP, CORP, BR253 PLUSEED LINISED 27 55 45 98 46 11 107 33 56 6.69 714.09 6440376: YES 6EN, DEVELOP, CORP, BR253 PLUSEED LINISED 27 55 2 86 40 41 55 123 299 2.69 719.09 87317/81: YES 6EN, DEVELOP, CORP, BR264 PLOWING LINISED 27 55 46 80 41 45 123 299 2.69 719.09 870/79/79 YES 6EN, DEVELOP, CORP, BR265 PLOWING LINISED 27 56 66 80 41 45 123 299 2.69 719.09 870/79/79 YES 6EN, DEVELOP, CORP, BR265 PLOWING LINISED 27 56 66 80 41 45 123 299 2.69 719.09 870/79/79 YES 6EN, DEVELOP, CORP, BR265 PLOWING LINISED 27 56 66 80 41 45 123 299 3.69 718.09 871/97/19 YES 6EN, DEVELOP, CORP, BR265 PLOWING LINISED 27 57 66 56 80 41 42 12 2.59 6.69 871/8/11 - 6EN, DEVELOP, CORP, BR265 PLOWING LINISED 27 59 56 56 80 38 20 2.59 665 80 871/8/11 - 6EN, DEVELOP, CORP, BR265 PLOWING LINISED 27 59 56 56 80 38 20 2.59 665 80 871/8/11 - 6EN, DEVELOP, CORP, BR265 PLOWING LINISED 27 59 56 50 80 30 40 4.00 675.00 871/8/18/1 - 6EN, DEVELOP, CORP, BR267 FLOWING LINISED 27 59 56 50 80 32 20 40 4.00 675.00 871/8/18/1 - 6EN, DEVELOP, CORP, BR267 FLOWING LINISED 27 59 56 50 80 34 6 4.00 675.00 871/8/18/1 - 6EN, DEVELOP, CORP, BR267 FLOWING LINISED 27 59 56 50 80 34 6 4.00 675.00 871/8/18/1 - 6EN, DEVELOP, CORP, BR267 FLOWING LINISED 27 59 56 50 80 34 6 4.00 675.00 871/8/18/1 - 6EN, DEVELOP, CORP, BR267 FLOWING LINISED 27 59 55 50 80 39 40 4.00 675.00 871/8/18/1 - 6EN, DEVELOP, CORP, BR267 FLOWING LINISED 27 59 55 80 39 40 4.00 675.00 871/8/18/19/8/19/8/19/8/19/8/19/8/19/8/1											-				-
EEN, DEVELOP, CORP, BR225 FLORING STOCK 27 58 25 88 42 19 - 368 5.89 640,89 83/27/57 - 6EN, DEVELOP, CORP, BR225 FLORING STOCK 27 58 25 88 42 19 - 266 4.89 744.89 84/83/81 - 6EN, DEVELOP, CORP, BR226 FLORING STOCK 27 58 25 88 42 19 - 266 4.89 714.89 84/83/81 - 6EN, DEVELOP, CORP, BR268 PLUSEED UNLSED 27 55 38 88 42 19 - 266 4.89 714.89 84/83/81 - 6EN, DEVELOP, CORP, BR269 FLORING UNLSED 27 55 38 88 42 19 - 369 4.89 714.89 84/83/81 - 6EN, DEVELOP, CORP, BR269 FLORING UNLSED 27 55 38 88 42 19 - 369 2.89 788.99 83/17/81 VES 6EN, DEVELOP, CORP, BR264 FLORING UNLSED 27 55 38 88 42 19 - 369 2.89 788.99 83/17/81 VES 6EN, DEVELOP, CORP, BR264 FLORING UNLSED 27 55 38 88 48 12 82 399 2.89 788.99 83/17/81 VES 6EN, DEVELOP, CORP, BR263 FLORING UNLSED 27 56 38 88 41 21 82 329 6.89 788.99 83/18/81 - 6EN, DEVELOP, CORP, BR263 FLORING UNLSED 27 56 38 88 41 21 8 23 329 6.89 788.99 83/18/81 - 6EN, DEVELOP, CORP, BR263 FLORING UNLSED 27 56 38 88 41 21 8 2 322 4.89 83/18/81 - 6EN, DEVELOP, CORP, BR265 FLORING UNLSED 27 56 48 88 41 21 8 2 322 4.89 83/18/81 - 6EN, DEVELOP, CORP, BR275 FLORING UNLSED 27 56 48 88 41 21 8 2 322 4.89 83/18/81 - 6EN, DEVELOP, CORP, BR275 FLORING UNLSED 27 56 56 88 82 28 8 - 4 8.99 788.99 83/18/81 - 6EN, DEVELOP, CORP, BR275 FLORING UNLSED 27 59 55 88 39 48 - 4 8.99 725.89 83/33/81 - 6EN, DEVELOP, CORP, BR275 FLORING UNLSED 27 59 55 88 39 48 - 4 8.99 725.89 83/33/81 - 6EN, DEVELOP, CORP, BR277 FLORING UNLSED 27 59 55 88 39 48 - 4 8.99 87 758.99 83/33/81 - 6EN, DEVELOP, CORP, BR278 FLORING UNLSED 27 59 55 88 39 48 - 4 8.99 87 758.99 83/33/81 - 6EN, DEVELOP, CORP, BR278 FLORING UNLSED 27 59 55 88 39 48 - 4 8.99 87 758.99 83/33/81 - 6EN, DEVELOP, CORP, BR281 FLORING UNLSED 28 64 18 41 2 - 4 8.99 87 758.99 83/33/81 - 6EN, DEVELOP, CORP, BR281 FLORING UNLSED 28 8 41 88 41 2 - 4 8.99 87 758.99 83/33/81 - 6EN, DEVELOP, CORP, BR281 FLORING UNLSED 28 8 41 88 41 2 - 4 8.99 87 88 89 89 89 89 89 89 89 89 89 89 89 89										-	-			_	-
EEN, DEVELOP, CORP, BR225 FLOATING STOCK 27 58 35 88 42 18 4,88 747,86 64/83/81 EEN, DEVELOP, CORP, BR225 FLOATING STOCK 27 58 35 88 42 19 - 2 66 4.68 714.66 64/83/81 EEN, DEVELOP, CORP, BR225 FLOATING UNLISED 27 55 46 98 48 11 187 336 6.88 6712.08 63/17/81 YES 6EN, DEVELOP, CORP, BR225 FLOATING UNLISED 27 55 38 86 48 58 124 355 6.89 675,88 93/17/81 YES 6EN, DEVELOP, CORP, BR225 FLOATING UNLISED 27 55 46 98 48 11 187 336 6.89 712.68 63/17/81 YES 6EN, DEVELOP, CORP, BR226 FLOATING UNLISED 27 55 46 98 41 21 35 29 6.89 788.68 97/19/77 YES 6EN, DEVELOP, CORP, BR226 FLOATING UNLISED 27 55 54 88 41 25 123 299 6.89 788.68 97/19/77 YES 6EN, DEVELOP, CORP, BR224 FLOATING UNLISED 27 56 55 88 41 21 82 378 2.89 788.68 93/19/81 5 6EN, DEVELOP, CORP, BR224 FLOATING UNLISED 27 56 55 88 41 21 82 378 2.89 788.68 93/19/81 5 6EN, DEVELOP, CORP, BR225 FLOATING UNLISED 27 59 56 88 38 28 2 9.99 3.89 788.68 93/19/81 5 6EN, DEVELOP, CORP, BR225 FLOATING UNLISED 27 59 56 87 38 28 9,89 788.69 83/18/81 5 6EN, DEVELOP, CORP, BR227 FLOATING UNLISED 27 59 56 87 38 28 9,89 788.69 83/39/81 5 6EN, DEVELOP, CORP, BR227 FLOATING UNLISED 27 59 56 87 38 28 9,89 788.69 83/39/81 5 6EN, DEVELOP, CORP, BR227 FLOATING UNLISED 27 59 56 87 38 28 9,89 788.69 83/39/81 7 5 6EN, DEVELOP, CORP, BR236 FLOATING UNLISED 27 59 56 88 39 39 6 4,89 718.89 83/39/81 YES 6EN, DEVELOP, CORP, BR238 FLOATING UNLISED 27 59 56 88 39 39 8 4,89 718.89 83/39/81 YES 6EN, DEVELOP, CORP, BR238 FLOATING UNLISED 28 8 41 88 42 25 - 3 355 4.89 718.89 83/26/81 - 6EN, DEVELOP, CORP, BR238 FLOATING UNLISED 28 8 41 88 42 25 - 3 355 4.89 718.69 83/26/81 - 6EN, DEVELOP, CORP, BR238 FLOATING UNLISED 28 18 18 64 62 5 - 3 355 4.89 67/26/89 83/26/81 - 6EN, DEVELOP, CORP, BR238 FLOATING UNLISED 28 18 18 45 88 33 57 - 4 8,99 18 18 69 84 82 5 - 4 8,99 18 69 83/26/81 - 6EN, DEVELOP, CORP, BR238 FLOATING UNLISED 28 18 18 84 45 28 - 3 356 4.89 69 18 69 86/27/79 - 6EN, DEVELOP, CORP, BR238 FLOATING UNLISED 28 18 88 45 21 - 4 8,99 18 69 50 5 - 4 8,99 18 69 86/										-	368				-
EEN. DEVELOP. CORP. BR226 FLUMINS STOCK 2 7 54 59 89 40 11 107 33 6 6.00 712.00 0871/781 YES EEN. DEVELOP. CORP. BR250 FLUGSED UNLISED 27 55 30 80 40 70 11 107 33 6 6.00 712.00 0871/781 YES EEN. DEVELOP. CORP. BR250 FLUGSED UNLISED 27 55 30 80 40 70 11 107 33 6 6.00 712.00 0871/781 YES EEN. DEVELOP. CORP. BR250 FLUGSED UNLISED 27 55 30 80 40 70 11 107 33 6 6.00 675.00 0871/781 YES EEN. DEVELOP. CORP. BR268 FLUGHING UNLISED 27 55 40 80 40 70 1 399 2.00 700.00 0871/781 YES EEN. DEVELOP. CORP. BR263 FLUGHING UNLISED 27 55 40 80 40 11 50 2 299 6.00 700.00 0871/781 YES EEN. DEVELOP. CORP. BR263 FLUGHING UNLISED 27 56 30 80 41 45 12 82 378 2.00 708.00 0871/1871 YES EEN. DEVELOP. CORP. BR263 FLUGHING UNLISED 27 56 40 80 41 21 82 378 2.00 708.00 0871/1871 YES EEN. DEVELOP. CORP. BR264 FLUGHING UNLISED 27 56 40 80 41 21 82 378 2.00 708.00 0871/1871 YES EEN. DEVELOP. CORP. BR264 FLUGHING UNLISED 27 59 55 80 30 40 21 8 9 41 20 8 8 42 21 8 8 8 42 21 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8										-					-
EEN. DEVELOP, CORP. BR258 PLUGGED UNUSED 27 54 59 80 48 11 187 334 6.88 7112.08 83/17/81 YES 6EN. DEVELOP, CORP. BR259 FLUGGED UNUSED 27 55 30 88 48 24 - 389 2.66 769.08 697.08 93/17/81 YES 6EN. DEVELOP, CORP. BR269 FLOWING UNUSED 27 55 46 80 41 21 82 378 2.66 769.08 12/86/78 - 6EN. DEVELOP, CORP. BR262 PLUGGED UNUSED 27 55 46 80 41 21 82 378 2.66 769.08 12/86/78 12 80 41 21 82 378 2.66 769.08 12/86/78 12 80 41 21 82 378 2.66 769.08 12/86/78 12 80 41 21 82 378 2.66 769.08 12/86/78 12 80 41 21 82 378 2.66 83 90 31/8/81 - 6EN. DEVELOP, CORP. BR264 FLOWING UNUSED 27 55 64 88 41 21 82 378 2.66 68.09 93/18/81 - 6EN. DEVELOP, CORP. BR264 FLOWING UNUSED 27 55 68 80 41 21 82 378 2.66 68.09 93/18/81 - 6EN. DEVELOP, CORP. BR267 FLOWING UNUSED 27 59 55 80 38 20 - 2.0 8.06 775.80 89 37/38/81 - 6EN. DEVELOP, CORP. BR267 FLOWING UNUSED 27 59 55 80 38 20 - 4.00 775.80 89 37/38/81 - 6EN. DEVELOP, CORP. BR277 FLUGGED UNUSED 27 59 55 80 48 32 0 - 4.00 775.80 89 37/38/81 - 6EN. DEVELOP, CORP. BR277 FLUGGED UNUSED 27 59 55 80 41 46 127 347 4.00 775.80 89/38/81 - 6EN. DEVELOP, CORP. BR277 FLUGGED UNUSED 27 59 55 80 41 46 127 347 4.00 775.80 89/38/81 - 6EN. DEVELOP, CORP. BR278 FLUGGED UNUSED 27 59 55 80 41 46 127 347 4.00 665.00 89/38/81 - 6EN. DEVELOP, CORP. BR278 FLUGGED UNUSED 27 59 55 80 41 46 127 347 4.00 665.00 89/38/81 - 6EN. DEVELOP, CORP. BR278 FLUGGED UNUSED 27 59 55 80 41 46 127 347 4.00 665.00 89/38/81 - 6EN. DEVELOP, CORP. BR278 FLUGGED UNUSED 27 59 55 80 41 46 127 347 4.00 665.00 89/38/81 - 6EN. DEVELOP, CORP. BR278 FLUGGED UNUSED 28 84 41 51 12 12 12 12 12 12 12 12 12 12 12 12 12										_	266				-
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GEN. DEVELOP. CORP. BR281 FLOWING UNUSED 28 8 41 88 48 25 - 335 4.86 448.80 64/26/79 - 6EN. DEVELOP. CORP. BR381 FLOWING UNUSED 27 56 16 88 41 2 6.60 6 6 6EN. DEVELOP. CORP. BR285 FLOWING UNUSED 27 7 25 89 41 4 4.60 691.80 69/26/31/84 - 6 6 6 6 6 6 6 7 6 7 7 25 89 41 4 4.60 691.80 69/26/31/84 - 6 6 6 7 6 7 8 7 8 7 8 8 8 36 36 6 4.60 1880 60 69/26/31/84 - 6 6 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	· · · · · · · · · · · · · · · · · · ·									127	347				YES
GEN. DEVELOP. CORP. BR361 FLOWING UNUSED 27 56 16 88 41 2 6.00 6EN. DEVEOP. CORP. BR268 FLOWING IRRIGATION 27 57 25 88 41 4 4.00 691.00 03/24/81 - 6EORGE BALL BR592 FLOWING UNUSED 28 18 45 80 36 36 4.00 1800.00 03/24/81 - 6EORGE BALL BR592 FLOWING UNUSED 28 36 40 80 33 47 150 505 4.00 1800.00 03/24/81 - 6EORGE BALL BR594 FLOWING UNUSED 28 20 40 80 33 47 150 505 4.00 645.00 03/26/81 - 6EORGE BALL BR279 FLOWING UNUSED 28 20 40 80 33 47 150 505 4.00 645.00 03/26/81 - 6EORGE BALL BR279 FLOWING STOCK 27 59 1 80 43 20 - 364 4.00 522.00 06/27/79 - 6EORGE BR280 FLOWING STOCK 27 59 52 80 45 12 - 377 6.00 414.00 03/25/81 - 6EORGE BALL BR379 FLOWING UNUSED 28 17 41 80 41 58 3.22 1002.00 06/11/81 - 6EORGE BALL BR379 FLOWING UNUSED 28 21 80 46 43 112 371 4.00 1536.00 03/16/84 VES JAMESTOWN CONDOS BR359 FLOWING UNUSED 28 8 43 80 35 4 6.00 2255.00 05/05/81 - 6EORGE BALL BR329 FLOWING UNUSED 28 4 47 80 41 85 450 4.00 6EORGE BALL BR329 FLOWING UNUSED 28 4 47 80 41 85 450 4.00 6EORGE BALL BR329 FLOWING UNUSED 28 4 47 80 41 85 450 4.00 6EORGE BALL BR329 FLOWING UNUSED 28 4 47 80 41 85 450 4.00 340.00 11/66/78 - 6EORGE BALL BR329 FLOWING UNUSED 28 4 47 80 40 4 4.00 340.00 11/66/78 - 6EORGE BALL BR329 FLOWING UNUSED 28 16 5 80 40 13 2.00 990.00 09/11/56 - 6EORGE BALL BR329 FLOWING UNUSED 28 16 5 80 40 13 2.00 990.00 09/11/56 - 6EORGE BALL BR329 FLOWING UNUSED 28 16 5 80 40 13 2.00 990.00 09/11/56 - 6EORGE BALL BR329 FLOWING UNUSED 28 20 47 80 50 18 2.00 762.00 08/24/81 - 6EORGE BR329 FLOWING UNUSED 28 20 47 80 50 18 2.00 762.00 08/24/81 - 6EORGE BR320 FLOWING UNUSED 28 34 49 80 35 59 2.00 762.00 08/24/81 - 6EORGE BR320 FLOWING UNUSED 28 34 49 80 35 59 2.00 762.00 08/24/81 - 6EORGE BR320 FLOWING UNUSED 28 34 49 80 35 59 2.00 762.00 08/24/81 - 6EORGE BR320 FLOWING UNUSED 28 34 40 80 35 59 2.00 762.00 08/24/81 - 6EORGE UNUSED 28 34 44 80 35 59 2.00 762.00 08/24/81 - 6EORGE UNUSED 28 34 44 80 35 59 2.00 762.00 08/24/81 - 6EORGE UNUSED 28 34															
GEN. DEVEOP. CORP. BR268 FLOWING IRRIGATION 27 57 25 88 41 4 4.00 691.00 03/24/81 - GEORGE BALL BR592 FLOWING UNUSED 28 18 45 80 36 36 4.00 1300.00 62/23/94 - 60095 504 4TH AVE BR434 FLOWING IRRIGATION 23 3 54 80 33 47 150 505 4.00 645.00 03/10/75 - HAPPED BR234 FLOWING UNUSED 28 20 40 80 39 51 0.00 1015.00 03/20/81 - HAROLD PLATT BR279 FLOWING STOCK 27 59 1 80 43 20 - 364 4.00 522.00 06/27/79 - HAROLD PLATT BR280 FLOWING STOCK 27 59 52 80 45 12 - 377 0.00 414.00 03/25/91 - HAROLD PLATT BR280 FLOWING IRRIGATION 28 17 41 80 41 58 3.52 1002.00 06/11/21 - JACK SIMPSON BR602 FLOWING UNUSED 28 22 18 80 46 43 112 371 4.00 1536.00 03/16/84 YES JACK SIMPSON BR602 FLOWING UNUSED 28 8 43 80 35 4 4.00 2285.00 05/65/81 JAMESTOWN CONDOS BR232 FLOWING UNUSED 28 8 43 80 35 4 4.00 2285.00 05/65/81 JAMESTOWN CONDOS BR232 FLOWING UNUSED 28 4 47 80 41 41 85 450 4.00										-			-		-
GEORGE BALL GEORGE GEORGE BALL GEORGE BAL										_	_		691.00	63/24/81	_
GOUGH 564 4TH AVE											-				-
HAPPED BR234 FLOWING UNUSED 28 20 40 80 39 51 -															_
HAROLD PLATT BR279 FLOWING STOCK 27 59 1 89 43 28 - 364 4.00 522.00 66/27/79 - HAROLD PLATT BR280 FLOWING STOCK 27 59 52 80 45 12 - 377 0.00 4144.00 03/25/81 - HARVEY RAY BR415 FLOWING IRRIGATION 28 17 41 80 41 58 - 3.52 1002.00 66/11/81 - JACK SIMPSON BR602 FLOWING UNUSED 28 22 18 80 46 43 112 371 4.00 1536.00 03/16/84 YES JACK STORY, SR BR401 FLOWING STOCK 28 21 50 80 48 58 - 6.00 2285.00 05/05/81 - JAMESTOWN CONDOS BR232 FLOWING UNUSED 28 8 43 80 35 4 - 6.00 2285.00 05/05/81 - JAMESTOWN CONDOS BR232 FLOWING UNUSED 28 8 43 80 35 4 - 6.00 2285.00 05/05/81 - JAMESTOWN CONDOS BR232 FLOWING UNUSED 28 8 43 80 35 4 - 6.00 2285.00 05/05/81 - JAMESTOWN CONDOS BR232 FLOWING STOCK 28 4 47 80 41 41 85 450 4.00															· <u>-</u>
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HARVEY RAY															_
JACK SIMPSON															
JACK STORY, SR															
JAMESTOWN CONDOS BR322 FLOWING UNUSED 28 8 43 80 35 4 4.00 - -															
STATE STAT															
KEMPHER BR228 FLOWING STOCK 28 4 43 80 50 32 - 295 4.00 223.00 04/02/81 - KEMPHER BR229 FLOWING STOCK 28 4 57 80 50 18 - - 4.00 340.00 11/06/78 - KEMPHER BR230 FLOWING STOCK 28 5 30 80 46 44 - - 4.00 360.00 04/02/81 - LA TURE BR392 FLOWING UNUSED 28 22 7 80 52 18 - - 2.00 990.00 09/11/56 - LULP LEE 2924 MAIN BR435 FLOWING IRRIGATION 28 3 49 80 35 59 - - 2.00 762.00 08/24/81 - LULP LEE 2924 MAIN BR435 FLOWING IRRIGATION 27 49 21 80 <														_	_
KEMPHER BR229 FLOWING STOCK 28 4 57 80 50 18 - - 4.00 340.00 11/06/78 - KEMPHER BR230 FLOWING STOCK 28 5 30 80 46 44 - - 4.00 360.00 04/02/81 - LA TURE BR392 FLOWING UNUSED 28 16 5 80 40 13 - 2.00 2150.00 09/11/56 - LULP LEE 2924 MAIN BR345 FLOWING IRRIGATION 28 3 44 80 35 59 - - 2.00 762.00 08/24/81 - LULP LEE 2924 MAIN BR435 FLOWING IRRIGATION 28 3 49 80 35 59 - - 2.00 762.00 08/24/81 - MARCUS BOOKIE BR366 FLOWING IRRIGATION 27 49 21 80 50 <td></td> <td>64/62/91</td> <td></td>														64/6 2/91	
KEMPHER BR230 FLOWING STOCK 28 5 30 80 46 44 - - 4.00 360.00 94/92/81 - LA TURE BR392 FLOWING UNUSED 28 16 5 80 40 13 - - 2.00 990.00 09/11/56 - LUP LEE BR364 FLOWING UNUSED 28 22 7 80 52 18 - - 2.00 2150.00 06/21/54 - LULP LEE 2924 MAIN BR435 FLOWING IRRIGATION 28 3 44 80 35 59 - - 2.00 762.00 08/24/81 - LULP LEE 2924 MAIN BR435 FLOWING IRRIGATION 28 3 49 80 35 59 - - 2.00 762.00 08/24/81 - MACUS BOOKIE BR366 FLOWING IRRIGATION 27 49															
LA TURE BR392 FLOWING UNUSED 28 16 5 80 40 13 2.00 990.00 09/11/56 - LONE CABBAGE CAMP BR204 FLOWING UNUSED 28 22 7 80 52 18 2.00 2150.00 06/21/54 - LULP LEE 2924 MAIN BR435 FLOWING IRRIGATION 28 3 44 80 35 59 2.00 762.00 08/24/81 - LULP LEE 2924 MAIN BR435 FLOWING IRRIGATION 28 3 49 80 35 59 2.00 762.00 08/24/81 - MARCUS BOOKIE BR366 FLOWING IRRIGATION 27 49 21 80 50 33 - 693 5.00 301.00 04/09/81 - MOONEY BR387 FLOWING IRRIGATION 28 20 47 80 41 7 - 400 4.00 925.00 08/27/78 - MTDCD BR365 PLUGGED UNUSED 27 55 12 80 41 22 2.00 735.00 04/14/81 - NASA BR367 PLUGGED UNUSED 28 34 14 80 39 12 131 225 4.00 1820.00 09/02/83 YES NASA BR587 PLUGGED UNUSED 28 39 44 80 46 33 112 200 4.00 7500.00 01/16/84 YES NASA BR588 PLUGGED UNUSED 28 31 34 80 38 2 4.00 1370.00 01/19/84 YES NASA BR589 PLUGGED UNUSED 28 28 45 80 39 35 4.00 1180.00 01/19/84 YES NASA BR595 PLUGGED UNUSED 28 33 43 80 40 14 83 190 4.00 YES NASA BR595 PLUGGED UNUSED 28 33 43 80 40 14 83 190 4.00 YES NASA BR595 PLUGGED UNUSED 28 33 13 80 39 38 6.00 YES NASA BR595 PLUGGED UNUSED 28 33 13 80 39 38 6.00 YES NASA BR604 FLOWING UNUSED 28 33 13 80 39 38 6.00 YES											_				
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NASA BR367 PLUGGED UNUSED 28 34 14 8Ø 39 12 131 225 4.ØØ 182Ø.ØØ Ø9/Ø2/83 YES NASA BR587 PLUGGED UNUSED 28 39 44 8Ø 46 33 112 2ØØ 4.ØØ 75ØØ.ØØ Ø1/16/84 YES NASA BR588 PLUGGED UNUSED 28 31 34 8Ø 38 2 - - 4.ØØ 137Ø.ØØ Ø1/19/84 YES NASA BR589 PLUGGED UNUSED 28 28 45 8Ø 39 35 - - 4.ØØ 118Ø.ØØ Ø1/19/84 YES NASA BR595 PLUGGED UNUSED 28 33 43 8Ø 4Ø 14 83 19Ø 4.ØØ - - YES NASA BR6Ø4 FLOWING UNUSED 28 33 13 8Ø 39 38 - - 6.ØØ - - - -															
NASA BR587 PLUGGED UNUSED 28 39 44 8Ø 46 33 112 2ØØ 4.ØØ 75ØØ.ØØ Ø1/16/84 YES NASA BR588 PLUGGED UNUSED 28 31 34 8Ø 38 2 4.ØØ 137Ø.ØØ Ø1/19/84 YES NASA BR589 PLUGGED UNUSED 28 28 45 8Ø 39 35 4.ØØ 118Ø.ØØ Ø1/19/84 YES NASA BR595 PLUGGED UNUSED 28 33 43 8Ø 4Ø 14 83 19Ø 4.ØØ YES NASA BR6Ø4 FLOWING UNUSED 28 33 13 8Ø 39 38 6.ØØ															
NASA BR588 PLUGGED UNUSED 28 31 34 8Ø 38 2 - - 4.ØØ 137Ø.ØØ Ø1/19/84 YES NASA BR589 PLUGGED UNUSED 28 28 45 8Ø 39 35 - - 4.ØØ 118Ø.ØØ Ø1/19/84 YES NASA BR595 PLUGGED UNUSED 28 33 43 8Ø 4Ø 14 83 19Ø 4.ØØ - - YES NASA BR6Ø4 FLOWING UNUSED 28 33 13 8Ø 39 38 - - 6.ØØ - - -															
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NASA BR595 PLUGGED UNUSED 28 33 43 80 40 14 83 190 4.00 YES NASA BR604 FLOWING UNUSED 28 33 13 80 39 38 6.00															
NASA BR604 FLOWING UNUSED 28 33 13 80 39 38 6.00													- 1100.00		
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														Ø4/16/84	

