



**PURCHASING
AND MATERIALS
MANAGEMENT**

**City of Myrtle Beach
SOUTH CAROLINA**

**(843) 918-2170
FAX: (843) 918-2182
www.cityofmyrtlebeach.com**

**Addendum #02
September 13, 2020**

**IFB 23-B0008
Lake Arrowhead/AVX Deep Water Well Abandonment**

The purpose of this Addendum #02 to IFB 23-B0008 for Lake Arrowhead/AVX Deep Water Well Abandonment, dated August 2022, and previously amended on August 31, 2022, is to answer the following questions:

1. Are well construction records available? These are needed to accurately figure grout quantities needed. Are pump depth records available? These are needed to figure what size equipment is needed to remove the existing pumps.

Additional specifications are attached and are hereby made a part of this addendum. The City will not be responsible if dimensions listed differ from what is on site.

2. When is the anticipated Notice to Proceed?

A Notice of Award will be issued approximately one week after bid opening. The awarded contractor will then have ten (10) calendar days to provide all required paperwork. Once all paperwork has been submitted, reviewed, and verified, then a Notice to Proceed will be issued contingent upon when the awarded contractor can begin.

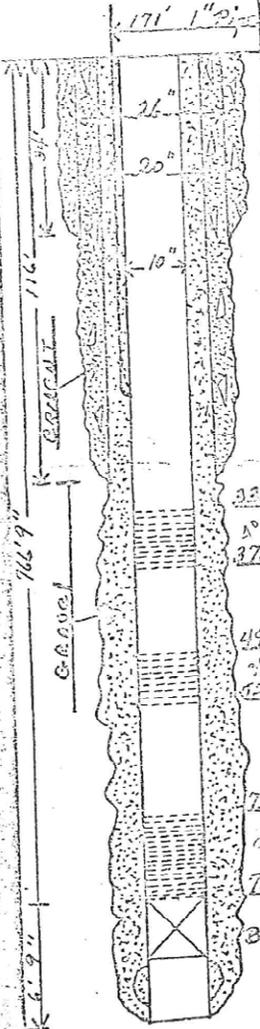
Sealed bids are due in the Purchasing Office no later than 2:00PM (local time) on Tuesday, September 20, 2022. No electronic submissions will be accepted. The City of Myrtle Beach is not responsible for late or misdirected mail.

Thank you,
City of Myrtle Beach
Ann Sowers
Purchasing Manager
Email: asowers@cityofmyrtlebeach.com

Lake Arrowhead

ALL DIMENSIONS FROM BOTTOM (GROUND) (TOP OF CONCRETE) (TOP OF CASING) (TOP DISC PLATE)

DRAWING OF THE WELL



STARTED WELL Feb. 19, 1968 AND COMPLETED March 5, 1968

TOTAL DEPTH 176' 9" ELEVATION _____ STATIC WATER LEVEL 23'

LENGTH SURFACE CASING 34' DIA 26" THICKNESS _____

CEMENTED WITH 30 SACKS CEMENT TYPE PACKER _____

LENGTH WELL CASING 116' DIA 20" WEIGHT _____

CEMENTED WITH 250 SACKS CEMENT TYPE PACKER _____

INNER CASING LENGTH 660' SIZE 10" WEIGHT _____

WITH _____ GUIDES LOCATED 5' 116' 220' TYPE DACKOFF _____

LEAD SEAL _____ CACKPRESSURE VALVE _____

WELL STRAINER MAKE JAWBO SIZE 10" LENGTH 100' OPENING 7/8"

TYPE MATERIAL AIRCO WITH Welded CONNECTIONS _____

SIZE HOLE DRILLED FOR SURFACE CASING 30" WITH _____

SIZE HOLE DRILLED FOR WELL CASING 29" WITH _____

SIZE HOLE DRILLED FOR STRAINER 19" WITH _____

VARDS OF GRAVEL USED 85 TONS HOW PLACED _____

HOW WAS WELL DEVELOPED _____

NOTED: 6.9' Back Pressure Valve and Guide Nipple.

