

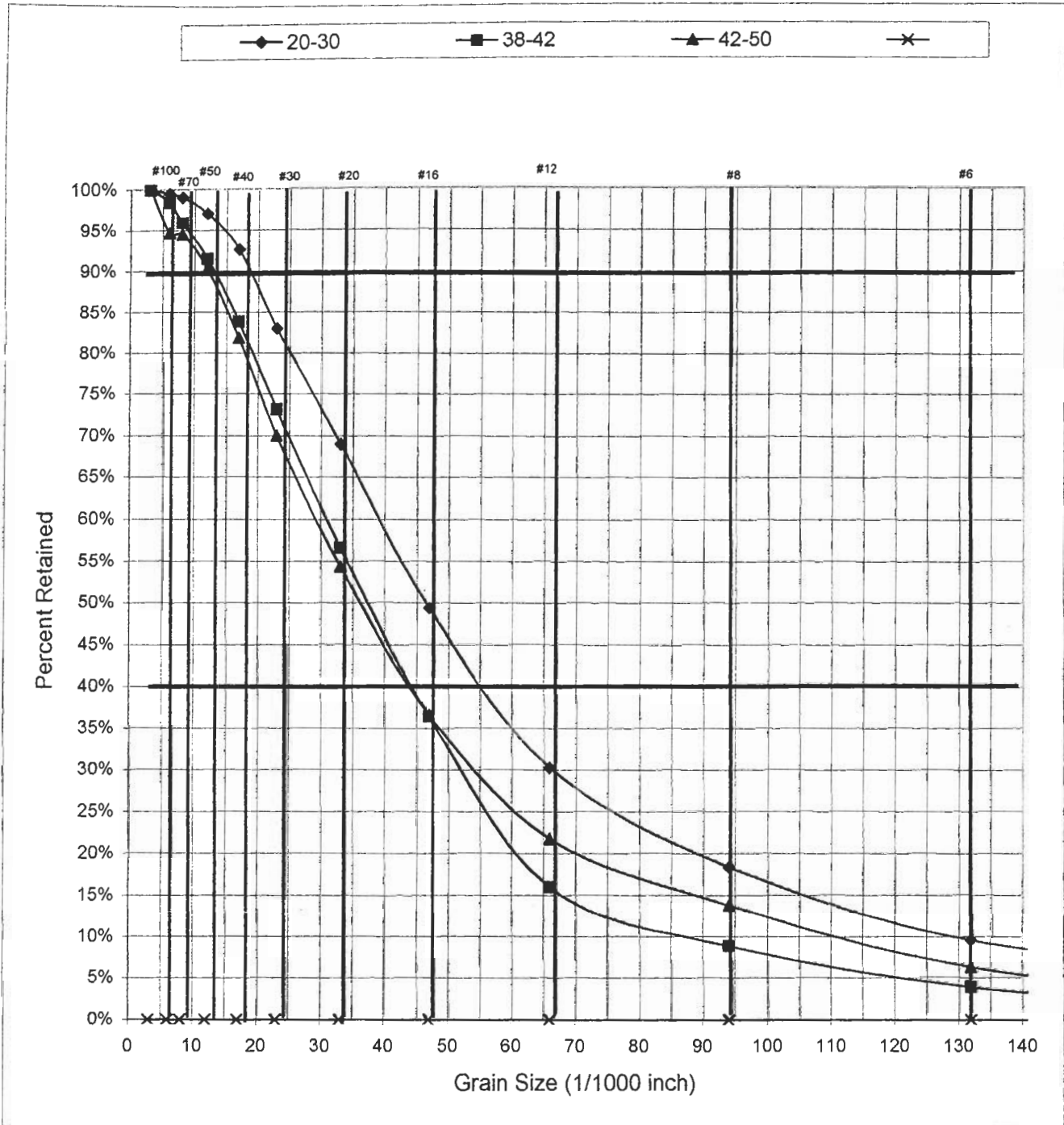
**Test Well Drilled for Manning**  
**Manning, Iowa**  
**27<sup>th</sup> May 2003**  
**Airport Test #4**  
**N 41° 54' 02.8" W 95° 04' 20.8"**

*city manning needs \**

- \* Type of Well: Drilled
- \* Type of casing: 4" Sch40 PVC plastic
- \* Total Depth of well: 48'
- \* Well Screen: 4" X 10' PVC plastic
- \* Static Water Level: 7'
- \* Estimated Pumping rate: 80-120 gallons per minute
- \* Exterior Space around casing filled with gravel and bentonite: Bentonite from 0-30'.
- \* Well is not in a well pit.
- \* Well complies with State Standards.