OWNER	MELL	STATUS	WELL USE	L DE I	A T MI SE	L DE	O MI		CASE DEPTH	WELL DEPTH	WELL	CHLORIDE MG/L	SAMPLE DATE	GEPH LOGS
NASA	BR6Ø6	FLOWING	UNUSED	28 2	29 18	80	39	11	-	-	6.00	-	-	•
NASA	BR6Ø7	FLOWING	UNUSED	28	29 35	8Ø	39	9	-	-	6.00	1760.00	Ø4/16/84	-
NASA	BR6Ø3	FLOWING	UNUSED	28 2	29 21	8Ø	40	48	-	-	8.00	3000.00	Ø4/16/84	-
NASA	BR699	FLOWING	UNUSED	28	29 7	89	41	1	-	-	8.00	3440.00	Ø4/16/84	-
NASA	BR619	FLOWING	UNUSED	29 2	29 18	89	41	Ø	-	-	6.00	-	-	-
NASA	BR611	FLOWING	UNUSED	28	29 15	8Ø	41	1	-	-	12.00	1640.00	04/16/84	-
NASA	BR612	FLOWING	UNUSED	28 ;	3Ø 1	8Ø	41	2Ø	-	-	6.00	-	-	-
NASA	BR613	FLOWING	UNUSED	28	39 37	8Ø	40	27	-	-	3.00	1380.00	Ø4/16/84	-
NASA	BR614	FLOWING	UNUSED	28 :	31 4	8Ø	40	29	-	-	2.00	-	-	-
NASA	BR615	FLOWING	UNUSED	28 3	31 30	8Ø	40	33	-	-	3.00	-	-	-
NASA	BR616	FLOWING	UNUSED	28 3	31 35	8Ø	41	17	-	-	6.00	1880.00	Ø4/16/84	-
NASA	BR617	FLOWING	UNUSED	28 3	32 19	8Ø	40	43	-	-	6.00	3280.00	Ø4/16/84	-
NASA	BR618	FLOHING	UNUSED	28 3	32 38	89	4Ø	27	-	-	4.09	-	-	-
NASA	BR619	FLOWING	UNUSED	28	34 4	8ø	39	46	-	-	4.00	-	-	-
NASA ,	BR62Ø	FLOWING	UNUSED	28	33 46	80	40	7	-	-	4.99	-	-	-
NEVINS	BR428	FLOWING	IRRIGATION	28	18 10	8Ø	44	59	-	-	4.00	868.00	Ø3/31/81	-
NORRIS CATTLE CO.	BR4Ø8	FLOWING	STOCK	28 :	36 55	89	57	5Ø	-	-	1.00	1179.00	11/28/46	-
PERRY ELISON	BR333	FLOWING	A/C	28 3	22 32	89	42	46	-	-	2.00	2037.00	Ø7/29/81	-
PHYLIS TINGLEY	BR419	UNUSED	INDUSTRIAL	28 3	25 43	8Ø	42	59	-	_	9.99	2204.00	Ø6/Ø4/81	-
POTEET	BR421	FLOWING	STOCK .	27	50 45	89	49	46	-	284	6.00	210.00	11/16/78	-
PULLEN	BR389	FLOWING	UNUSED	28	13 32	8Ø	38	54	-	-	2.00	1042.00	Ø4/28/81	-
QUARBURG	BR42Ø	FLOWING	IRRIGATION	27	49 59	80	50	39	-	-	6.00	230.00	11/13/78	-
RAY COBBS	BR385	FLOWING	IRRIGATION	28 3	22 3	80	42	28	80	420	6.00	799.00	Ø3/1Ø/34	-
RAY VAN ORSDALE	BRØ639	FLOWING	UNLISED	28	9 49	88	38	32	-	-	12.00	-	· -	-
ROCKLEDGE GOLF COUR	BR235	FLOWING	IRRIGATION	28 3	20 -13	89	44	49	-	-	4.00	-	-	-
ROCKLEDGE GOLF COUR	BR236	FLOWING	RECREATION	28 :	20 8	8Ø	44	42	-	-	4.00	-	-	-
ROCKLEDGE GOLF COUR	BR245	FLOWING	IRRIGATION	28 3	20 2	80	45	6	-	-	4.00	1470.00	0 3/31/81	-
SEIB GROVE	BR251	FLOWING	IRRIGATION	27	53 32	8Ø	37	39	-	-	4.00	785.00	Ø3/16/81	-
SOMERFIELP	BR381	FLOWING	IRRIGATION	28	13 41	80	39	3	-	325	4.00	668.ØØ	Ø4/28/81	-
STEVE FANCZL	BR414	FLOWING	IRRIGATION	28	17 30	8Ø	4Ø	39	-	-	3.00	883.00	Ø6/11/81	-
TENDERFOOT RANCH	BR4Ø3	FLOWING	IRRIGATION	28 2	22 24	80	47	1	-	-	4.00	157 0.0 9	Ø4/14/81	-
TRICO GROVE	BR27Ø	FLOWING	IRRIGATION	27	58 24	8Ø	41	34	-	-	4.00	701.00	Ø3/3Ø/81	-
TRIO GROVE	BR271	FLOWING	IRRIGATION		58 35	88	41	27	-	-	4.00	7 0 8.00	Ø3/31/81	·· -
TRIO GROVE		FLOWING	IRRIGATION		58 35		41		-	-	4.90	722.00	03/31/81	-
TRIO GROVE		FLOWING	IRRIGATION		58 35		41		-	3Ø9	6.00	635.00	03/31/81	-
TRIO RIPE GROVE		FLOWING	IRRIGATION		58 22		41		-	-	6.90	681.00	Ø3/3Ø/81	-
UNDETERMINED		FLOWING	UNUSED		22 5		41		-	600	4.99	-	-	
UNDETERMINED		FLOWING	UNUSED		57 49		32		-	-	2.50		0 3/ 0 4/81	-
UNDETERMINED		FLOWING	UNUSED		23 29		36		-	-	2.00		94/96/77	-
UNDETERMINED		FLOWING	UNUSED		58 23		35		-	-	6.00		Ø5/12/81	-
UNDETERMINED		FLOWING	IRRIGATION		22 13		40		-	-	4.00		Ø6/Ø2/8Ø	-
UNDETERMINED		FLOWING	STOCK		21 50		51		-	-	2.00		Ø1/26/79	-
UNDETERMINED		FLOWING	UNUSED		19 57		39		-	-	2.00		Ø3/2Ø/81	-
UNDETERMINED		FLOWING	STOCK		53 57		36		-	469	2.00		03/11/81	-
UNDETERMINED		FLOWING	STOCK		53 21		39		-	-	2.00		12/14/78	-
UNDETERMINED		FLOWING	STOCK		53 25		39		-	-	2.00		Ø 3/12/81	-
UNDETERMINED	BR255	FLOWING	STOCK	Z7	53 51	89	49	4	-	333	3.00	734.00	Ø3/16/81	-