RIG USED Cardwell DRILLER Burrell Cerson

SERIAL NUMBER _____ MAKE _____ FOUNDATION _____

LENGTH COLUMN _____ SIZE _____ TYPE _____ LENGTHS _____

DOWL SIZE _____ TYPE _____ STAGES _____ MATERIAL IMPELLER _____

MATERIAL DOWL WITH _____ PORTS AND _____ SHAFT _____

SUCTION SIZE _____ LENGTH _____ SUCTION STRAINER _____

IS PUMP SEALED HOW _____ WHERE _____ WITH WHAT _____

LUBRICATOR TYPE _____ SIZE _____ VOLTAGE _____

LENGTH OF AIRLINE _____ SIZE _____ TYPE MATERIAL _____

AIR RELEASE VALVE TYPE _____ SIZE _____ DAYTON COUPLING _____

SIZE SURFACE DISCHARGE _____ TYPE _____ SPEED _____

PRESSURE GAUGE _____

NOTES _____

RIG USED TO GET PUMP _____ INSTALLER _____

DATE PUMP INSTALLED _____ IS _____ DATE IN OPERATION _____ IS _____

MAKE _____ HP _____ FRAME _____ PHASE _____ CYCLE _____ VOLT. 220

SPEED _____ MODEL _____ SERIAL NUMBER _____

TOP BEARING _____ BOTTOM BEARING _____ RATCHET _____

STARTER _____ PRESSURE SWITCH _____ FLOAT _____

MAKE _____ MODEL _____ DIA _____ RATIO _____ NO _____

SIZE PULLEY _____ TYPE MOTOR FRAME _____

MAKE _____ MODEL _____ HP _____ SERIAL NUMBER _____

SPEED _____ SIZE PULLEY _____ FOUNDATION _____

TYPE FUEL TANK _____ MAKE MAG _____ NO _____

MAKE STARTER _____ NO _____ TYPE FUEL _____ BELT LENGTH _____

MAKE FLEWELD SHAFT _____ SIZE _____ LENGTH _____

PURPOSE FOR WHICH THIS WATER IS USED _____ CAPACITY _____

TEMPERATURE _____ IS WATER CLEAR _____ PH _____ IRON _____ RACL _____

SAND _____ HARDNESS _____

TYPE TREATMENT USED _____ HEIGHT _____ TYPE _____

IS THERE A DERRICK OVER THE WELL _____

CAN TRUCK OR RIG EASILY GET TO WELL _____

PUMP HOUSE _____ SIZE HATCH _____

MYRTLE BEACH
NO 15

CONTRACT NO. 61727

OUR WELL NO. / THEIR WELL NO. _____ IN TEST HOLE NO. _____

LOCATION OF THE WELL Highway 17 North- Approx. 7 mi. beside radar tower

INSTALLED FOR _____ City of Myrtle Beach

ADDRESS CITY Myrtle Beach COUNTY _____ STATE S. C.

YEAR 1968

FORMATION LOG OF THE WELL OR TEST HOLE

STARTED TEST HOLE _____ IP _____ FINISHED 3-5 1968 TEST HOLE NUMBER 1
 LOCATION Reside Radar Tower SEC _____ TS _____ RANGE _____ ELEVATION _____

TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION	TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION
0-10		Top soil, soft			
10-20		Red Sand, soft			
20-31		Shell, soft			
31-49		Blue clay and shell, hard			
49-110		Blue clay and shell, hard			
110-250		Blue clay, med hard			
250-263		Blue clay, fine pepper sand, med hard			
263-325		Med coarse pepper sand with blue clay and shell, hard and soft streaks			
325-355		Med coarse sand and shell, sand stone, very hard and soft streaks			
355-416		Fine pepper sand and shell, blue clay, hard & soft strks.			
416-447		Blue clay, little sand and shell, med hard			
447-478		Blue clay, hard			
478-539		Fine pepper sand, blue clay and shell, med drilling			
539-600		Blue clay with little sand, very hard			
600-631		Blue clay, fine shell & wood, soft			
631-658		Blue clay, little sand, hard			
658-688		Soft blue clay, soft sand			
688-712		Fine sand, wood & shell, strks of soft blue clay			
712-749		Med coarse pepper sand and wood strks of blue clay hard & soft			
749-771		Coarse sand with strks of blue hard and soft streaks			
771-785		Fine sand and blue clay, hard			
785-811		Blue clay w/little sand, hard			

MUD PIT SIZE _____ FT. X _____ FT. X _____ FT. DEEP
 TYPE BIT USED TO CUT SAND _____
 SIZE OF TEST HOLE THROUGH SAND. 9 7/8
 TYPE OF BIT USED TO CUT UPPER FORMATIONS _____
 SIZE _____
 TYPE OF MUD PUMP USED Laynite
 DRILLING PRESSURE IN SAND _____
 TYPE OF MUD USED _____
 NOTES: _____

