

66399

Sargent DrillingINDUSTRIAL ENGINEERING
COMPLETE MUNICIPAL AND INDUSTRIAL
WELL AND PUMP SERVICEPO Box 367
846 South 13th St.
Geneva, NE 68361-0367

DNR #12

T94 N R45W
Sec 35
RBCB
244 149 00
4756 943.75Phone: (402) 759-3902
Toll Free: (888) 496-3902
Fax: (402) 759-4960**Driller's Log**

Customer:	Orange City, IA		Legal:	
Date Construction Started:	7/18/2006		GPS Reading:	°
Well Depth:	475'		Bore Hole:	19"
Type of Plain Casing:	Steel		Casing Dia.:	14"
From:	0'	To	350'	
Type of Perf. Casing:	Stainless V-Wire		Casing Dia.:	10"
Slot size:	.030"	From:	350'	To
Sump From:			Type of Bottom:	Stainless Steel
Gravel From:	Northern		Grade Size:	0
Yards of Gravel:	8 Super Sacks		Bags of Chunks:	2 Super Sacks
Bags of Powder:			Yards of Concrete:	6
Stabilizers:	6	Well Development Time:		
Test Pump Results:		SWL:		
	GPM from			
	GPM from			
	GPM from			
	GPM from			

Ground Level

1' - 295' Concrete grout

295' - 300' Bentonite

300' - 475' Chlorinated gravel pack

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S.W. #3 #12 For DWR

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24-HOUR CONSTANT RATE TEST LOG

CUSTOMER: Orange City, IA	
WELL ID: Production Well	WELL TYPE: Production Well
TEST START DATE: 7-31-06	TEST END DATE: 8-01-06
READINGS TAKEN BY: Doug Miller	
STATIC WATER LEVELS: PRODUCTION WELL: 156'	TEST WELL: OBSERVATION WELL:
ACTUAL START TIME (am/pm): 9:00 am	
REFERENCE POINT:	DISTANCE FROM REFERENCE POINT TO GROUND:

Time After Start	Actual Time (am/pm)	Production Well		Test Well Water Level (ft. in.)	Observation Well Water Level (ft. in.)
		Pumping Water Level (ft. in.)	Pump Rate (gpm)		
0 min	9:00 am				
1 min	9:01 am	196' 3"	1004		
2 min	9:02 am	200' 9"	1004		
3 min	9:03 am	202' 6"	1004		
4 min	9:04 am	204' 3"	1004		
5 min	9:05 am	205' 4"	1004		
6 min	9:06 am	205' 11"	1004		
7 min	9:07 am	206' 10"	1000		
8 min	9:08 am	207' 5"	1000		
9 min	9:09 am	208' 4"	1000		
10 min	9:10 am	208' 7"	996		
12 min	9:12 am	210' 8"	1011		
14 min	9:14 am	211' 6"	1011		
16 min	9:16 am	212' 4"	1011		
18 min	9:18 am	212' 10"	1011		
20 min	9:20 am	213' 8"	1004		
25 min	9:25 am	214' 8"	1004		
30 min	9:30 am	215' 7"	1004		
35 min	9:35 am	216' 4"	1000		
40 min	9:40 am	217' 2"	1000		
45 min	9:45 am	217' 10"	1000		
50 min	9:50 am	218' 6"	1000		
55 min	9:55 am	218' 8"	1000		

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		Pumping Water Level (ft. in.)	Pump Rate (gpm)		
1 hr	10:00 am	219'	996		
1 hr 30 min	10:30 am	220'	996		
2 hr	11:00 am	221' 1"	988		
2 hr 30 min	11:30 am	221' 7"	988		
3 hr	12:00 pm	221' 11"	980		
3 hr 30 min	12:30 pm	222' 2"	976		
4 hr	1:00 pm	222' 5"	972		
4 hr 30 min	1:30 pm	222' 6"	1026		
5 hr	2:00 pm	223'	1026		
6 hr	3:00 pm	226'	1026		
7 hr	4:00 pm	229'	1026		
8 hr	5:00 pm	229' 4"	1026		
9 hr	6:00 pm	229' 6"	1026		
10 hr	7:00 pm	229' 8"	1026		
11 hr	8:00 pm	229' 10"	1019		
12 hr	9:00 pm	230' 1"	1019		
13 hr	10:00 pm	230' 3"	1019		
14 hr	11:00 pm	230' 5"	1019		
15 hr	12:00 am	230' 7"	1019		
16 hr	1:00 am	230' 9"	1019		
17 hr	2:00 am	230' 11"	1019		
18 hr	3:00 am	231'	1019		
19 hr	4:00 am	231' 2"	1015		

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Time After Start	Actual Time (am/pm)	Production Well		Test Well Water Level (ft. in.)	Observation Well Water Level (ft. in.)
		Pumping Water Level (ft. in.)	Pump Rate (gpm)		
20hr	5:00 am	231' 4"	1015		
21 hr	6:00 am	231' 6"	1015		
22 hr	7:00 am	231' 10"	1015		
23 hr	8:00 am	232'	1015		
24 hr	9:00 am	232' 2"	1015		

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[illegible]

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CONSTANT RATE RECOVERY LOG

CUSTOMER: Orange City, IA	
WELL ID: Production Well	WELL TYPE: Production Well
TEST START DATE: 8-1-06	TEST END DATE: 8-1-06
READINGS TAKEN BY: Doug Miller	
STATIC WATER LEVELS: PRODUCTION WELL: 156'	TEST WELL: OBSERVATION WELL:
ACTUAL START TIME (am/pm): 9:01 am	
REFERENCE POINT:	DISTANCE FROM REFERENCE POINT TO GROUND:

Time After Start	Actual Time (am/pm)	Production Well		Test Well Water Level (ft. in.)	Observation Well Water Level (ft. in.)
		Pumping Water Level (ft. in.)	Pump Rate (gpm)		
0 min	9:00 am				
1 min	9:01 am	196' 6"			
2 min	9:02 am	188' 6"			
3 min	9:03 am	184'			
4 min	9:04 am	183' 4"			
5 min	9:05 am	182' 1"			
6 min	9:06 am	181'			
7 min	9:07 am	180' 6"			
8 min	9:08 am	179'			
9 min	9:09 am	178' 10"			
10 min	9:10 am	178' 2"			
12 min	9:12 am	177' 3"			
14 min	9:14 am	175' 11"			
16 min	9:16 am	174' 6"			
18 min	9:18 am	173' 9"			
20 min	9:20 am	173'			
25 min	9:25 am	172' 8"			
30 min	9:30 am	171' 10"			
35 min	9:35 am	170' 8"			
40 min	9:40 am	170' 1"			
45 min	9:45 am	169' 8"			
50 min	9:50 am	169'			
55 min	9:55 am	168' 4"			

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		Pumping Water Level (ft. in.)	Pump Rate (gpm)		

RECOVERY LOG

0 min					
1 min					
2 min					
3 min					
4 min					
5 min					
6 min					
7 min					
8 min					
9 min					
10 min					
15 min					
20 min					
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30 min					
35 min					
40 min					
45 min					

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REFERENCE POINT:	DISTANCE FROM REFERENCE POINT TO GROUND:

Time After Start	Actual Time (am/pm)	Production Well		Test Well Water Level (ft. in.)	Observation Well Water Level (ft. in.)
		Pumping Water Level (ft. in.)	Pump Rate (gpm)		
50 min					
55 min					
1 hr					