

**FILED**

**JUN 04 2007**

**MICHIGAN PUBLIC SERVICE  
COMMISSION**

May 29, 2007

First Class Mail

Ms. Mary Jo Kunkle  
Michigan Public Service Commission  
PO Box 30221  
Lansing MI 48909

Re: Completion Report – Case No. U-14815  
Fruit Growers Gas Gathering, LLC  
4" Milton Bradley Pipeline

Dear Ms. Kunkle:

Enclosed for filing in accordance with Rule 502(3) of the Michigan Gas Safety Standards please find pressure test records and an as-built route map of the above-captioned pipeline. The line was tested in two segments; both tests were successful with no leaks or failures.

Please note that the pipeline was constructed of 4½" OD line pipe, 0.188" wall, API 5L Grade X-42, ERW, rather than of 6-inch pipe as indicated in the line's 1929 PA 9 Application and Order.

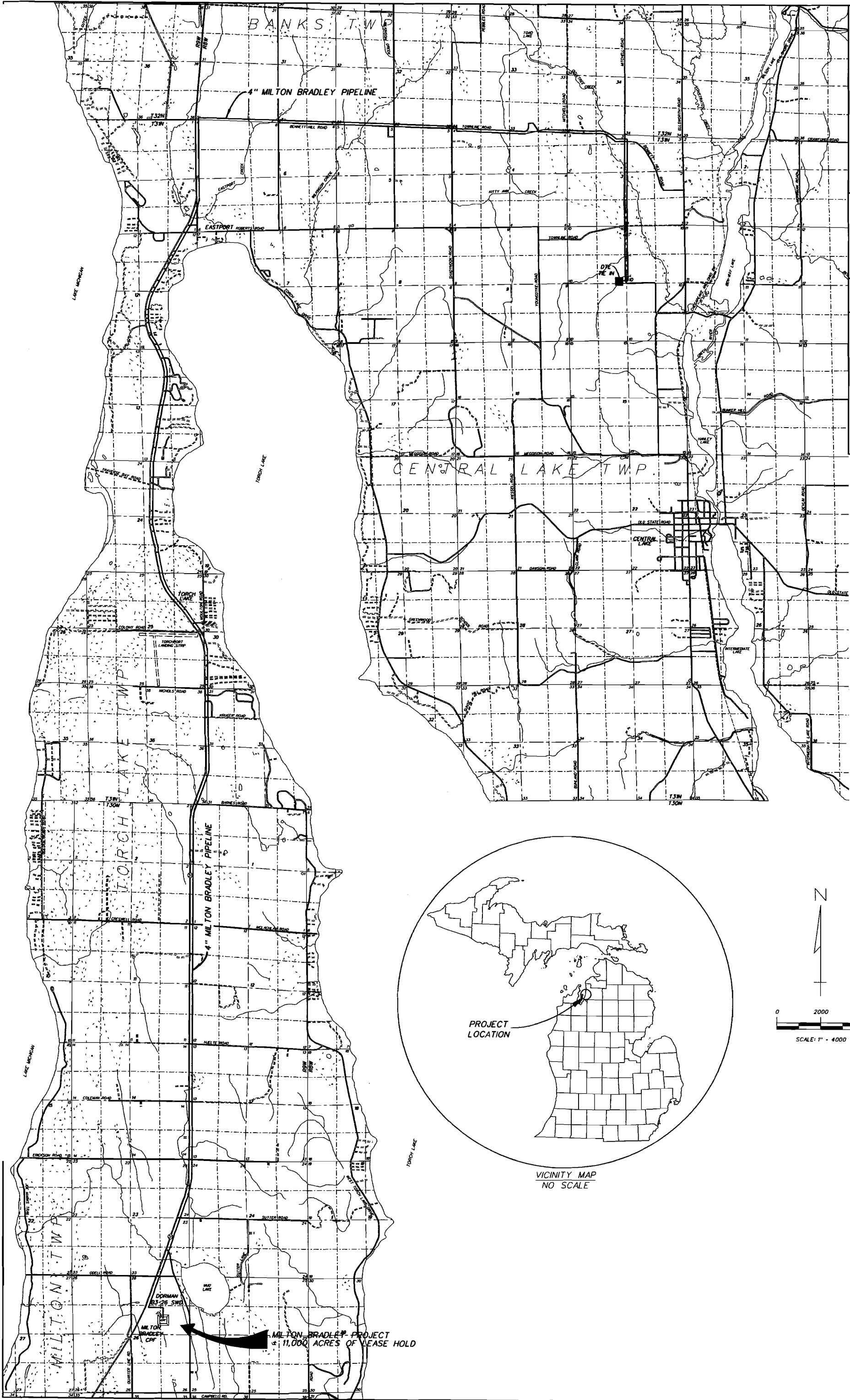
Please contact me if you have any questions or comments about this matter.