OWNER	WELL	STATUS	WELL USE	LAT	LONG	CASE WELL	WELL C	HLORIDE	SAMPLE	GEPH
	ID			DE MI SE	DE MI SE I	DEPTH DEPTH	DIAM	MG/L	DATE	LOGS
1817/77/71/71/73	pper/	EL OUTNO	PTOPK	07 50 51			0.00	745 60	85147151	
UNDETERMINED	BR256	FLOWING	STOCK	27 53 51	80 40 4		2.00	+	03/16/81	-
UNDETERMINED	BR257	FLOWING	STOCK	27 54 16	80 39 4	- 315	6.00	791.99	Ø3/16/81	-
UNDETERMINED	BR374	FLOWING	POWER	28 12 30	8Ø 36 26		6.00	-	-	-
UNDETERMINED	BR375	FLOWING	POWER	28 12 34	80 36 29		6.00	-	-	-
UNDETERMINED	BR377	FLOWING	UNUSED	28 19 18	8Ø 37 14		4.00	661.00	04/15/81	-
UNDETERMINED	BR378	FLOWING	UNUSED	28 19 17	80 37 13		4.00	668.00	Ø4/15/81	-
UNDETERMINED	BR384	FLOWING	UNUSED	28 15 38	80 41 5		4.00	1189.00	Ø4/27/81	-
UNDETERMINED	BR395	FLOWING	UNUSED	28 16 5	8ø 39 55		2.00	1050.00	Ø5/19/77	-
UNDETERMINED	BR397	FLOWING	UNUSED	28 15 48	80 41 16		0.00	277.00	Ø4/27/81	-
UNDETERMINED	BR400	FLOWING	UNUSED	28 20 45	80 46 34		6.99	1336.00	Ø4/21/81	-
UNDETERMINED	BR4Ø9	FLUGGED	UNUSED	27 52 11	80 27 22	- 466	4.00	214.00	Ø8/14/8Ø	-
UNDETERMINED	BR416	FLOWING	IRRIGATION	28 20 49	8Ø 39 42		2.00	788.00	Ø6/Ø8/81	-
UNDETERMINED	BR417	FLOWING	IRRIGATION	28 23 37	89 36 54		3.00	1136.00	Ø6/Ø9/81	-
UNDETERMINED	BR418	FLOWING	IRRIGATION	28 23 59	80 42 34	- 294	3.00	1494.00	Ø5/18/81	-
UNDETERMINED	BR422	FLOWING	UNUSED	27 51 31	80 27 4		0.00	-	-	-
UNDETERMINED	BR424	FLOWING	UNUSED	27 59 13	80 33 20		1.50	-	-	-
UNDETERMINED	BR425	FLOWING	STOCK	27 59 53	80 44 42		4.99	-	-	-
UNDETERMINED	BR426	FLOWING	UNUSED	28 11 26	8Ø 37 48		2.00	800.00	Ø3/19/76	-
UNDETERMINED	BR429	FLOWING	UNUSED	28 19 2	89 44 7		4.00	980.00	04/06/77	-
W. C. ROPER	BR413	FLOWING	IRRIGATION	28 7 18	80 37 32		6.00	608.00	Ø6/Ø9/81	-
WARREN WOOTEN	BR396	FLOWING	UNUSED	28 15 52	89 41 19		6.00	1149.00	04/27/81	-
WATER WAY ESTATES	BR376	FLOWING	POWER	28 12 43	80 36 29		2.00	-	•	-
WATERWAY ESTATES	BR373	FLOWING	OTHER	28 12 26	80 36 26		6.09	-	_	-
WICKHAM PARK	BR382	FLOWING	RECREATION	28 9 34	80 39 46	105 600	4.00	553.00	Ø3/Ø6/8Ø	-
NICKMAN PARK	BR383	FLOWING	RECREATION	28 9 51	80 39 40	105 550	6.00	700.00	10/12/75	-
WINDWARD APTS.	BR368	FLOWING	UNUSED	28 2 14	80 37 11		2.00		Ø4/3Ø/81	_
WOLFMAN	BR99*	FLOWING	UNUSED	28 18 50	80 40 38	104 141	4.00		Ø7/2Ø/77	YES

