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# CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES QUALITY ASSURANCE SURVEILLANCE REPORT

PROJECT NO.: 20-3704-035      REPORT NO.: 90-014      PAGE 1 OF 1

SURVEILLANCE SCOPE:  
Witness of Piezometers (Pressure Transducers) Calibration

REFERENCE DOCUMENTS: N/A

STARTING DATE: 10/9/90      ENDING DATE: 10/9/90

QA REPRESENTATIVE: R. D. Brient *LRB*

PERSONS CONDUCTING TEST / EXAM / ACTIVITY:  
Bob King - Gulf Coast Calibration  
Billy Vanzant - 06

SATISFACTORY FINDINGS:  
.....  
Calibration curves for Piezometers (Geokon Model 4500H-500, Serial Numbers 12783, 12784, 12785, and 12786) were developed by applying pressures with the dead weight tester (Ashcroft 5-10,000 lbs, S/N GCC118, weights S/N 1Na-35688) of 100, 200, 300, 400, and 500 lbs while recording the readout (Geokon GK401, S/N 600). Calibrations were performed by SwRI (Nuclear) qualified vendor Gulf Coast Calibration.  
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UNSATISFACTORY FINDINGS: None  
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NONCONFORMANCE REPORT NO.: N/A

ATTACHMENTS: Calibration Certificates from Gulf Coast Calibration

RECOMMENDATIONS / ACTIONS  
N/A  
.....  
.....

APPROVED: *[Signature]*  
CENTER DIRECTOR OF QUALITY ASSURANCE  
DATE: 10/29/90

DISTRIBUTION:  
ORIGINAL - CENTER QA DIRECTOR  
ORIGINATOR  
PRINCIPAL ENGINEER *B. Vanzant*  
ELEMENT MANAGER *A. Chowdhury*  
T. Trbovich - CC 30

26/36

# GULF COAST CALIBRATION

7999 Hansen, Suite 321  
Houston, TX 77061  
(713) 944-3139

## Certificate Of Calibration

Customer SOUTHWEST RESEARCH INSTITUTE Date 10-9-1990  
6220 CULEBRA SAN ANTONIO, TX Expires N/A  
 Customer P.O. \_\_\_\_\_  
 Type and Size of Gauge Transducer  
 Serial No. 12786

### Test Reading Charts

Applied Pressure	Reading ( $f^2 \times 10^{-3}$ )
0	9845
100	9068
200	8290
300	7506
400	6718
500	5922
400	6714
300	7499
200	8280
100	9059
0	9824
100	9058
200	8281
300	7499
400	6713
500	5919
400	6711
300	7498
200	8279
100	9058
0	9822

I CERTIFY, AT THE TIME OF CALIBRATION,  
THE READINGS INDICATED WERE THOSE FOUND  
AT THE APPLIED PRESSURE POINTS AS RECORDED.

Our Test Equipment used for calibration is traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY and maintained in accordance with conditions as noted under MIL. STD. 45662A.

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY No. 40093

Test Equipment GCC118  
 Date of Cal. 3-1-1990  
 Expires 3-1-1991

Technician Robert D. King

271210

# GULF COAST CALIBRATION

7999 Hansen, Suite 321  
Houston, TX 77061  
(713) 944-3139

## Certificate Of Calibration

Customer SOUTHWEST RESEARCH INSTITUTE Date 10-9-1990

6220 CULEBRA SAN ANTONIO, TX Expires N/A

Customer P.O. \_\_\_\_\_

Type and Size of Gauge Transducer

Serial No. 12785

### Test Reading Charts

Applied Pressure	Reading ( $f^2 \times 10^{-3}$ )
0	9468
100	8669
200	7835
300	7013
400	6189
500	5336
400	6174
300	7000
200	7820
100	8635
0	9437
100	8637
200	7823
300	7002
400	6177
500	5337
400	6175
300	6999
200	7820
100	8636
0	9439

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Date of cal. 3-1-1990  
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Technician Robert D. King

28/36

# GULF COAST CALIBRATION

7999 Hansen, Suite 321

Houston, TX 77061

(713) 944-3139

## Certificate Of Calibration

Customer SOUTHWEST RESEARCH INSTITUTE Date 10-9-1990

6220 CULEBRA SAN ANTONIO, TX Expires N/A

Customer P.O. \_\_\_\_\_

Type and Size of Gauge Transducer

Serial No. 12784

### Test Reading Charts

Applied Pressure	Reading ( $f^2 \times 10^{-3}$ )
0	8471
100	7662
200	6857
300	6044
400	5223
500	4402
400	5219
300	6040
200	6852
100	7659
0	8452
100	7660
200	6853
300	6041
400	5220
500	4395
400	5213
300	6034
200	6848
100	7656
0	8449

I CERTIFY, AT THE TIME OF CALIBRATION THE READINGS INDICATED WERE THOSE FOUND AT THE APPLIED PRESSURE POINTS AS RECORDED.

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NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY No. 40093

Test Equipment GCC118  
Date of Cal. 3-1-1990  
Expires 3-1-1991

Technician Robert D. King

29/2/90

# GULF COAST CALIBRATION

7999 Hansen, Suite 321  
Houston, TX 77061  
(713) 944-3139

## Certificate Of Calibration

Customer SOUTHWEST RESEARCH INSTITUTE Date 10/9/1990

6220 CULEBRA SAN ANTONIO, TX Expires N/A

Customer P.O. \_\_\_\_\_

Type and Size of Gauge Transducer

Serial No. 12783

### Test Reading Charts

Applied Pressure	Reading <sub>3</sub> ( $f \times 10^3$ )
0	9492
100	8710
200	7917
300	7119
400	6315
500	5509
100	8706
200	7913
300	7115
400	6313
500	5503
400	6313
300	7114
200	7911
100	8705
0	9489

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