NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL MANAGEMENT
GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH, NC 27611
(919) 733-3221

TANK SIZE
WELL #1

PUMPING TEST RECORD

Test Conducted by: Jamy Benson

Well Construction Permit. No. _____

1 WELL LOCATION: Nearest Town: Marshall County: Madison
DERRINGER DRIVE Latitude: _____ Longitude: _____
(Road No., Community, or Subdivision and Lot No.)

2 OWNER: Town of Marshall
Name Address

3 USE OF WELL: ( ) Domestic (✓) Public ( ) Industrial ( ) Irrigation ( ) _____ Other

4 WELL DEPTH: 720' ft. Casing Diameter: 8 in. Casing type: Galvanized Steel

5 DRILLING CONTRACTOR: McCall Brothers Was casing grouted? Yes

6 STATIC WATER LEVEL: 208' ft. above/below top of casing.
Date Measured: 3-23-2012 Casing is 1'4" ft. above land surface.

7 WELL YIELD: 88 gpm Specific Capacity: 0.6162 gpm/ft.-dd.

8 PUMPING WATER LEVEL: 350.8 ft. after 24 hours at 88 gpm.

9 CHLORINATION: Type: Dry granular chlorine Amount: 3 lbs (48 oz)

10 TIME AND DATE: PUMP STARTED 11:50 am 3-23-2012 PUMP STOPPED: 11:50 am 3-24-2012

11 WATER LEVEL MEASURING DEVICE: electric tape FLOW MEASURING DEVICE: water meter

12 TEST PUMP: Type: Submersible Make: Grundfos Horse Power: 20 HP
Capacity 100 gpm at 480 T D H. Intake Depth 462' ft.

Time	Water Level	Pumping Rate		Elapsed Time	Remarks
11:50	208.0			00	
11:51	236.0	110	1 min	01	
11:52	250.9	110		02	
11:53	258.5	110		03	
11:54	263.8	107		04	
11:55	267.8	107		05	
11:56	270.5	107		06	
11:57	272.8	105		07	
11:58	273.5	105		08	
11:59	274.4	105		09	
12:00	277.4	105		10	
12:02	279.8	105	2 min	12	
12:04	281.4	105		14	

Time	Water Level	Pumping Rate		Elapsed Time	Remarks
12:06	283.8	103		16	
12:08	284.9	103		18	
12:10	285.6	103		20	
12:15	289.0	103	5 min	25	
12:20	290.9	103		30	1/2 hour
12:25	292.1	103		35	
12:30	293.5	103		40	
12:35	295.9	103		45	
12:40	297.5	103		50	
12:45	299.0	103		55	
12:50	300.0	103		60	1 hour
1:00	303.0	103	10 min	70	
1:10	303.8	103		80	
1:20	305.5	103		90	
1:30	308.0	103		100	
1:40	309.5	102		110	
1:50	311.3	102		120	2 hours
2:05	313.5	102	15 min	135	
2:20	314.5	102		150	
2:35	316.3	102		165	
2:50	318.1	101		180	3 hours
3:05	320.3	100		195	
3:20	321.3	100		210	
3:35	322.4	100		225	
3:50	324.0	100		240	4 hours
4:20	326.9	100	30 min	270	
4:50	328.9	98		300	5 hours
5:20	331.0	98		330	
5:50	333.7	98		360	6 hours
6:20	335.8	98		390	
6:50	338.4	98		420	7 hours
7:50	342.8	97	1 hour	480	8 hours
8:50	346.8	95		540	9 hours
9:50	348.9	93		600	10 hours
10:50	350.0	92		660	11 hours
11:50	350.8	92		720	12 hours
12:50	350.8	92		780	
1:50	350.8	92		840	
2:50	350.8	91		900	
3:50	350.8	90		960	
4:50	350.8	90		1020	
5:50	350.8	90		1080	
6:50	350.8	89		1140	
7:50	350.8	88		1200	
8:50	350.8	88		1260	
9:50	350.8	88		1320	

Time	Water Level	Pumping Rate		Elapsed Time	Remarks
10:50	350.8	88		1380	
11:50	350.8	88		1440	24 hours
11:50	350.8				Stop Pump - Begin Recovery
11:51	336.0		1 min	01	
11:52	326.0			02	
11:53	321.0			03	
11:54	311.0			04	
11:55	310.5			05	
11:56	307.5			06	
11:57	306.0			07	
11:58	304.5			08	
11:59	303.0			09	
12:00	302.0			10	
12:02	300.5		2 min	12	
12:04	299.0			14	
12:06	297.7			16	
12:08	297.0			18	
12:10	296.0			20	
12:15	294.7		5 min	25	
12:20	293.5			30	1/2 hour
12:25	293.0			35	
12:30	292.0			40	
12:35	291.5			45	
12:40	291.0			50	
12:45	290.0			55	
12:50	289.5			60	1 hour
1:00	288.6		10 min	70	
1:10	287.9			80	
1:20	287.1			90	
1:30	286.3			100	
1:40	285.5			110	
1:50	284.7			120	2 hours
			15 min	135	
				150	
				165	
				180	3 hours
				195	
				210	
				225	
			30 min	240	4 hours
				270	
				300	5 hours
				330	
				360	6 hours
					End Recovery