TEST DATA	
PRELIMINARY TEST	FINAL TEST
STATIC WATER LEVEL	23'
PUMPED G. P. M.	510
PRESSURE, POUNDS	109
DRAWDOWN	
G. P. F. D.	500
GUARANTEED G. P. M.	
GUARANTEED PRESSURE	April 17, 1968
DATE OF TEST	

REMARKS _____

 DRILLER Burrell Carson
 FIELD SUPT. R. L. Salter

MYRTLE BEACH
NO 15

PART C WELL LOCATION SKETCH:

PART D WELL-CONSTRUCTION DATA

(1) Driller LAINE-ATLANTIC CO. SAVANNAH GEORGIA 912/914-6721
NAME ADDRESS PHONE

(2) Date drilled: Started 3 / 68; Completed N/A
MONTH YEAR MONTH YEAR

(3) Well Depth: Total depth test hole 811 feet; Completed depth 767 feet

(4) Method drilled Rotary Cable tool Other (5) Elevation well site: 7 ft above m determined from Elevation Survey Map (Specify) SEE ATTACHED

(6) Method well development: Developmental pumping Jetting tool Surge block Combination Other (Specify) AIR; how long was well developed _____ (hrs., days). (7) Problems encountered in developing well yes no. If yes, describe _____

(8) Casing record: Material, weight, wall thickness

Diam. <u>26</u> inches; from <u>0</u> to <u>34</u> feet; <u>PIT CASING</u>			
<u>10</u>	<u>34</u>	<u>767</u>	<u>STEEL CASING</u>
_____	_____	_____	_____
_____	_____	_____	_____

(9) Screen record: Single Screen Multiple Screens

Diam. <u>N/A</u> inches, from <u>330</u> to <u>310</u> ft; Type _____ Material _____ Slot Size _____ in			
_____	<u>490</u>	<u>520</u>	<u>LARGE SLOTTED</u>
_____	<u>730</u>	<u>760</u>	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

List additional screen intervals here (in feet below surface) _____

(10) Type drilling mud used (if applicable) _____

(11) Grouting: yes no. From surface to 330 feet; Other (Specify) _____

PART E PUMP DATA

(1) Type Pump TURBINE; make VS; diameter _____ inches. HP 40
 Serial No. _____; volts _____

(2) Installed by DRILLER
NAME ADDRESS PHONE N

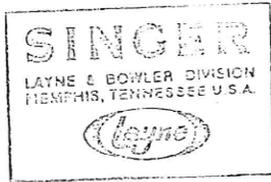
Date Installed 1968
MONTH YEAR

(3) Rated capacity 325 GPM at _____ feet TDH. (4) Calculated TDH at which pump operating _____ f

(5) Under current operating conditions pump can deliver 325 GPM for 24 hours.

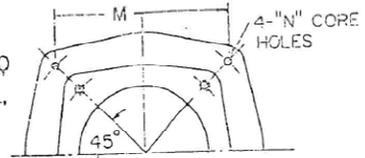
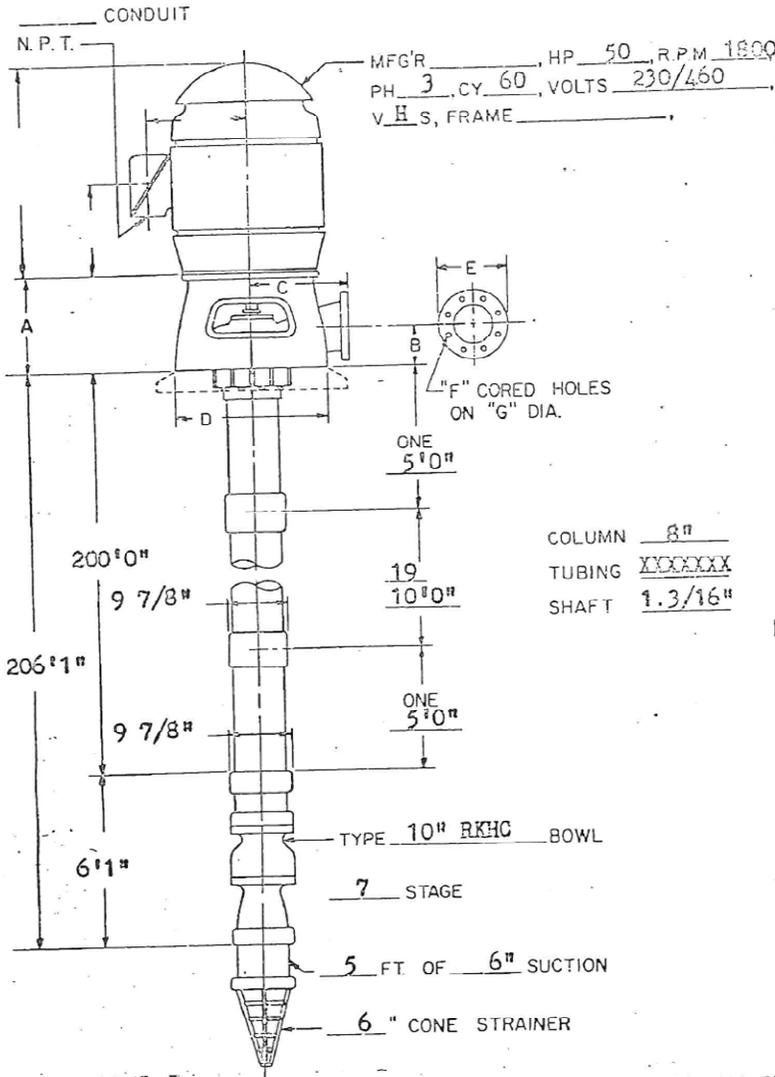
(6) pump intake depth 718 feet below land surface; (7) Has pump intake ever been lowered
 no; if yes, give dates and reasons WATER LEVEL DECLINE 1976 C.O.