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ONNER	WELL	STATUS	WELL USE	L	A	T	L	0		CASE	WELL		CHLORIDE	SAMPLE	GEPH
	ID			DE	MI	SE	DE	MI	SE	DEPTH	DEPTH	DIAM	MG/L	DATE	LOGS
DIV OF FORESTRY	C5***	FLOWING	DOMESTIC	3Ø	3	2	81	42	27	-	-	3.00	6.00	Ø1/27/75	-
DRIGGERS	C6***	FLOWING	DOMESTIC	29	51	44	81	37	17	-	6 99	6.99	18.99	Ø1/23/75	-
GEORGE THEOBALD	C-Ø118	FLOWING	UNUSED	3Ø	5	51	81	46	1	-	-	6.99	5.00	Ø7/31/84	-
JENNINGS	C1Ø**	FLOWING	UNUSED	3Ø	8	50	81	55	2Ø	300	33Ø	3.00	7.00	Ø7/18/6Ø	-
L. J. IVEY	C1***	FLOWING	DOMESTIC	3Ø	Ø	48	81	41	43	300	365	3.00	5.00	Ø5/Ø1/7Ø	-
STOKE	C8***	FLOWING	UNUSED	3Ø	4	45	81	48	55	-	-	6.00	15.00	Ø5/19/81	-
STOKE	C9***	FLOWING	RECREATION	3Ø	4	55	81	49	11	-	-	4.00	-	-	-
TEMPLIN	C11**	FLOWING	UNUSED	3Ø	Ø	30	81	41	38	-	-	6.99	8.90	Ø9/11/81	-
TEMPLIN	C12**	FLOWING	UNUSED	3∅	Ø	31	81	41	41	-	-	3.00	10.00	Ø9/11/81	-
UNDETERMINED	C13**	FLOWING	UNUSED	ЗØ	6	20	81	46	28	-	-	6.00	20.00	Ø5/19/81	-

OWNER	WELL	STATUS	WELL USE	L	A	T	L	ε	N	CASE	WELL	WELL	CHLORIDE	SAMPLE	GEPH
	ID .			DE	MI	SE	DE	MI	SE	DEPTH	DEPTH	DIAM	MG/L	DATE	LOGS
									:						
CITY OF JACKSONVILLE	D433*	FLOWING	UNUSED	3Ø	17	23	81	42	51	•	-	4.00	-	-	-
F.E.C. RAILWAY	D426*	FLOWING	UNUSED	3Ø	7	55	81	39	57	-	-	3.00	36.00	Ø3/13/81	-
G.A. MHOON	D431*	FLOWING	UNUSED	3Ø	21	9	81	28	49	-	-	3.00	33.00	Ø3/16/81	-
HAROLD P. OMERANTE	D432*	FLOWING	UNUSED	3Ø	24	37	81	42	9	-	-	4.00	28.00	Ø6/2Ø/81	-
MERIL CORP	D434*	FLOWING	UNUSED	30	24	41	81	25	34	-	742	4.00	16.00	Ø1/61/76	-
ROMCO	D435*	FLOWING	UNUSED	30	17	33	81	43	17	-	-	10.00	13.00	09/10/81	-
UNDERTIMINED	D428*	FLOWING	UNUSED	3Ø	23	18	81	36	47	-	-	6.00	25.00	Ø3/13/81	-
UNDERTIMINED	D429*	FLOWING	UNUSED	3Ø	23	5	81	36	5 54	-	-	0.00	25.00	Ø3/12/81	-
UNDERTIMINED	D43Ø*	FLOWING	UNUSED	3Ø	23	18	81	39	19	-	-	3.00	-	-	-
UNDETERMINED	D436*	FLOWING	UNUSED	30	11	35	81	34	13	-	-	3.00	30.00	Ø1/28/82	_
UNDETERMINED	D437*	FLOWING	UNUSED	3Ø		37	81	-		-	_	3.00		07/05/84	_
WALDON POND SOCIETY	D427*	FLOWING	UNUSED	3Ø	16	58	81	-		-		3.00		-	-

OWNER	WELL	STATUS	WELL USE	L	A	T	L	0	N	CASE	WELL	WELL	CHLORIDE	SAMPLE	GEPH
	ID		•	DE	MI	SE	DE	MI	SE	DEPTH	DEPTH	DIAM	MG/L	DATE	LOGS
ADMOND FIGURETTS	F004 v	FI OUTUO	1011055	~~	~-		•								
ARMOND FISHETTE	F221*	FLOWING	UNUSED		35	1		11	49	-	-	6.00	-	-	-
ARMOND FISHETTE	F222*	FLOWING	UNUSED	29	35	4	81	11	50	-	-	6.00	-	-	-
HAMMOCK BAPTIST CHUR	F22Ø*	FLOWING	UNUSED	29	35	47	81	11	47	-	-	4.00	-	-	-
HODGES	F-Ø237	FLOWING	UNUSED	29	25	17	81	25	42	-	-	2.00	-	-	-
HODGES	F-6238	FLOWING	UNUSED	29	25	17	81	25	43	-	-	2.00	•	-	-
ITT PALM COAST	F223*	FLOWING	UNUSED	29	35	Ø	81	11	35	-	-	6.99	1600.00	Ø3/Ø7/84	-
PUBLIC DOMAIN	F-Ø239	FLOWING	UNUSED	29	25	25	81	25	3Ø	-	-	2.00	-	-	-
PUBLIC DOMAIN	F207*	FLOWING	UNUSED	29	34	1	81	11	11	-	-	6.00	7560.00	<i>0</i> 7/ <i>0</i> 8/81	-
SHAEFFER	F224*	FLOWING	UNUSED	29	29	11	81	8	3	•	-	2.00	-	· -	-
UNDETERMINED	F2Ø9*	FLOWING	STOCK	29	25	23	81	25	38	-	-	6.00	1020.00	Ø1/Ø7/82	-
UNDETERMINED	F21Ø*	FLOWING	STOCK .	29	25	22	81	2 5	38	-	-	3.00	940.00	01/07/82	-
UNDETERMINED	F211*	FLOWING	STOCK .	29	25	28	81	25	49	-	-	3.00	•	-	-
UNDETERMINED	F212*	FLOWING	STOCK	29	25	28	81	25	53	-	-	4.00	1410.00	01/07/82	-
UNDETERMINED	F213*	FLOWING	UNUSED	29	25	19	81	25	53	-	-	0.00	-	-	-
UNDETERMINED	F214*	FLOWING	UNUSED	29	25	21	81	25	53	-	-	9.99	-	-	-
WASHINGTON DAKS S.P.	F2Ø8*	PLUGGED	UNUSED	29	37	58	81	12	32	-	38Ø	4.00	-	-	YES

OMNER	WELL	STATUS	WELL USE	L	A	T	L	0	N	CASE	WELL	WELL	CHLORIDE	SAMPLE	GEPH
	ID			DΈ	ΜI	SE	DE	MI	SE	DEPTH	DEPTH	DIAM	MG/L	DATE	LOGS
									,						
GDC GDC	IR99*	FLOWING	RECREATION	27	47	19	80	27	25	-	-	3.00	320.00	Ø9/16/81	-
I. R. COUNTY MC.	IR41*	FLOWING	UNUSED	27	51	6	89	26	42	-	-	4.00	294.00	Ø2/Ø2/81	-
J.V.D'ALBORA CO.	IR271	FLOWING	UNUSED	27	46	53	8Ø	25	9	•	-	8.00	620.00	Ø3/Ø4/82	-
JOHN MCCUE	IRØ351	FLOWING	UNUSED	27	38	31	8Ø	27	54	-	-	4.60	450.00	Ø1/19/84	-
KNIGHT, C. REED	IR273	FLOWING	IRRIGATION	27	39	49	8Ø	23	21	-	-	6.00	500.00	Ø3/Ø4/82	-
KRAFT, KURT H.	IR2ØØ	FLOWING	IRRIGATION	27	37	20	8ø	22	56	-	-	6.00	560.00	Ø1/13/82	-
MARTIN, GREGORY-TRUS	IR272	FLOWING	UNUSED	27	40	3	8Ø	23	17	-	-	6.00	400.00	Ø3/Ø4/82	-
STRAZZULLA BROS, INC	IR199	FLOWING	IRRIGATION	27	37	19	8Ø	22	56	-	-	6.99	600.00	Ø1/13/82	-
U.S. GOVT.	IR198	FLOWING	IRRIGATION	27	37	19	80	22	56	-	94Ø	6.00	139.99	Ø1/13/82	-
UNDETERMINED	IR42*	FLOWING	IRRIGATION	27	51	11	8Ø	26	44	-	-	4.00	321.00	6 5/18/81	-
VERO BEACH FARMS	IR237	FLOWING	DOMESTIC	27	45	23	89	30	42	-	-	6.99	510.00	Ø2/23/82	-

