LOADTEST, Inc.
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"Providing confidence in foundations through load testing around the world"

Feb. 21st - 22nd, 2003:
Dr. Osterberg will speak to the
ASCE Geotechnical Meeting
Omaha, Nebraska.

Oct 22nd-24th, 2003:
Deep Foundations Institute
28th Annual Conference on Deep Foundations
Eden Roc Resort & Spa
Miami Beach, FL

Feb. 4th – 7th, 2004
Drilled Foundation & Drilled Geo Support Equipment
Exposition, Design & construction Conference
Orlando, FL

NEW DOWNLOADS AVAILABLE: WWW.LOADTEST.COM

- Jack Hayes and Tony Simmonds: **"Interpreting Strain Gage Measurements from Load Tests in Bored Piles"**
- Jack Hayes article featured in May 2002 issue of *Foundation Drilling* magazine: **"ADSC - An Association of 'Drillers' or 'Manufacturers?'"**

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LOADTEST

TELLTALES

Contents

MISSISSIPPI LEADING

"Go, Mississippi, get up and go,
Go, Mississippi, let the world know,
That our Mississippi is leading the show,
M-I-S-S-I-S-S-I-P-P-I"

This verse from the State Song for Mississippi provides an apt description of what has happened there with respect to O-Cell® testing over the past 10 years. Mississippi is leading the show.

Under the leadership of engineers **Richard Sheffield**, **Charles Davis**, **Michael Wright** and **James Williams III**; the Mississippi Department of Transportation (MDOT) has performed over 60 O-Cell tests, which represents approximately 9% of all O-Cell tests worldwide. Loadtest's first Mississippi project on record was the Pearl River Bridge in Carthage - test date November, 1993. The most recent testing program was completed in December, 2002 near Greenville MS, appropriately, for a new bridge across the Mississippi River on Highway 82. To date, Loadtest has performed O-Cell tests in 25 of the 82 counties in Mississippi.

We all know that Mississippi is named for the Mississippi River that forms its western boundary and empties into the Gulf of Mexico. Did you know that the name, roughly translated from Native American folklore, means "Father of Waters." The translation comes from the Chippewa words "mici zibi" meaning "great river" or "gathering in of all the waters" and the Algonquin word "Messipi".

We don't know if there are Chippewa words for "quality engineering", but something with MDOT in it would be appropriate. We at Loadtest, Inc. are constantly impressed with the ability of MDOT engineers to predict the shear and end-bearing loads that we measure at the Mississippi projects. We understand that by utilizing the O-Cell, in conjunction with a technique shaft, at the outset of many projects, MDOT has been able to **value engineer** some tremendous savings over the years. The following pages outline a few examples of the tests that we have carried out along with various drilled shaft "manufacturers" for the State of Mississippi. Well done; we enjoy helping the MDOT to "…Let the world know,…"

Image courtesy of HNTB Corp.

LOADTEST

US-278 TOMBIGBEE RIVER

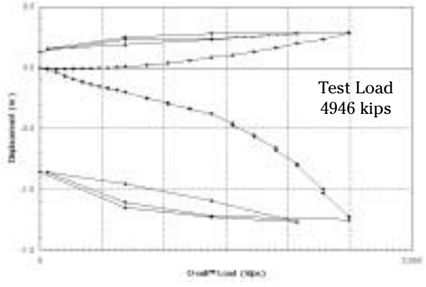
PROJECT OVERVIEW

This structure is a bridge replacement project of the existing US-278 bridges between US-45 and Amory, MS. The new structure consists of four (4) segments. Three segments are prestressed beam construction and one segment comprises of steel plate girders. The total length of the bridge structure is 1040 ft. (354m).

TEST SHAFT DATA

• Shaft Length	74.5 ft. (22.7 m)
• Shaft Diameter	60 in (1525mm)
• O-Cell (s)	1 x 34 in. single level
• Max. Load (applied)	4946 kips (21.99 MN)
• Displacement	0.199 in. (5 mm) up
• Displacement	1.248 in. (31 mm) down
• Test Date	08/12/1994
• Stratigraphy	soft clayey silty sand/medium sand and fine gravel/EUTAW formation sand.

LOAD MOVEMENT CURVE



KEY PERSONNEL

Client/Contractor: F&W Construction,
Mr. Hal McKewen, Mr. Butch Frederick
Loadtest: Mr. Shing Pang, Mr. Dan Pitocchi
MDOT: Mr. Richard Sheffield, Mr. Charles Davis

US-82 OKTIBBEHA CO.