UNDERWOOD

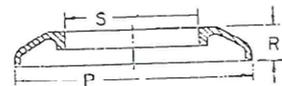


INSTALLATION PLAN
TYPE TF818 DISCHARGE HEAD

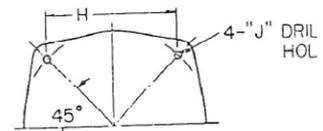
USE THESE DIMENSIONS ONLY
WHEN CERTIFIED BY FACTORY



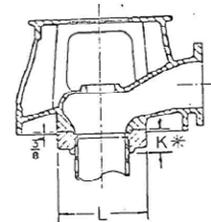
HOLES IN BASE PLATE



BASE PLATE



HOLES IN BASE OF HEAD



SECTION THRU HEAD

* FOR COLUMN SETTINGS OF 200' OR GREATER, "

CUSTOMER: <u>Myrtle Beach</u>	YOUR NO: <u>012523-62506-8</u>	R.P.M. <u>51</u>
LOCATION: <u>Dagwood Beach Hotel</u>	OUR NO: <u>745-5219</u>	T.D.H. <u>3</u>
FOR APPROVAL: _____	PUMP NO: <u>78538-89</u>	R.P.M. <u>1</u>
CERTIFIED: <u>George T. Edwards, III</u>	DATE: <u>9/19/74</u>	B.H.P. _____

HEAD	A	B	C	D	E	F	G	H	J	K*	L	M	N	P	R	S
TF413	13	6	11	18	9	8-3/4	7-1/2	14-1/2	11-1/2	2-3/8	10-15/16	7-3/8	21	2	17	
TF613	14	6	11	18	11	8-3/8	9-1/2	14-1/2	11-1/2	2-7/8	11-15/16	7-3/8	21	2	17	
TF418	13	6	14-1/2	23	9	8-3/4	7-1/2	17-1/2	12-1/2	2-1/8	10-20/32	7-3/8	26-1/2	2-1/4	21-3/4	
TF618	15	6	14-1/2	23	11	8-3/8	9-1/2	17-1/2	13-1/2	2-7/8	12-20/32	7-3/8	26-1/2	2-1/4	21-3/4	
TF818	18	7-3/8	14-1/2	23	13-1/2	8-3/8	11-1/2	17-1/2	15-1/2	3-1/8	13-20/32	7-3/8	26-1/2	2-1/4	21-3/4	
TF1018	18	8-1/2	14-1/2	23	16	12-1/2	14-1/2	17-1/2	18-1/2	3-1/2	16-20/32	7-3/8	26-1/2	2-1/4	21-3/4	
TF625	15	8-1/2	18-1/2	31	11	8-3/8	9-1/2	23-1/2	15-1/2	2-7/8	12-1/2	29	1	38		
TF825	20	8-1/2	18-1/2	31	13-1/2	8-3/8	11-1/2	23-1/2	16-1/2	3-1/8	13-1/2	29	1	38		
TF1025	20	8-1/2	18-1/2	31	16	12-1/2	14-1/2	23-1/2	18-1/2	3-1/2	16-1/2	29	1	38		
TF1225	21	9-1/2	18-1/2	31	19	12-1/2	17	23-1/2	20-1/2	4-1/8	18-1/2	29	1	38		
TF1425	21	10-1/2	18-1/2	31	21	12-1/2	18-1/2	23-1/2	22-1/2	4-1/2	20-1/2	29	1	38		
TF1625	21	11-1/2	18-1/2	31	24	12-1/2	20-1/2	23-1/2	25-1/2	5-1/8	22-1/2	29	1	38		