OWNER	WELL STATUS ID	WELL USE		L O N CASE WELL DE MI SE DEPTH DEPTH	WELL CHLORIDE DIAM MG/L	SAMPLE GEPH DATE LOGS
A.M. COLLINS, JR	L1*** FLOWING	RECREATION	29 10 27	81 32 11	10.00 1360.00	3 0 2/ 0 2/82 -
U.S. FOREST SERVICE	L-0060 FLOWING	UNUSED	29 Ø 31	81 23 28 <i>-</i> -	6.00 210.00	ð 12/16/83 -
UNDETERMINED	L2*** FLOWING	OTHER	29 10 2	81 31 27	4.00 410.00	0 02/02/82 -

OMNER	WELL	STATUS	WELL USE	L	A	T	L	0	N	CASE	WELL	WELL	CHLORIDE	SAMPLE	GEPH
	ID			DE	ΜI	SE	DE	MI	SE	DEPTH	DEPTH	DIAM	MG/L	DATE	LO6S
COUNTY RIGHT OF WAY	M2***	FLOWING	UNUSED	29	11	2	81	59	33	_	_	4.00	10.00	Ø1/18/82	-
G.C. HEINEMANN	M4***	FLOWING	OTHER	29	17	43	81	35	15	-	-	6.00		-	-
HASTINGS & GREEN	M-0043	FLOWING	UNUSED	29	23	49	82	5	26	-	-	6.00	-	•	-
HEINEMANN, G.C.	M5***	FLOWING	OTHER	29	17	43	81	35	15	-	-	4.00	-	-	-
LARRY MOODY	M7***	FLOWING	RECREATION	29	17	38	81	35	29	-	-	6.00	-	-	-
PONDEROSA SHORES, IN	M9***	FLOWING	OTHER	29	17	17	81	35	3	-	-	6.99	-	-	•
PONDERROSA SHORES, I	M8***	FLOWING	OTHER	29	17	27	81	35	4	-	-	6.00	-	-	-
UNDETERMINED	M3***	FLOWING	OTHER	29	17	49	81	35	34	-	-	6.00	150.00	Ø1/25/82	•
UNDETERMINED	M6***	FLOWING	UNUSED	29	17	49	81	35	12	-	-	4.00	-	-	-
VANCE, BILL	Mi***	FLOWING	UNUSED	29	27	28	81	55	7	-	-	4.00	15.00	Ø4/22/81	-

NASSAU COUNTY

OWNER	WELL	STATUS	WELL USE	L DE	A IM	•	_	_	• •	CASE DEPTH		DIAM	CHLORIDE MG/L	SAMPLE Date	GEPH LOGS
JOHNSON LAKE	N21**	FLOWING	UNUSED	3Ø	35	49	81	38	54	-	-	2.00	-	-	-
UNDETERMINED	N29++	FLOWING	DOMESTIC	3Ø	34	5	81	31	18	-	-	4.00	30.0	0 03/20/81	-

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OWNER	WELL	STATUS	WELL USE	L A T	L O N CASE WELL	WELL	CHLORIDE SAMPLE	GEPH
	ID			DE MI SE	DE MI SE DEPTH DEPTH	DIAM	MG/L DATE	LOGS
CITY RIGHT OF WAY	0R1**	FLOWING	UNUSED	28 32 14	8Ø 58 34	2.00	390.00 02/05/82	-

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OWNER	WELL ID	STATUS	WELL USE	L DE	••	T SE	L DE	O MI	٠.	CASE DEPTH	WELL DEPTH	MELL	CHLORIDE MG/L	SAMPLE Date	GEPH LOGS
CORPS OF ENGINEERS	P3Ø6*	FLOWING	OTHER	29	33	Ø	81	52	39	195	189	8.99	12.99	Ø3/17/75	-
GEORGIA PACIFIC	P434#	FLOWING	UNUSED	29	49	28	81	39	37	-	-	2.00	175.00	11/16/81	-
MEELEY REED	P433*	FLOWING	RECREATION	29	21	38	81	37	51	-	-	4.99	1755.00	Ø1/28/82	-
RAFAEL PUIG	P428*	FLOWING	UNUSED	29	45	16	81	34	56	-	-	6.00	155.09	11/16/81	-
RAVINE STATE GARDENS	P418*	FLOWING	UNUSED	29	37	59	81	38	34	-	-	3.00	210.00	11/16/81	-
RAVINES STATE GARDEN	P-Ø454	FLOWING	UNUSED	29	37	50	81	38	53	-	-	4.90	150.00	Ø3/16/84	-
RAVINES STATE GARDEN	P-Ø455	FLOWING	UNUSED	29	37	50	81	38	51	-	-	4.00	160.00	Ø3/16/84	-
RAVINES STATE GARDEN	P- 94 56	FLOWING	UNUSED	29	37	5Ø	81	38	50	-	-	4.00	140.00	Ø3/16/84	-
RAVINES STATE GARDEN	P- Ø45 8	FLOWING	UNUSED	29	38	5	81	38	52	-	~	2.69	20.00	Ø3/16/84	-
RAVINES STATE GARDEN	P-Ø459	FLOWING	UNUSED	29	38	6	81	38	53	•	-	2.00	29.00	Ø3/16/84	-
RAVINES STATE GARDEN	P-0457	FLOWING	UNUSED	29	37	54	81	38	46	-	-	2.00	22.00	Ø3/16/84	-
ROBERT REVEL	P-Ø453	FLOWING	UNUSED	29	39	57	81	34	6	-	-	4.00	540.00	01/05/84	-
S.C.L. RAILROAD	P425*	FLOWING	UNUSED	29	35	45	81	4Ø	59	-	-	2.00	-	•	-
TILTON	P- 94 52	FLOWING	UNUSED	29	46	19	81	34	29	-	-	4.00	671.00	01/03/84	-
UNDETERMINED	P17**	UNUSED	UNUSED	29	34	39	81	52	42	-	-	3.00	15 .0 9	Ø3/31/81	-
UNDETERMINED	P414*	FLOWING	UNUSED	29	35	31	81	37	41	-	-	3.00	195.00	Ø4/22/81	-
UNDETERMINED	P415*	FLOWING	OTHER	29	26	34	81	35	33	-	-	0.00	-	-	
UNDETERMINED	P419*	FLOWING	UNUSED	29	41	45	81	37	23	-	-	2.00	95.00	11/18/81	-
UNDETERMINED	P424*	FLOWING	UNUSED	29	49	12	81	36	51	-	-	4.00	285 . 00	12/09/81	-
UNDETERMINED	P429*	FLOWING	UNUSED	29	39	42	81	36	12	-	-	4.69	189.69	11/18/81	-
UNDETERMINED	P436*	FLOWING	UNUSED	29	41	10	81	35	33	-	-	4.00	355. <i>6</i> €	12/01/81	-
UNDETERMINED	P431*	FLOWING	UNUSED	29	26	7	81	31	55	-	-	6.00	-	-	-
UNDETERMINED	P432*	FLOWING	UNUSED	29	40	32	81	37	29	-	-	4.00	110 .0 0	12/09/81	-
UNDETERMINED	P448*	FLOWING	UNUSED	29	37	59	81	38	35	-	-	4.00	-	-	- '
UNDETERMINED	F449*	FLOWING	UNUSED	29	33	58	81	43	39	-	-	4.00	• •	-	-
WHITEHEAD	P-463	FLOWING	STOCK	29	37	7	81	37	47	-	-	4.00	189.99	Ø1/26/82	-

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OWNER	WELL	STATUS	WELL USE	L	A	T	L	0	N	CASE	WELL	WELL	CHLORIDE	SAMPLE	GEPH
	ID			DΕ	MI	SE	DE	MI	SE	DEPTH	DEPTH	DIAM	MG/L	DATE	LOGS
BEN ROBINSON	C 18E21	FLOWING	UNUSED	20	51	1 4	81	20	40	_	_	4.00	_	_	_
DAVIS, J.E.	SJ521	PLUGGED	UNUSED	30	4		81			_	_	3.00	_		
GUANO WILDLIFE MGT.	SJ5Ø2	FLOWING	OTHER	30	-	33	81				_		2/ 44	16160101	-
GULF STREAM LAND & D		FLOWING	UNUSED	30		38				-	-	4.00		19/98/81	
					3		81			-	-	12.00	8.00	Ø 8/31/81	-
PUBLIC DOMAIN	SJ518	FLOWING	UNUSED		51		81			-	-	6.99	-	-	-
	SJ513	FLOWING	UNUSED		54		81			-	-	4.00		Ø1/28/82	-
ST. REGIS	SJ5Ø7	FLOWING	UNUSED	3Ø		54	81			-	-	4.00	180.00	07/0 8/81	-
STEVE GREEN	SJ511	FLOWING	UNUSED	29	55	14	81	19	59	-	1500	6.00	110.00	10/08/81	-
UNDETERMIND	SJ5Ø9	FLOWING	UNDETERMINED	3Ø	3	55	81	23	9	-	-	4.00	100.00	10/07/81	-
UNDETERMINED	SJØ529	FLOWING	UNUSED	29	41	1	81	29	4	-	-	6.00	-	-	-
UNDETERMINED	SJØ53Ø	FLOWING	UNUSED	29	40	52	81	29	6	-	-	6.00	-	-	-
UNDETERMINED	SJ5Ø5	FLOWING	UNUSED	29	57	51	81	26	53	-	-	4.00	45.00	Ø3/31/81	-
UNDETERMINED	SJ5Ø6	FLOWING	UNUSED	29	56	46	81	26	38	-	-	4.00	45.00	Ø3/31/81	-
UNDETERMINED	SJ51Ø	FLOWING	UNUSED	29	55	6	81	19	9	-	-	6.00	160.00	10/07/61	-
UNDETERMINED	SJ512	FLOWING	UNUSED	29	49	23	81	16	23	-	-	6.00	-	-	-
UNDETERMINED	SJ514	FLOWING	UNUSED	3Ø	7	38	81	23	4		-	6.00	20.00	12/02/83	-
UNDETERMINED	SJ519	FLOWING	UNUSED	29	55	39	81	17	44	-	-	6.00	73.00	Ø4/19/84	-
UNDETERMINED	SJ52Ø	FLOWING	UNUSED	29	55	36	81	17	43	-	_	4.00	-	-	-
WEALATKA FRUIT CO	SJØ527	FLOWING	UNUSED	29	41	31	81	29	43	-	-	6.00	-	-	-
WELATKA	SJØ522	FLOWING	UNUSED	29	41	37	81	29	36	-	-	6.90	-	-	-
WELATKA FRUIT CO	SJØ523	FLOWING	UNUSED	29	41	34	81	29	36	_	-	6.00	1740.00	10/12/84	_
MELATKA FRUIT CO	SJØ524	FLOWING	UNUSED	29	41	36			36	_	-	6.00		Ø9/27/84	_
WELATKA FRUIT CO		FLOHING	UNUSED		41		81			_	_	6.00		10/15/84	-
WELATKA FRUIT CO		FLOWING	UNUSED		41	_			36	_	_	6.00		10/15/84	_
WELATKA FRUIT CO		FLOWING	UNUSED			5Ø ·			44	_	_	6.00	-	-	_
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ST. JOHNS RIVER WATER MANAGEMENT DISTRICT REPORT ON THE FREE FLOWING WELL INVENTORY SEMINOLE COUNTY