### WELL LOG

0	--	08	Topsoil
08	--	12	Gray Clay
12	--	18	Blue Clay
18	--	22	Gray/Black Sand .012 - .100
22	--	25	Gray Sand .016 - .200
25	--	35	Gray Brown Sand .030 - .250
35	--	48	Gray Sand .016 - .200
48	--	60	Gray Clay



Sieve Analysis ID # 111103-3

Well:

Contractor: Jensen Well

Desired Yield - 150 GPM, SWL - 7'

Project: City of Manning

Engineer: Buell Winter Mousel

Proposed Screen Diameter: 16" Pipe Size

Recommended Slot Size: 70 Slot From 40' - 50'

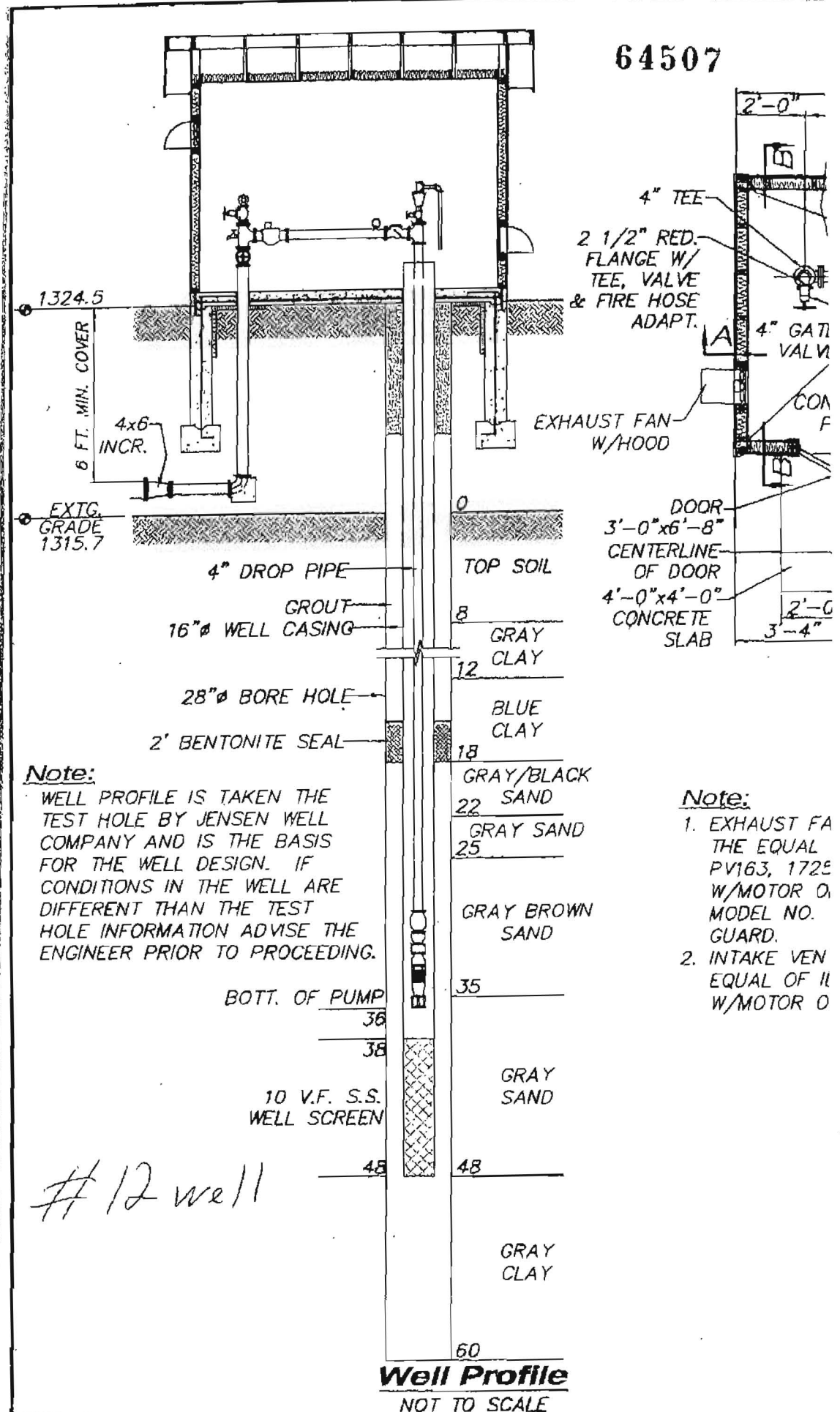
Recommended Gravel Pack: A Well Pack Central Sand & Gravel

Prepared By: Al Smith

651-638-3160

Send samples to 1950 Old Hwy 8, New Brighton, MN 55112.

64507



**Note:**

WELL PROFILE IS TAKEN THE TEST HOLE BY JENSEN WELL COMPANY AND IS THE BASIS FOR THE WELL DESIGN. IF CONDITIONS IN THE WELL ARE DIFFERENT THAN THE TEST HOLE INFORMATION ADVISE THE ENGINEER PRIOR TO PROCEEDING.

**Note:**

1. EXHAUST FA THE EQUAL PV163, 172E W/MOTOR O, MODEL NO. GUARD.
2. INTAKE VEN EQUAL OF II W/MOTOR O

#12 well

**Well Profile**

NOT TO SCALE