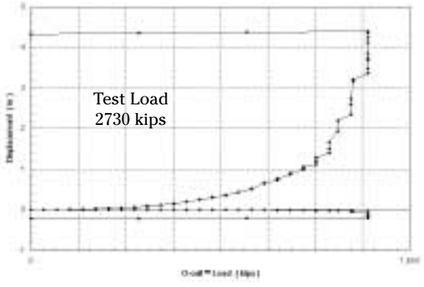
PROJECT OVERVIEW

MDOT specified Osterberg testing on a new Overpass structure for US 82 near Starkville, MS.

TEST SHAFT DATA

• Shaft Length	43 ft. (14.64m)
• Shaft Diameter	48 in. (1220mm)
• O-Cell (s)	1 x 26 in. single level
• Max. Load (applied)	2730 kips (10.95 MN)
• Displacement	3.67 in. (93.22mm) up
• Displacement	0.11 in. (2.79mm) down
• Test Date	06/23/1998
• Stratigraphy	sandy clay/Ripley Formation/ Demopolis Formation

LOAD MOVEMENT CURVE



KEY PERSONNEL

Client/Contractor: McKinney Drilling
Mr. Mike Kalder
Loadtest: Mr. Mike Ahrens, Mr. Bill Ryan
MDOT: Mr. Charles Davis

HWY #90-PASCAGOULA

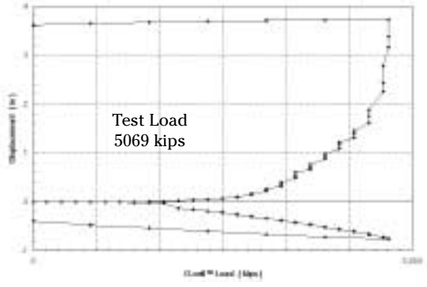
PROJECT OVERVIEW

A widening of two existing bridges on US- 90 over the West Pascagoula River called for the use of 7 ft. caissons to a depth of 120 ft. The widening of the existing structures allowed for two shoulder lanes to be added in each direction. LOADTEST Inc. also performed tests on two 24" prestressed driven piles on this project.

TEST SHAFT DATA

• Shaft Length	120.0 ft. (36.6 m)
• Shaft Diameter	90 in (2290 mm)
• O-Cell (s)	3 x 21 in. single level
• Max. Load (applied)	5069 kips (22.6MN)
• Displacement	3.730 in. (94.8 mm) up
• Displacement	0.760 in. (19.40 mm) down
• Test Date	03/07/2000
• Stratigraphy	sandy silty clay / sand and gravel

LOAD MOVEMENT CURVE



KEY PERSONNEL

Client/Contractor: Morris-Shea Bridge Co.
Mr. Richard Shea,
Loadtest: Mr. M.D. Ahrens; Mr. I. L. Guzman;
Mr. D. J. Jakstis
MDOT: Mr. Mike Wright, Mr. James Williams III

HWY #82-GREENVILLE MS

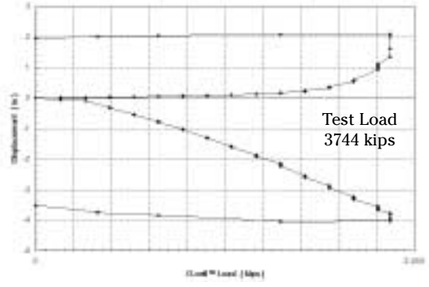
PROJECT OVERVIEW

This structure will be the longest cable stay bridge in the United States, with a span of 1378 ft. (420m). Two 425 ft. (130m) towers will soar above the Mississippi River anchoring the three main spans of 591/1378/591 ft. The new four–lane bridge will replace a two-lane structure built in 1940. The scheduled completion date is mid 2006.

TEST SHAFT DATA

• Shaft Length	139.3 ft. (42.45 m)
• Shaft Diameter	48 in. (1220 mm)
• O-Cell (s)	1 x 21 in. single level
• Max. Load (applied)	3744 kips (16.64 MN)
• Displacement	2.1 in. (53.33 mm) up
• Displacement	4.02 in. (102.2 mm) down
• Test Date	10/29/2002
• Stratigraphy	firm to very stiff sandy silt and clay underlain by dense to very dense silty fine sand.

LOAD MOVEMENT CURVE



KEY PERSONNEL

Client: Malouf Construction; Mr. Aubrey King, Mr. James Veasey, Mr. Harmon Downs
Drilling Contractor: A.H. Beck Foundation Co.
Designer: HNTB – Mr. Don Hammond
Loadtest: Mr. Mike Ahrens, Mr. Bill Ryan, Mr. Dave Jakstis, Mr. Denny Kort, Mr. John Hayes
MDOT: Mr. James Williams III, Mr. Mike Wright, Mr. Steele Davis, Mr. Eric Arnold, Mr. Kevin MaGee