1. County Horry 2. SCWRC Well #4R-r2
#15-Lake Arrowhead
South Carolina Water Resources Commission
WELL REPORT FORM (Form GW-1)

3. Field # _____ 6. Map Horry & City 9. Date July 30, 1975
Map
4. USGS # HO-268 7. Lat. 33° 46' 12" 10. By Larry D. West
5. Owner's # 15 8. Long. 78° 47' 18" 11. Alt. LSD 25.0'+
12. Owner City of Myrtle Beach (Lk. Arrowhead) Phone # 448-8565
Address c/o City Hall, 10th Ave, N. Myrtle Beach, S.c. 29577

13. Source Data Layne Well Completion File Phone # 912/964-6721
Address Savannah, Ga.

14. Engineer Harwood Beebe & Associates Phone # _____
Address Florence, S.C.

15. Driller Layne-Atlantic Co. Phone # 912-964-6721
Address Savannah, Georgia

16. Date drilled 3-5-68 17. Depth 811 Total Test
18. Hole X ft. 19. Completion 767 ft.

20. Source 21. Date 3-5-68 22. Method drilled Hydraulic Rotary

23. Method devel. air

Well Construction: 24. Type Finish Gravel Filter

25. Casing record: Diam., type, depths From land surface to 34' is 26"
pit casing, then 10" steel casing to 767ft.

26. Screen record: Diam., type, depths, slot size Screens are Layne
Shutter type, settings are from 330'-370', 490'-520', and 730'-760'

27. Grouting, collars, etc. Grout was pumped in from land surface to
330ft. below L.S.D.

28. Well location sketch:

29. Remarks:

Pump record:

30. Type Turbine 31. H.P. 40 32. Make U.S. 33. Serial # _____
34. Intake depth 116'+ 35. Installed by Layne-Atlantic 36. Date 1968
37. Desc. M.P. Top of casing above land surface 38. Alt. LSD 25.0+
39. Source U.S.G.S. quad.

Water level data:

40. SWL 23.0 41. Source Layne 42. Date 1968 43. Meth. Meas. steel
tape
44. PWL 147.0 45. at 325 gpm 46. after 24 hrs. 47. Q/S= 2.21
48. P-test _____ 49. Date _____ 50. By _____
51. Aq. test _____ 52. Date _____ 53. By _____

Production data:

54. Q 325 55. Source _____ 56. Meth. Meas. _____ 57. Date _____
58. Production level 147ft. 59. Source Files

Technical data:

60. Driller's log X 61. Geol. samples _____ 62. Lith. log _____ 63. Sieve analy. _____
64. Geophysical logs: single point elec. X standard elec. _____ gamma _____
neutron _____ gamma gamma _____ induction _____ caliper _____ micro-contact _____ sonic _____
televiwer _____ fluid cond. _____ lateral _____ temp. _____ fluid vel. _____ other _____
65. Chemical analy. X 66. Type Comp1 67. By D.H.E.C. 68. Date 7-11-72
69. Spec. cond. _____ 70. Temp. _____ 71. pH 8.5 72. Calcium 2.8
73. Magnesium 1.2 74. Hardness 12 75. Iron 0.176 76. Fluoride 5.0
77. Chloride 215 78. TDS 848 79. Turbidity _____ 80. Total alk. 590
81. Taste _____ 82. Color _____ 83. Other Sodium=420
84. Water Use Public Supply 85. Meter # yes
86. Meter # _____
87. Topo. well site Flat 88. Aquifer(s) Black Creek
89. Remarks _____

JOB City of Myrtle Beach, South Carolina
Lake Arrowhead

PUMP
 SERIAL

WELL: Number	<u>15</u>	CONDITIONS: Required Capacity	_____ GPM
Depth	<u>761.2</u> ft.	Pumping Level	_____ ft.
Diameter	<u>10</u> in.	Head Above	_____ lbs.
Static Level	<u>107.7</u> ft.	Total Head	_____ ft.
6-10-81 Tested Capacity	<u>400</u> GPM	Depth of Setting	<u>320</u> ft.
Pumping Level	<u>187</u> ft. & 70 PSI		

MOTOR: HP	<u>60</u>	Volts	<u>230/460</u>	Phase	<u>3</u>	Undrive	_____
RPM	<u>1750</u>	Amps	<u>146-73</u>	Model	<u>5K6254XN5228</u>	Nema	_____
MAKE	<u>GE</u>	Cycles	<u>60</u>	Frame	<u>C364TP16</u>	Serial	<u>CTJ 311336</u>

Drawing 130 amps.

