

#117

Last

First

Middle Initial

ID Number

# MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES #B - PERCOLATION TEST RESULTS EXERCISE #117

Property Owner _ Rod Simon (C-store) _____	Site Address __ 12773 Jefferson _____
Depth of Hole _ 30 _____ inches	Test Hole Location __ West side of lot _____
Diameter of Hole __ 6 _____ inches	Date Holes Were Prepared __ 2-1-10 _____
Depth to Restrictive Layer __ 24" _____	Time Holes Were Initially Filled __ 12:50 pm _____
Type of Restrictive Layer __ Clay layer _____	Date Test Performed __ 2-2-10 _____
% Chert __ 40% _____	Time Test Was Started __ 8:30 am _____
Name of Tester __ Al Trader _____	Tester ID No. __ 21378 _____

Test Hole 1

Time	Interval (minutes)	Water Drop (fraction)	Water Drop (decimal)	Perc Rate
8:30	30	1/8"		
9:00	30		0.25	120
9:30	30	1/2"	0.5	60
10:00	30	1/8"		

Test Hole 2

Time	Interval (minutes)	Water Drop (fraction)	Water Drop (decimal)	Perc Rate
8:35	30	1/2"	0.5	
9:05	30	3/8"		
9:35	30	1/4"	0.25	
10:05	30	1/8"	0.125	

Test Hole 3

Time	Interval (minutes)	Water Drop (fraction)	Water Drop (decimal)	Perc Rate
8:40	30	5/8"		
9:10	30		0.625	
9:40	30	5/8"		
10:10	30			120

Test Hole 4

Time	Interval (minutes)	Water Drop (fraction)	Water Drop (decimal)	Perc Rate
8:45	30			80
9:15	30		0.25	
9:45	30	3/8"		
10:15	30			120

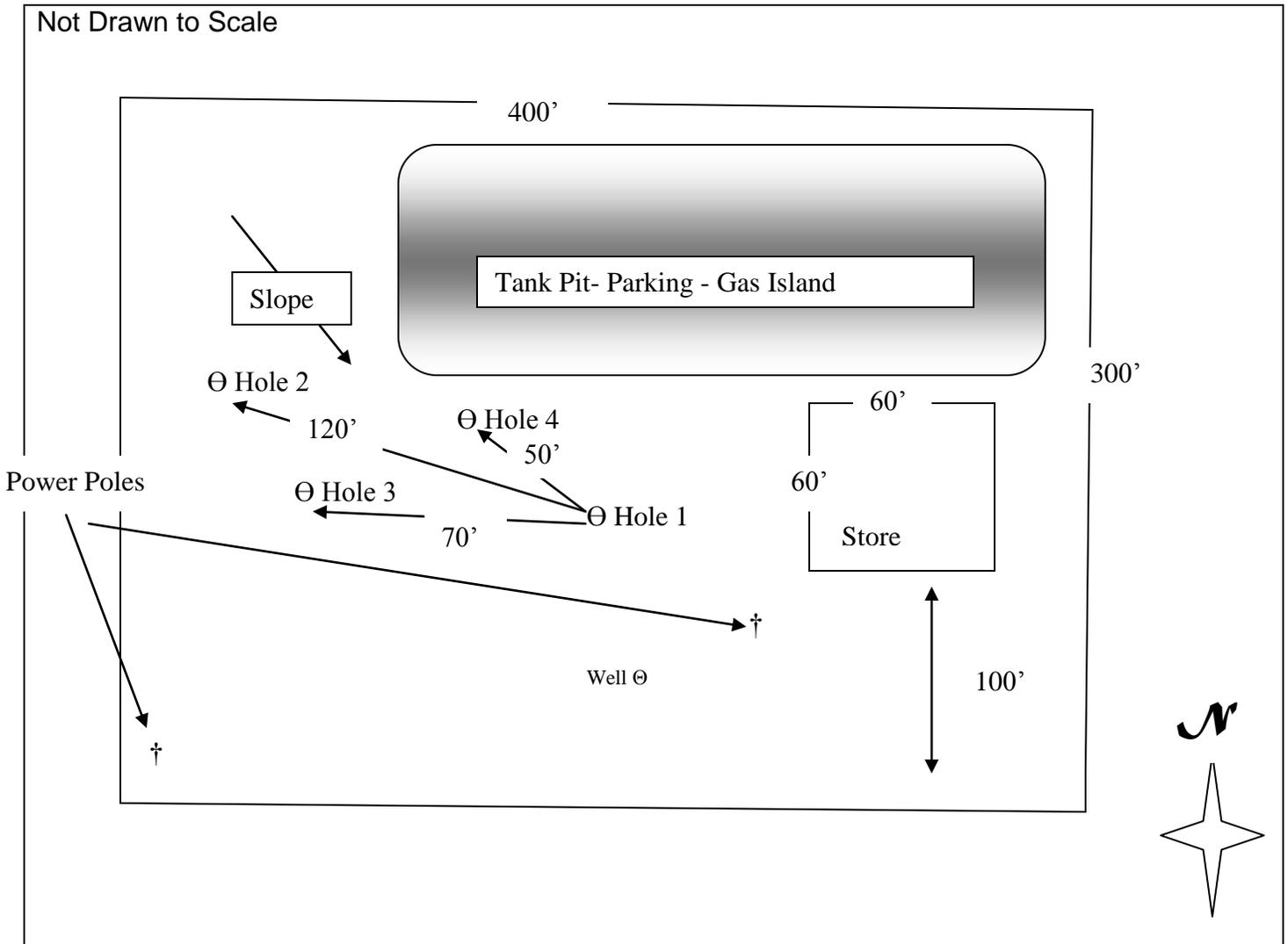
Show all calculations and diagrams of test hole locations on the back of this form.

# CALCULATIONS - #B - PERCOLATION TEST RESULTS EXERCISE #117

## DIAGRAM OF TEST HOLE LOCATIONS

1. Locate building or proposed building site.
2. Locate all test holes with distances from the building.
3. Locate any existing well and neighbor's well.
4. Locate property lines and all setback requirements.
5. Locate geological and topographical features.
6. Give slope and show direction of slope.

Not Drawn to Scale



SIGNATURE OF TESTER \_\_\_\_\_

PERC TEST FOR ROD SIMON

1. The perc test holes were dug twenty (30) inches deep and six (6) inches in diameter. The sides were scratched and the loose material removed. Four (4) inches of two (2) inch gravel was placed in the bottom and the hole was filled with water, to a depth of eight (8) inches and held for 4 hours.

Was the preparation phase of the test properly done, and if it wasn't what was done wrong? YES NO

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2. Fill in the blanks for the four test holes to complete the test results provided. This may mean determining the water drop as a fraction or a decimal or calculating the perc rate, etc.
3. The test should continue until three (3) consecutive percolation rates vary by a range of no more than ten (10) percent. Complete the table below and determine the percent variation for the readings.

Test Hole 1	Test Hole 2	Test Hole 3	Test Hole 4
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Was the test conducted until there was no more than ten (10) percent variation? YES NO

4. Which rate must be used to design the system? \_\_\_\_\_ min./inch

5. What is missing from the site diagram?

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6. Is there anything suspicious with this perc test?

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