



The Swell / Settlement test (ASTM D-4546 Method C) was run by subjecting the soil specimen to a small load and the sample volume is held constant while the specimen attempts to swell, increasing in pressure. The test begins with the specimen at approximate natural moisture and the specimen is inundated within 2 minutes of the beginning of the test. The apparatus automatically increases the load until the specimen is exerting a constant "Swell Pressure". When a constant "Swell Pressure" is obtained. The apparatus increases the test load slightly and then is unloaded measuring swell of the sample. The Sample is the loaded to predetermined maximum test load measuring consolidation of the sample. After the maximum test load, the soil sample is unloaded to measure rebound and any swelling potential after consolidation.

LOAD SUMMARY

- 0.2** psf SEATING LOAD
- 1670.8** psf SAMPLE SATURATED SOIL COLLAPSE DURING SWELL PHASE
- 12.2%** % SAMPLE REBOUND @ UNLOAD
- 203.5** psf MAXIMUM TEST LOAD

Comments:

	INITIAL	MAXIMUM LOAD	FINAL LOAD
SOIL DENSITY (pcf)	124.9	144.8	139.9
SOIL MOISTURE (%)	24.5%	9.5%	12.5%
CONSOLIDATION (%)	0.0%	61.2%	48.9%
VOID RATIO (e)	0.65	0.25	0.33
SATURATION (%)	100.0%	100.0%	100.0%

SOIL COUNTER:	948597316
SOIL TYPE:	CH
BOREHOLE NUMBER:	BR1340
SAMPLE Gs:	2.65
DIAMETER (mm):	58
AREA (mm^2):	2642.08



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SOIL CONSOLIDATION ASTM D-4546

Project: PRJ2079 **Test Date:** 24-Jan-00
Location: Northern Saskatchewan, Canada
Borehole: BR1340 **Depth:** 2.20 m
Site: **Technician:** Hank Tarmack
Soil Counter: 948597316 **Sample ID:** SM1332