HEAD: Type	<u>C/D 6x12</u>	Column Flange	_____	Packing Gland	_____
Style	_____	Discharge Flange	_____	Packing	<u>3/8"</u>
Serial	_____				

COLUMN AND SHAFT: 320 ft. of 6" X 1 1/4" Flush, Soldered 8, 14 thd.
 Stuffing box ~~Shaft~~ 1/4" X 1/4" X 65"
 with _____ sleeve _____ from top
 Bottom Shaft 1/4" X 1 1/4" X 10'
 Top Column 6" X 6" X 10'
6" X 6" X 10'

TURBINE: C/D	Size	<u>L10</u>	Design	<u>4700</u>		
	Stages	<u>9 stage</u>	Shaft	_____ X _____	Projection	_____
			Impellers Symbol	<u>32637</u>		

SECTION PIPE: ----- ft. of _____

STRAINER: 6 DATE INSTALLED: 6/6/81

City of Myrtle Beach,
 Myrtle Beach, S.C.
 Well 23 R
 Log # 56555-7

4/19/84
 Rig 69

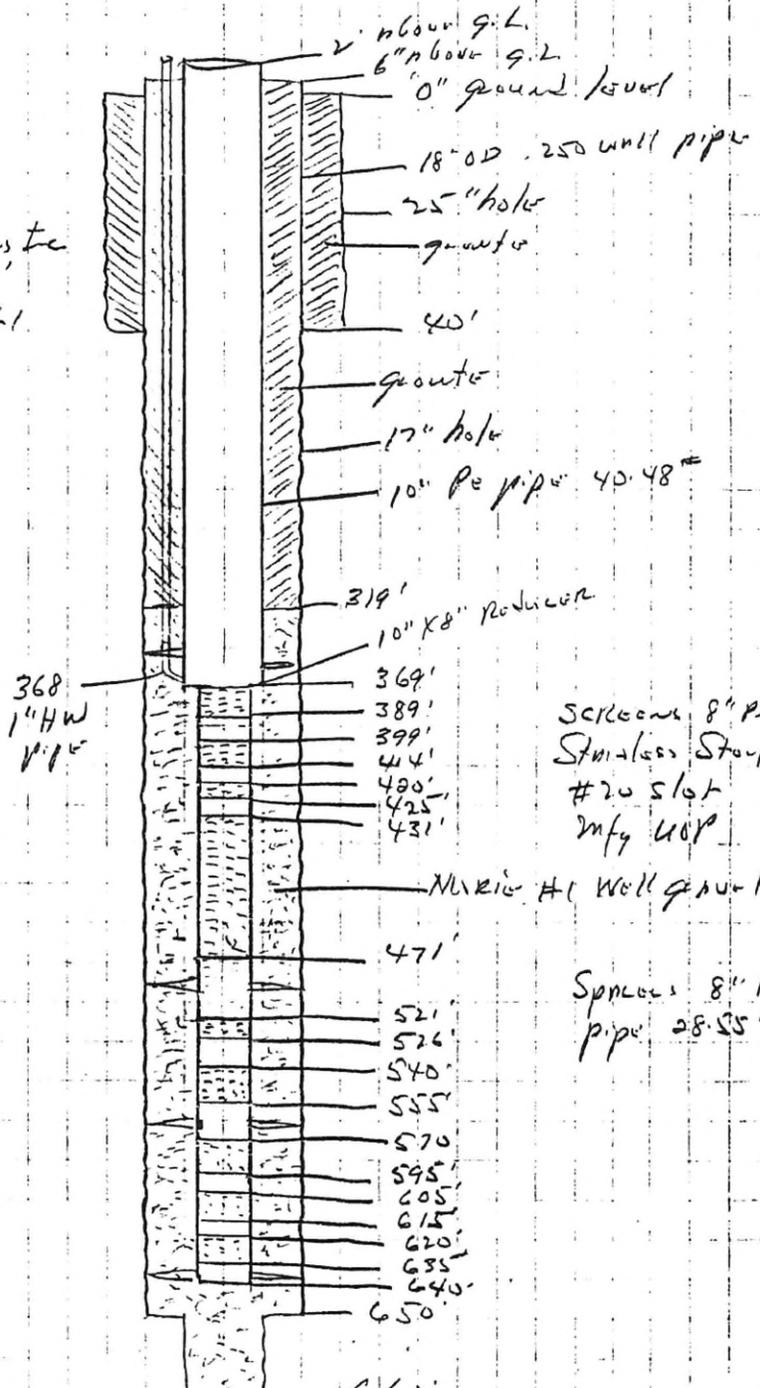
Drilled by

Sydney Hydro-dynamics, Inc.
 P.O. Box 27186
 Richmond, Va. 23221

Driller

Lomnic Cox

No Scale: No. 2115



SYDNOR HYDRODYNAMICS, INC.

WELL TEST INFORMATION SHEET

CUSTOMER: City of Myrtle Beach DATE STARTED: 04-11-84
DATE COMPLETED: 04-12-84
LOCATION: Myrtle Beach, South Carolina WELL TEST NO.: 1
23R JOB NUMBER: 56555-7

WELL DESCRIPTION: Sand or Screened Well (X) Rock Well ()
Total Depth 640 Ft. Size 10" to 369 and 8" to 640
Casing Depth 640 Ft. Screens 369-389, 399-414, 420-425, 431-471
521-526, 545-555, 570-595, 605-615
620-635
Construction: Domestic () Class 11-B () 11-A () 1 (1)
Static Water Level 152 Ft. Measured 04-11-84 Date
Description of Formations: Sand, Clay, Shell, and Shellrock

TEST PUMP: Turbine (X) Sumo () Piston () Air () Bailer ()
Pump Intake 360 Ft. Below Ground; Air Line M-Scope Ft. Below Ground
Size Pump Discharge 5" Metering Device Orifice 6" X 5"
Description of Pump 10" Turbine - 6' Column
453 Diesel Unit

TEST DATA: Static Level Before Installing Pump 152 Ft.
Air Line PSI Before Starting Pump; Time of Measurement
Time Test Pump Started 11:00 a.m.; Time Test Pump Stopped 11:00 a.m.
Total Hours Pumped 24 Final Capacity 503 GPM @ 215 Ft.
Static Level 156'-11 1/2" Ft., Ft., 12 Hr. Min. After Pump Stopped.