OWNER	WELL ID	STATUS	WELL USE		•	T SE	_	_		CASE DEPTH	WELL DEPTH	WELL	CHLORIDE MG/L	SAMPLE DATE	GEPH LOGS
COUNTY RIGHT OF WAY	S1***	FLOWING	UNUSED	29	44	4	81	16	26	-	-	2.00	480.00	Ø2/Ø4/82	-
STATE RIGHT OF WAY	52***	FLOWING	PUBLIC	29	43	5	81	19	20	-	-	3.00	12.50	02/05/82	-
UNDETERMINED	S3***	FLOWING	RECREATION	29	49	10	81	26	28	-	-	2.00	-	-	-

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OWNER	WELL	STATUS	WELL USE	L	A	T	L	0	N	CASE	WELL	WELL	CHLORIDE	SAMPLE	GEPH
	ID			DE	MI	SE	DE	MI	SE	DEPTH	DEPTH	DIAM	MG/L	DATE	L06S
A DICU	V_41E0	FLOWING	UNUSED	20	E.4	45	8Ø	F2	25	_	125	6.00	AEG GG	12/Ø8/55	-
		FLOWING				31	89			- 98	879	10.00		Ø8/1Ø/81	YES
CITY OF DAYTONA B			UNUSED										טע. פטער ו	50/15/01	
CITY OF NEW SMYRNA B			INDUSTRIAL	29	_	3	80			139	998	12.00	-	-	YES
J.E. PEARSON		FLOWING	UNUSED			21	81		38	-	-	1.00		Ø2/Ø3/82	-
J.E. PEARSON	V56**	FLOWING	DOMESTIC	29	56	21	81	5	38	-	-	2.00	30.00	Ø2/Ø3/82	-
L. WOODRUFF WILDLIFE	V54**	FLOWING	OTHER	29	3	24	81	22	22	-	-	3.00	100.00	02/02/82	-
LAWERENCE FARMS, INC	V51**	FLOWING	UNUSED	29	7	52	81	21	9	-	-	8.00	3780.00	Ø2/Ø2/82	-
LAWERENCE FARMS, INC	V52**	FLOWING	UNUSED	29	7	48	81	21	9	-	-	8.99	1949.99	02/02/82	-
LAWERENCE FARMS, INC	V53**	FLOWING	UNUSED	29	7	46	81	21	9	-	-	8.00	1700.00	Ø2/Ø3/82	-
MURRY SAMS	V49**	FLOWING	UNUSED	29	8	5	81	21	53	-	-	12.00	520.00	02/02/82	-
MURRY SAMS	V5Ø**	FLOWING	UNUSED	29	8	5	81	21	56	•	-	8.00	510.00	02/02/82	-
STONE IS. HOMEOWNERS	V57**	FLOWING	UNUSED	29	50	42	81	14	8	-	-	8.00	650.00	02/03/82	-
STONE IS. HOMEOWNERS	V58**	FLOWING	UNUSED	29	50	44	81	14	1		-	3.00	620.00	02/04/82	-
UNDETERMINED	V-ØØ94	FLOWING	UNUSED	29	51	44	81	52	21	-	-	8.00	1970.99	02/04/82	-
UNDETERMINED	V-ØØ96	FLOWING	UNUSED	28	52	13	81	16	55	-	-	0.00	25.00	0 2/04/82	-
UNDETERMINED	V-Ø158	FLOWING	UNUSED	29	Ø	3Ø	81	22	53	-	-	4.00	987.00	Ø8/Ø8/84	-
UNDETERMINED	V-Ø185	FLOWING	UNUSED	29	1	48	8Ø	57	28	•	-	6.00	-	-	-
UNDETERMINED	V59**	FLOWING	UNUSED	28	52	45	81	21	43	-	-	3.00	1690.00	02/04/82	-
UNDETERMINED	V6Ø**	FLOWING	UNUSED	29	15	3	81	7	18	-	-	4.00	70.00	Ø1/21/82	-
UNDETERMINED	V61**	FLOWING	UNUSED	29	5	13	81	2	47	-	-	3.00	50.00	Ø1/21/82	-
UNION BAG	V-Ø154	FLOWING	UNUSED	29	15	43	81	32	6	90	116	2.00	5100.00	Ø3/Ø9/56	-
VOLUSIA COUNTY	V-Ø182	FLOWING	UNUSED	29	1	34	89	57	27	-	-	2.00	-	-	-
W.L. TOMPKINS-LEASEE	V-0095	FLOWING	STOCK	29	10	15	81	21	57	-	-	4.00	-	-	-

23

357

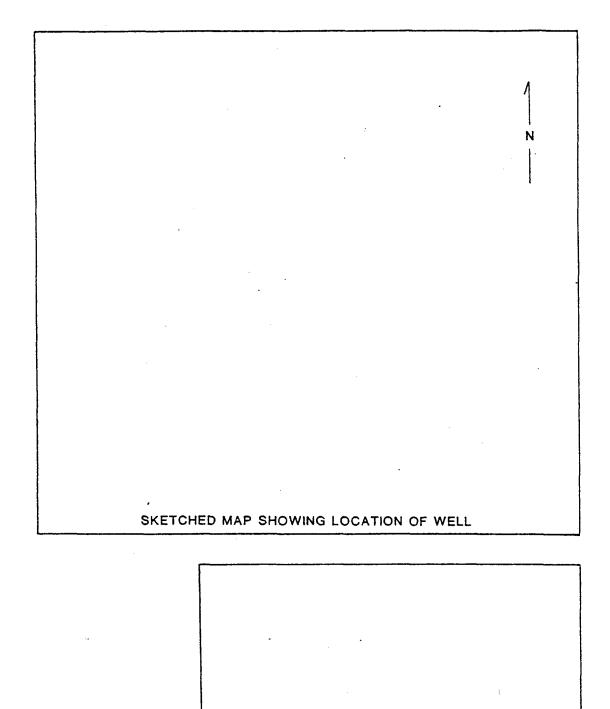
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT LISTING OF ALL WELLS PLUGGED BY THE FREE FLOWING WELL PROGRAM

COUNTY	OWNER	WELL	STATUS	WELL USE			T Se				CASE DEPTH		WELL DIAM
BREVARD	ALLIS-CHALMERS CORP.	BR423	PLUGGED	UNUSED	27	55	53	89	31	38	-	898	12.00
	AQUIRINA	BR437		UNUSED		55		89			195	439	4.00
	AQUIRINA	BR438	PLUGGED	UNUSED		55	•	80				•	3.00
	BEACHWOODS	BR227	PLUGGED	UNUSED	28	1	53	8Ø	32	31	-	-	1.50
	BETHESDA RET HOME	BR17*	PLUGGED	LINUSED	28	1	35	3Ø	35	16	339	1360	4.00
	BREVARD CO. MC	BR78*	PLUGGED	UNUSED	27	52	8	8Ø	27	17	192	449	4.00
	BREVARD CO. MC	BR80*	PLUGGED	UNUSED	27	52	27	89	28	3	193	496	4.09
	BREVARD CO. MC	BR31*	PLUGGED	UNUSED	27	52	31	8Ø	28	7	193	293	4.00
	BREVARD CO. MC	BR82*	PLUGGED	UNUSED	27	53	i	8Ø	28	4	-	-	4.00
	BREVARD CO. MC	BR83*	PLUGGED	UNUSED	27	53	5	8Ø	28	4	193	465	4.99
	BREVARD CO. MC	BR85*	PLUGGED	UNUSED	27	53	57	8Ø	28	17	-	-	4.00
	BREVARD CO. MC	BR86*	PLUGGED	UNUSED	27	54	25	8ø	28	38	101	358	4.00
	BREVARD CO. MC	BR87*	PLUGGED	UNUSED	27	55	13	8Ø	29	36	-	496	4.00
	BREVARD CO. MC	BR91*	PLUGGED	UNUSED	27	56	9	80	39	24	-	386	4.60
	BREVARD CO. MC	ER93*	PLUGGED	UNUSED	27	56	28	8Ø	3Ø	32	163	425	4.00
	COUCH PUMPS	BR623	PLUGGED	UNUSED	27	55	54	88	31	38	159	628	8.00
	DNR-PARKS AND REC.	BR41Ø	PLUGGED	UNUSED	27	52	17	8Ø	27	21	81	392	4.00
	GEN. DEV. CORP.	BR365	PLU6GED	UNUSED	27	55	12	80	41	22		-	2.00
	GEN. DEVELOP. CORP.	BR258	PLUGGED	UNUSED	27	54	59	89	49	11	197	336	6.00
	GEN. DEVELOP. CORP.	BR259	PLU G GED	UNUSED	27	55	3Ø	89	49	59	124	335	6.99
	GEN. DEVELOP. CORP.	BR262	PLUGGED	UNUSED	27	55	46	39	41	45	123	299	6.00
	GEN. DEVELOP. CORP.	BR263	PLU GG ED	UNUSED	27	56	39	8Ø	41	21	82	378	2.90
	GEN. DEVELOP. CORP.	BR278	PLUGGED	UNUSED	27	59	26	80	41	46	127	347	4.99
	GEN. DEVELOP. CORP.	BR282	PLUGGED	UNUSED	28	Ø	7	8Ø	43	37	87	349	6.00
	NASA	BR367	PLUGGED	UNUSED	28	34	14	39	39	12	131	225	4.99
	NASA	BR587	PLUGGED	UNUSED	28	39	44	80	46	33	112	200	4.00
	NASA	BR588	PLUGGED	UNUSED	28	31	34	39	38	2	-	-	4.00
	NASA	BR589	PLUGGED	UNUSED	28	28	45	89	39	35	-	-	4.99
	NASA	BR595	PLUGGED	UNUSED	28	33	43	89	40	14	83	199	4.00
	UNDETERMINED	BR409	PLUGGED	UNUSED	27	52	11	8Ø	27	22	-	466	4.00
BREVARD		.,											30
FLAGLER	WASHINGTON OAKS S.P.	F2Ø8*	PLUGGED	UNUSED	29	37	58	81	12	32	-	380	4.99
ST. JOHNS	DAVIS, J.E.	SJ521	PLUGGED	UNUSED	30	4	5	81	23	16	_	-	3.00

WELL DATA BASE HEADER FILE

0,2										
STATION NAME TOPO GUAD SECTION THEP PINGE GUADRANT										
PROJECT NO. ACUIPER DEPTH CASING WELL PENETRATION CLAMETER [2.0.0.1.8.0.2] , , , , , , , , , , , , , , , , , , ,										
DATE DRILLED WELL USE CODE LEVELS RECORDER OW OWNERS NAME										
OWNERS NAME (CONTINUED) PERIOD OF RECORD YEARS MOS. STATUS FREDUENCY OR										
EXTREME HIGH DAY MONTH YEAR STAGE DAY MONTH YEAR STAGE										
MEASURING POINT (LSD) MEASURING POINT (MSL) MP CODE PUMP TEST CP LOG GL LDG										
DATA SOURCE COMMENTS (72 SPACES)										
WATER QUALITY FILE										
FRIMARY KEY										
STATION CODE LATITUDE LONGITUDE STATION ID MONTH DAY YEAR TIME										
SECONDARY KEY STATION(SAMPLE) NAME COUNTY NO. A Y M 0										
PARAMETERS										
TEMPERATURE (*C) 0,0,0.1.0										
O.C.9.1.5										
0.0.9.2.5										
0.0.9.3.0, 0.0.9.5.0										
[0.0.9.3.5] [, [0.1.0.8.0] [, [, [, [] [] [] [] [] [] [] [] [] [] [] []										
0.0.0.9.51										
SUPATE TOTAL MARONESS [0.0.9.4.5]										
0.0.7.4.6 0.0.9.0.2 0.0.9.0.2 0.0.9.0.2										
9H (FIELD) [O.O.4.0.0] [O.O.4.0.0] TOTAL ALKALMITY CESSCLYED SOL (SUM)										
0.0.4.1.0 70.3.0.1										

sws form 1/10/60 (Reduced from 8-1/2" X 14" Originals.)