INSTRUCTIONS: For the first hour of pumping, take readings at least every 5 minutes and thereafter at least every 15 minutes. Obtain two 1-gallon representative samples of water near the end of the test. If possible, measure recovery for time equal to 1/3 length of the test.

Sample to F & R - 04-13-84

*OK
C.C.W.
5/2/84*

City of Myrtle Beach
24 Hour Pump Test

Readings 2' Above Ground Level
Job #: 56555-7

April 11, 1984

TIME OF READING HR. MIN.	ORIFICE READING INCHES	TIME TO FILL CONT. MIN. SEC.	AIR LINE PSI	TAPE READING FEET	PUMP DISCHARGE GPM	PUMPING LEVEL FEET	REMARKS - (e.g., water clear, cloudy, taking air, etc.)
11:00 a.m.				152			
11:05				195-3	503	195-3	Cloudy
11:10				197-4 $\frac{1}{2}$	503	197-4 $\frac{1}{2}$	Cloudy
11:15				198-2	503	198-2	Cloudy
11:20				199-3 $\frac{1}{2}$	503	199-3 $\frac{1}{2}$	Cloudy
11:25				199-7 $\frac{1}{2}$	503	199-7 $\frac{1}{2}$	Cloudy
11:30				200-8	503	200-8	Cloudy
11:35				200-11	503	200-11	Clear
11:40				201-5 $\frac{1}{2}$	503	201-5 $\frac{1}{2}$	Clear
11:45				201-11 $\frac{1}{2}$	503	201-11 $\frac{1}{2}$	Clear
11:50				202-4 $\frac{1}{2}$	503	202-4 $\frac{1}{2}$	Clear
11:55				202-7	503	202-7	Clear
12:00				203	503	203	Clear
12:05				203-1 $\frac{1}{2}$	503	203-1 $\frac{1}{2}$	Clear
12:10				203-2	503	203-2	Clear
12:15				203-7	503	203-7	Clear
12:20				203-8	503	203-8	Clear
12:25				203-11	503	203-11	Clear
12:30				204-2	503	204-2	Clear
12:35				204-3	503	204-3	Clear
12:40				204-4	503	204-4	Clear
12:45				204-9 $\frac{1}{2}$	503	204-9 $\frac{1}{2}$	Clear
12:50				204-5	503	204-5	Clear
12:55				204-8 $\frac{1}{2}$	503	204-8 $\frac{1}{2}$	Clear
1:00				205	503	205	Clear
1:15				205-4 $\frac{1}{2}$	503	205-4 $\frac{1}{2}$	Clear
1:30				205-10 $\frac{1}{2}$	503	205-10 $\frac{1}{2}$	Clear
1:45				206-8 $\frac{1}{2}$	503	206-8 $\frac{1}{2}$	Clear
2:00				206-11 $\frac{1}{2}$	503	206-11 $\frac{1}{2}$	Clear
2:15				207- $\frac{1}{2}$	503	207- $\frac{1}{2}$	Clear