PHOTOGRAPH OF WELL

(Reduced from 8-1/2" X 14" Originals.)

APPENDIX D CONTRACTUAL AND COOPERATIVE AGREEMENTS

AGREEMENT.

BETWEEN THE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

AND THE

BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

THIS AGREEMENT is entered into on the <a>11th day of <a>October, 1984, by and between the ST. JOHNS RIVER WATER MANAGEMENT DISTRICT, hereinafter the "DISTRICT", and the BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS, hereinafter "BREVARD COUNTY".

WHEREAS, the waters of the state are among its basic resources and it has been declared to be the policy of the legislature to promote the conservation, development, and proper utilization of surface and ground water, and

WHEREAS, the Legislature has directed the water management districts of the state in Section 373.207 (8)(a), Florida Statutes, to locate all known abandoned artesian wells and insure that each such well is plugged on or before January 1, 1992, and

WHEREAS, proper management of artesian wells is necessary to protect the public health, safety and welfare and to extend the life of the ground water supplies, and

WHEREAS, BREVARD COUNTY, based on information from its "208" program and other water resources investigations, has declared the waste of ground water by uncontrolled free flowing wells to be a serious concern, and

WHEREAS, BREVARD COUNTY has requested the DISTRICT to participate in a cooperative water resource conservation and protection program, and

WHEREAS, the DISTRICT has been established to manage water resources within its geographical area, and

WHEREAS, BREVARD COUNTY and the DISTRICT desire to jointly fund the plugging of uncontrolled free flowing wells located in Brevard County in the amount of Fifty-thousand Dollars (\$50,000) by each party hereto committing Twenty-five Thousand Dollars (\$25,000); and

WHEREAS, BREVARD COUNTY and the DISTRICT intend to have the plugging of uncontrolled free flowing wells performed by qualified independent contractors;

NOW THEREFORE, in consideration of the foregoing premises, which are part of the consideration herein, the parties hereto do mutually agree as

follows:

1. The DISTRICT will:

- A. Obligate for the purposes of this Agreement monies in the amount of Twenty-five Thousand Dollars (\$25,000) for plugging uncontrolled free flowing wells in Brevard County. Said funds are budgeted in Fiscal Year 1984/1985 in Project No. 20-018-02:
- B. Secure the services of a qualified water well contractor for the DISTRICT as follows:
 - develop bid specifications for each well to be plugged in conjunction with BREYARD COUNTY and not solicit bids unless and until DISTRICT and BREYARD COUNTY each approve the specifications; and,
 - let bids and select a water well contractor that best qualifies to the specifications; and,
 - publish notice of solicitation of bids in a newspaper of general circulation in Brevard County as minimum written notice.
- C. Enter into contracts with the water well contractors and then administer each contract as follows:
 - control sub-contracting of services by any contractor who
 is a party to a contract with the DISTRICT requiring that
 no sub-contract can be entered into unless the DISTRICT
 first approves the sub-contractor as being qualified;
 - notify BREVARD COUNTY upon execution of a contract that a contract has been entered and invoice BREVARD COUNTY for payment of one-half (1/2) of the amount of money obligated by the contract;
 - do such other things as are necessary to administer the contracts;
- D. Provide the professional and technical support to water well contractors that enter into contracts with the DISTRICT that is necessary to properly address all aspects of the purposes of this Agreement;
- E. Provide monthly progress reports to BREYARD COUNTY regarding the progress of work contracted.

2. BREVARD COUNTY will:

- A. Obligate for the purposes of this Agreement monies in the amount of Twenty-five Thousand Dollars (\$25,000) for services relating to the plugging of uncontrolled free flowing wells and share expenses on a 50% basis with the DISTRICT for the services of a water well contractor and materials needed by the contrator;
- B. Pay the DISTRICT for work invoiced it by the DISTRICT up to a maximum of Twenty-Five Thousand Dollars (\$25,000) for work and services described in paragraph 2A above;
- C. Be responsible for obtaining the consent of the owner of a well for the contractor to plug free flowing wells and licenses for performing the above-mentioned work.
- 3. DISTRICT and BREYARD COUNTY shall prepare a final report.
- 4. This Agreement shall be effective upon the execution thereof and shall continue until September 30, 1985, except that performance of a contract executed prior to September 30, 1985, shall continue beyond that date and performance under Paragraph 5 shall continue beyond that date.
- 5. The DISTRICT agrees to indemnify and hold harmless BREVARD COUNTY for any tort liability that may be imposed on BREVARD COUNTY due to the action or inaction of DISTRICT while executing its responsibilities under this Agreement, and BREVARD COUNTY agrees to indemnify and hold DISTRICT harmless for any tort liability that may be imposed on DISTRICT due to the action or inaction of BREVARD COUNTY while executing its responsibilities under this agreement.

IN WITNESS WHEREOF, the parties hereto have duly executed this agreement on the date and year ascribed above.

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

y: John J. Miren J. IDWAL H. OWEN, JR., Chaippian

ATTEST:

3 of 4

Legal Form Content Approved

BREVARD COUNTY BOARD OF COUNTY COMMISSIONERS

ATTEST:

EAD, Clerk

Legal Form Content Approved

AGREEMENT FOR

CONTRACTUAL SERVICES

BETWEEN THE

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

Gunto Will Drilley

THIS AGREEMENT, dated 29 day of April , 1982 by and between the St. Johns River Water Management District, a Chapter 373, Florida Statutes water management district located at U.S. Highway 100 West, P.O. Box 1429, Palatka, Florida (hereinafter DISTRICT) and funds with April a Florida Corporation authorized to do business in the State of Florida, located at (hereinafter CONTRACTOR).

WITNESSETH:

WHEREAS, the DISTRICT desires to plug uncontrolled flowing artesian wells in Brevard County and Indian River County; and

WHEREAS, the CONTRACTOR and the DISTRICT have reached an understanding on the type, extent, quality and time of performance and service and/or material to be rendered and the amount and method of compensation to be paid the CONTRACTOR on the project and both wish to reduce it to a written agreement.

NOW, THERFORE, IN CONSIDERATION of these promises and mutual covenants hereinafter set forth, the DISTRICT and CONTRACTOR agree as follows:

I. SCOPE OF SERVICES

Unless otherwise specified and in addition to those services set forth in the CONTRACT DOCUMENTS which comprise this entire agreement and are made a part hereof:

The CONTRACTOR will:

- 1. Provide one (1) complete drilling unit capable of reaming out boreholes and grouting boreholes 1000 feet or greater in depth; a truck capable of safely transporting 100 sacks of cement; all tools and accessories associated with the drilling unit; all tremie pipes and positive pressure pump, piston type or diaphram type; and all necessary manpower to effectuate the performance of this contract.
- 2. Be responsible for the required equipment to be on site and in good operating condition and ready to perform the required work.
- 3. Commence the work within ten (10) calendar days_after receipt of written order to proceed by the DISTRICT.
- 4. Commence and complete work as outlined by work order without interruptions or delays.
- 5. Follow verbal and written direction of DISTRICT representative assigned to the project.
- 6. Otherwise abide by all terms and conditions set forth in the CONTRACT DOCUMENTS.

The DISTRICT will:

1. Provide all cement, additives, burlap socks for the QWIP plugs and like materials, excluding those materials to be furnished by the CONTRACTOR as specified in the CONTRACT DOCUMENTS.

2. Furnish a representative to be on site at all times while work is in progress.

II. FEES FOR SERVICES

- 1. The DISTRICT shall pay the CONTRACTOR for performance of the work and completion of each work order pursuant to the CONTRACT DOCUMENTS, subject to modification as provided therein.
- 2. The DISTRICT shall make progress payments pursuant to the contract price as provided in the CONTRACT DOCUMENTS and upon approval by the DISTRICT of each application for payment provided in the bid specifications.

III. INDEMNIFICATION

The CONTRACTOR agrees to defend, indemnify and save harmless the DISTRICT, its officers, agents and servants, and each and everyone of them against and from all suits or costs of every kind and description including suits, costs, claims and judgments of agents, servants or employees of the CONTRACTOR and of any subcontractors, and from all damages to which the DISTRICT or any of its officers, agents or servants may be subjected by reason of injury to the person or property of others resulting from the performance of the assignment, or through the negligence of the CONTRACTOR, its agents, servants, employees and sub-contractors arising out of the performance of this Agreement; or through any improper or defective machinery, implements of appliances used in the assignment, or through any act or omission on the part of the CONTRACTOR or its agents, servants, employees and sub-contractors.

The CONTRACTOR shall further defend, indemnify and save harm-

less the DISTRICT, its officers, agents and servants from all suits and actions of any kind or character whatsoever, which may be brought or instituted by any sub-contractor, materialman or laborer who has performed work or furnished materials in or about the Project or by, or on account of, any claims or amount recovered for any infringement of patent, trademark or copyright.

So much money due to the CONTRACTOR under and by virtue of the contract as shall be considered necessary by the DISTRICT may be retained by the DISTRICT and held until such suits, actions, claims or amounts have been settled, and suitable evidence to that effect furnished to the DISTRICT.

The obligations of the CONTRACTOR will not extend to any claim, damage, loss or expense arising out of a defect in drawings, opinions, reports, surveys, change orders, designs or specifications prepared or furnished by the DISTRICT, or arising out of the giving by the DISTRICT of erroneous directions or instructions required to be given to the CONTRACTOR, or the failure of the DISTRICT to give directions or instructions required to be given to the CONTRACTOR, provided such instructions or failure to give directions or instructions is the primary cause of the injury or damage.

IV. COMPLIANCE

The CONTRACTOR shall comply with all federal, state and local laws and ordinances applicable to the work or payment for work thereof, and shall not discriminate on the grounds of race, color, religion, sex or national origin in the performance of work under this Agreement.

The CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for the CONTRACTOR to solicit or secure this Agreement; and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for the CONTRACTOR any fee, commission, percentage, gift or any other consideration, contingent upon or resulting from the awarding or making of this Agreement. For breach or violation of this warranty, the DISTRICT shall have the right to annul this Agreement with liability, or at its discretion, to deduct price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift or contingent fee from the Agreement.

The DISTRICT reserves the right to require the CONTRACTOR to remove any employee from the job or to shut down the job at no cost to the DISTRICT if, in the DISTRICT'S opinion, the CONTRACTOR or the employee is not doing the work as required by the Agreement and as directed by the DISTRICT Representative.

V. CONTRACT DOCUMENTS

The CONTRACT DOCUMENTS which comprise this agreement herein between the DISTRICT and CONTRACTOR shall be the following:

- (a) This agreement dated NPNI 27, 1983.
- (b) Bid proposal
- (c) Special Conditions
- (d) General Conditions
- (e) Technical Specifications
- (f) Detailed Plugging Specifications

- (g) Job Sites and Plans as Delineated in Attached Appendices
 - (h) Any Modifications, Including Change Orders

VI. Neither the DISTRICT nor CONTRACTOR shall, without the prior written consent of the other, assign or sublet in whole or part its interest under any of the CONTRACT DOCUMENTS, and specifically, the CONTRACTOR shall not assign any monies due or to become due without the prior written consent of the DISTRICT.

VII. This Agreement may only be altered, amended or repealed by either party by duly executed written instrument. It is also agreed that this Agreement can be terminated and work suspended as specified in the General Conditions of the CONTRACT DOCUMENTS.

VIII. This Agreement is to be binding upon the DISTRICT, its successor or successors and upon the CONTRACTOR, its successor or successors, and shall be terminated in accordance with the provisions of the CONTRACT DOCUMENTS.

IN WITNESS WHEREOF, the parti	es hereto have accepted, made and
-	the terms and conditions above
stated on the 24	day of 4 MPNIX 1983.
WITNESSES	ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
George hun!	Sence At Grion
	FRANCES S. PIGNONE CHAIRMAN

Witness Delge

ATTEST

LEGAL FORM AND CONTENT APPROVED

STAFF ATTORNEY

STATE OF FLORIDA COUNTY OF GLADES

Before me personally appeared George Crumb, to me well known and known to me to be the person described in and who executed the foregoin instrument, and acknowledged to and before me that he executed said instrument for the purposes therein expressed.

WITNESS MY hand and official seal, this 11th day of May A.D., 1983.

(SEAL)

Notary Public, State of Florida at large My commission expires:

Notary Public, State of Florida My Commission Expires Aug. 2, 1986 Bonoed thru troy form insurance, inc.

CONTRACTOR'S PERFORMANCE BOND

STATE OF FLORIDA)

No: FS-106330

COUNTY OF BREVARD)

COUNTY OF INDIAN RIVER)

KNOWN ALL MEN BI THESE PRESENTS that George and Arthur Clumb
d/b/a Crumb Well & Drilling as Principal, hereinafter called Con-
tractor, and Allied Fidelity Insurance Co.
as Surety, hereinafter called Surety, are held and firmly bound
unto St. Johns River Water Management District, as Obligee, here-
inafter called DISTRICT, in the amount of IWENTY FOUR THOUSAND 00/100
Dollars (\$ 24,000.00) for payment whereof Contractor and
Surety bind themselves, their heirs, executors, administrators,
successors and assigns, jointly and severally, firmly by these
presents.

NOW THE TERMS OF THIS INDENTURE ARE:

THOUSE ALL MEN BY MURCE DESCRIPTE

WHEREAS, the Principal and Obligee have entered into the attached written contract dated ______, 19 ____ for the performance of certain contractual work and services in a WELL PLUGGING PROGRAM IN BREVARD COUNTY, FLORIDA.

NOW THEREFORE, if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term of said contract and any extensions thereof that may be granted by the Obligee, with or without notice to the surety, and during the life of any guaranty required under the contract, and shall also well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreement of any and all duly authorized modifications to the surety being hereby waived, then this obligation to be void; otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the said Principal and said Surety hereto have caused these presents to be executed this day of May 19 19 83.

WHEN THE PRINCIPAL	IS AN INDIVIDUAL:	
Signed, sealed and	delivered in the	
presence of:		

Secretary	Correct Name of Corporation
	By:
	President
	(CORPORATE SEAL)
Allied Fidelity Insurance Co. Name of Surety	8945 N. Meridian, Indianapolis, Indiana Address of Surety
	By: Deau a. Lonie
·	Maria A Bassis Assessed Tour

Insurance Co.

8945 North Meridian Street • Indianapolis, Indiana 46260 • 1 (800) 428-5730

AC Nº 022100

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That this Power-of-Attorney is not valid unless attached to the bond which it authorizes executed. It specifies the LIMIT OF THE AGENT'S AUTHORITY AND THE LIABILITY OF THE COMPANY, HEREIN.

USE OF MORE THAN ONE POWER VOIDS THE BOND

ALLIED FI	DELITY INSURANCE	CO., an Indiana corporation, having its principal office in the
City of Indianap	oolis, State of Indiana,	does hereby make, constitute and appoint:
		Maria A. Rossie
in the City of	Coral Gables	, County of,
State of	Florida	, its true and lawful attorney-in-fact, atanvwhere,
as its act and de court, administe miscellaneous b that the liability	ed, bonds, and undertaler or property held in trust onds; required by Feder	to make, execute, seal and deliver for and on its behalf, and cings in behalf of court fiduciaries, who under the jurisdiction of a st; public official bonds; license and permit bonds; tax, lien, and al, State, County, Municipal Authority, or other obligees, provided ty on any such bond executed under this authority shall not in any

THIS POWER VOID IF ALTERED OR ERASED

The acknowledgment and execution of any such document by the said Attorney-In-Fact shall be as binding upon the Company as if such bond had been executed and acknowledged by the regularly elected officers of this Company.

This Power of Attorney is granted and is signed and sealed by facsimile under and by the authority of the following By-Law adopted by the Board of Directors of Allied Fidelity Insurance Co. at a meeting duly called and held on the 29th day of April, 1982:

"The President shall have power and authority to appoint Attorneys-in-Fact, and authorize them to execute, on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other surety and writings obligatory in the nature thereof; and he may at any time in his judgment remove apy such appointees and revoke the authority given to them; and with respect to any Certified Copy of any Power of Attorney, the signatures of any issuing or attesting officer, and the seal of the Company, may be affixed to such Power of Attorney or to any certificate relating thereto, by facsimile; and such facsimile signatures and facsimile seals shall be valid and binding on the Company, in the future, with respect to any bond, undertaking or instrument of suretyship, to which it is attached."

IN WITNESS WHEREOF, Allied Fidelity Insurance Co. has caused its official seal to be hereuntoaffixed and these presents to be signed by its duly authorized officers this 6th day of July, 1982.

ALLIED FIDELITY INSURANCE CO.

Secretary

Β'n

Harold o. Croquart

President

THIS POWER DOES NOT AUTHORIZE THE EXECUTION OF BONDS FOR LOAN GUARANTEES

STATE OF INDIANA COUNTY OF MARION SS

On this 6th day of July, 1982, before me a Notary Public, personally appeared H. O. CROQUART and T. L. EADS, who being by me duly sworn, acknowledged said instrument to be the voluntary act and deed of said Corporation.

Notary Public, Marion County, Indiana My Commission Expires: 10/2/84



- 1. ONLY ONE POWER OF ATTORNEY MAY BE ATTACHED TO A BOND.
- POWER OF ATTORNEY MUST NOT BE RETURNED TO ATTORNEY IN FACT, BUT SHOULD REMAIN A PERMANENT PART OF THE OBLIGEE'S PECORDS.
- THIS POWER DOES NOT AUTHORIZE EXECUTION OF BONDS OF NE EXEAT OR ANY GUARANTEE FOR FAILURE TO PROVIDE PAYMENTS OF ALIMONY SUPPORT OR WAGE LAW CLAIMS, OR BONDS FOR CRIMINAL APPEARANCE.

STATE OF INDIANA COUNTY OF MARION SS:

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I, Frances A. Wilkinson, the Assistant Secretary of Allied Fidelity Insurance Co., do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Allied Fidelity Insurance Co., which is still in full force and effect.

This Certificate may be signed and sealed by facsimile under and by the authority of the following resolution of the Board of Directors of Allied Fidelity Insurance Co. at a meeting duly called and held on the 29th day of April. 1982:

"RESOLVED: That the use of a printed facsimile of the corporate seal of the company and of the signature of an Assistant Secretary on any certification of the correctness of a copy of an instrument executed by the President pursuant to the By-Laws appointing and authorizing an Attorney-in-Fact to sign in the name and on behalf of the company surety bonds, underwritings, undertakings or other instruments described in said By-Laws, with like effect as if such seal and such signature had been manually affixed and made, hereby is authorized and approved."

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said corporation, this

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K VE	01	
	France a. Wilkenson	
	Assistant Secretary	

APPENDIX E

COST TABLES FROM ORIGINAL INVENTORY

AND WORK PLAN, TECHNICAL PUBLICATION SJ 84-3

Tables 1 and 2 have been prepared to show the breakdown and the averages of the actual costs of plugging 16 wells and money expended for District support of the plugging program, during the first three years. Actual costs for plugging includes money spent for contractual services, materials, and equipment rental. Also included in the actual cost of Bethesda Retirement Home project was the cost of District personnel on the job site other than the project manager for the Free Flowing Well Plugging Program. Other projects did not require the services of other District personnel on the job site.

A hydrologist is assigned project manager for the Free Flowing Well Plugging Program. The project manager works full time on the project, which includes organization, inventory, correspondence, and field work related to the project. Other costs incurred would be supportive personnel, administrative personnel, and supportive commodities furnished by the District.

To comply with the guidelines provided by the Department of Environmental Regulations, Tables 3 and 4 were prepared to show estimated future costs. These tables were based upon actual cost incurred over the first three years of the well plugging program. Estimated costs were prepared including a projected 6% inflation rate per year. Table 5 is a summary of Tables 3 & 4 to show the total estimated costs for completing the well plugging project by 1992.

Table 1. Actual Plugging Cost

Sebastian Inlet Project (15 Wells Plugged) Total Cost Average Cost Per Well	\$19,293.14 1,286.21
Bethesda Retirement Home Project (Oil Test Well) Costs	9,968.80
Combined Cost from Both Projects Average Actual Cost Per Well	\$29,261.94 1.828.87

Table 2. Cost to SJRWMD for Program Support (Includes Salaries and Commodities)

Fiscal Year 1980/1981 " " 1981/1982 " " 1982/1983 Sub Total Additional Administrative Cost (12%) Total	\$ 12,725.68 47,337.85 36,440.25 \$ 96,503.78 11,580.45 \$108,084.23
Less Contractual Plugging Cost (Table 1)	\$ 29,261.94
Total Amount Spent for Free Flowing Well Plugging Program Support	\$ 78,822.29
Average Cost Per Year	\$ 26,274.10

Table 3. Estimated Average Cost to SJRWMD Per Year Until 1992 for Program Support

Total Cost for First 3 Years (From Table 2) Average Cost Per Year (From Table 2)			\$ 78,822.29 26,274.10
		Average Cost Per Year Until 1992* • 1983/1984	\$ 27,850.55
11	11	1984/1985	29,521.58
H	11	1985/1986	31,292.87
11	u	1986/1987	33,170.45
4 n	11	1987/1988	35,160.67
н	u	1988/1989	37,270.31
11	11	1989/1990	39,506.53
Ħ	11	1990/1991	41,876.92
11	31	1991/1992	44,389.54
Total of the Average Yearly Support Costs (9 Years)			320,039.42
Estimated Cost Per Well (585 wells) 56			

Table 4. Estimated Cost for Actual Plugging (Based on Average Cost from Table 1)

Number Averag	of W	r of Wells to Plug ells to be Plugged Per Year (9 Years) t Per Well (Table 1) t Per Year	585 65 \$ 1,828.87 118,876.55
Projec	ted A	verage Cost Per Year Until 1992*	
		1983/1984	\$126,009.14
11	11	1984/1985	133,569.69
11	11	1985/1986	141,583.87
11	11	1986/1987	150,078.90
11	н	1987/1988	159,083.64
н	n	1988/1989	168,628.66
11	и	1989/1990	
11	11		178,746.38
11		1990/1991	189,471.16
,,	"	1991/1992	200,839.43
F - 43		atal Cook for Divertor EDE Walls	
		otal Cost for Plugging 585 Wells	** *** *** **
in 9 years			\$1,448,010.87
Estima	ited C	ost Per Well	2,475.23

^{*}Indicates, included 6% inflation rate.

Table 5. Estimated Total Program Cost

Fiscal Year	Estimated Program Support Cost (Table 3)	Estimated Cost for Plugging (Table 4)		timated Total Program Cost
1983/1984 1984/1985 1985/1986 1986/1987 1987/1988 1988/1989 1989/1990 1990/1991	\$27,850.55 29,521.58 31,292.87 33,170.45 35,160.67 37,270.31 39,506.53 41,876.92 44,389.54	\$126,009.14 133,569.69 141.583.87 150,078.90 159,083.64 168,628.66 178,746.38 189,471.16 200,839.43	\$	153.859.69 163.091.27 172,876.74 183,249.35 194,244.31 205,898.97 218,252.91 231,348.08 245,228.97
		Total Cost	\$1	,768,050.29
	Average T	otal Cost Per Well	\$	3,022.31