DATE: April 11, 1984

DATA BY: Cox & Kelly

DATA SHEET NO. One (1)

Readings 2' Above Ground Level

TIME OF READING HR. MIN.	ORIFICE READING INCHES	TIME TO FILL CONT. MIN. SEC.	AIR LINE PSI	TAPE READING FEET	PUMP DISCHARGE GPM	PUMPING LEVEL FEET	REMARKS - (e.g., water clear, cloudy, taking air, etc.)
2:30				207- $\frac{1}{2}$	503	207- $\frac{1}{2}$	Clear
2:45				207-3	503	207-3	Clear
3:00				207-4	503	207-4	Clear
3:30				208	503	208	Clear
4:00				209-11	503	209-11	Clear
4:30				210-3 $\frac{1}{2}$	503	210-3 $\frac{1}{2}$	Clear
5:00				210-4	503	210-4	Clear
5:30				210-10	503	210-10	Clear
6:00				211-4 $\frac{1}{2}$	503	211-4 $\frac{1}{2}$	Clear
6:30				211-7	503	211-7	Clear
7:00				211-10	503	211-10	Clear
7:30				212-3	503	212-3	Clear
8:00				212-4	503	212-4	Clear
8:30				212-6	503	212-6	Clear
9:00				212-7 $\frac{1}{2}$	503	212-7 $\frac{1}{2}$	Clear
9:30				212-9 $\frac{1}{2}$	503	212-9 $\frac{1}{2}$	Clear
10:00				213-1	503	213-1	Clear
11:00				213-4	503	213-4	Clear
12:00				213-8	503	213-8	Clear
1:00				213-11	503	213-11	Clear
2:00				214-4	503	214-4	Clear
3:00				214-5	503	214-5	Clear
4:00				214-5 $\frac{1}{2}$	503	214-5 $\frac{1}{2}$	Clear
5:00				214-7 $\frac{1}{2}$	503	214-7 $\frac{1}{2}$	Clear
6:00				214-10	503	214-10	Clear
7:00				215	503	215	Clear
8:00				215	503	215	Clear
9:00				215	503	215	Clear
10:00				215	503	215	Clear
11:00				215	503	215	Clear

DATE: April 11.-12, 1984 DATA BY: Cox & Kelly DATA SHEET NO. Two (2)

READINGS 2' ABOVE GROUND LEVEL
Recovery

TIME OF READING HR. MIN.	ORIFICE READING INCHES	TIME TO FILL CONT. MIN. SEC.	AIR LINE PSI	TAPE READING FEET	PUMP DISCHARGE GPM	PUMPING LEVEL FEET	REMARKS - (e.g., water clear, cloudy, taking air, etc.)
11:05				175			
11:10				172-5			
11:15				171-1			
11:20				170			
11:25				169-2½			
11:30				168-6			
11:35				167-10½			
11:40				167-7			
11:45				166-11			
11:50				166-2			
11:55				165-10½			
12:00				165-8½			
12:05				165-7			
12:10				165-3½			
12:15				165			
12:20				164-9			
12:25				164-6½			
12:30				164-4			
12:35				164-2			
12:40				163-11½			
12:45				163-9			
12:50				163-7			
12:55				163-5			
1:00				163-3½			
1:15				162-10			
1:30				162-5			
1:45				162			
2:00				161-6½			
2:15				161-5½			
2:30				161-5½			

DATE: April 12, 1984 DATA BY: Cox & Kelly DATA SHEET NO. Three (3)