Yours very truly,

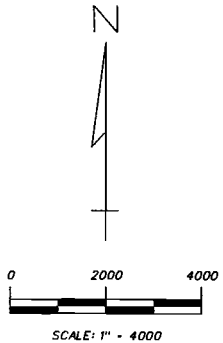
Daniel M. Cooper, P.E.

Enclosures

cc: Tom Robb, Fruit Growers Gas Gathering, LLC



VICINITY MAP  
NO SCALE



FRUIT GROWERS GAS GATHERING, LLC  
4" MILTON BRADLEY PIPELINE  
ANTRIM CO., MI  
PROJECT NUMBER  
22510.00220

ENGINEER	SURVEY	DRAWN	CHECKED	APP'D	SCALE
/	/	/	/	/	1"=4000'
LKD	05/17/2007	/	/	/	

**Wilcox Professional Services**  
AN ISO 9001:2000 CERTIFIED COMPANY

UPDATED 05/17/2007 LKD

SHEET 1  
OF 1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62

# PRESSURE TEST RECORD

## TESTING EQUIPMENT

Pressure Recorder: Make: American 5000 Serial Number: 162206 Calibration Date: 5-30-06  
 Deadweight Gauge: Make: Chandler Serial Number: 13321 Calibration Date: 4-13-07  
 Temperature Recorder: Make: American 0-150 Serial Number: 162412 Calibration Date: 5-30-06  
 Test Manifold Pressure Rating / MAOP: \_\_\_\_\_ PSIG  
 Pressure Pump: Make: Sprague ; Serial Number: 14444 ; Capacity: 0-8800 ; Gallons/Stroke: \_\_\_\_\_

## ACTUAL TEST PRESSURES and DEADWEIGHT READINGS

For Tests < 2 hours, enter readings @ 15 minutes. For Tests > 2 hours but < 8 Hours, enter readings @ 30 minutes. Tests > 8 hours, enter readings hourly.

Test Start Date: 5-7-07 Test End Date: 5-7-07  
 Weather Conditions: Sun<sup>AM</sup> - Cldy on off - Turn Sunny<sup>PM</sup> Air Temperature: 50 °F

TIME <u>(A.M.)</u> P.M.	PRESSURE PSIG	TEMP. °F AMB. PIPE	REMARKS	TIME <u>(A.M.)</u> P.M.	PRESSURE PSIG	TEMP. °F AMB. PIPE	REMARKS
7:30	0-1500		Pump up for Test	11:30	2177	69 72	
7:50	1500		Take up to press	12:00	2176	70 74	
8:15	2182	50° 61°	Start Test	12:30	2175.5	70 78	
8:30	2182	50° 61°		1:00	2175.5	70 80	
8:45	2181	51° 61°		1:30	2175	71 88	
9:00	2180	51° 61°		2:00	2175	75 88	
9:30	2179	55° 64°		2:30	2175	78 96	
10:00	2178	55° 64°		3:00	2175	81 99	
10:30	2178	62° 66°		3:30	2175	82 91	
11:00	2177	66° 70°		4:00	2175	81 91	
INDICATORS: * REPRESSURE • BLEED				4:20	2175	82 92	Test She off

Leaks or Failures during test: None

Disposition of Leaks or Failures: \_\_\_\_\_

COMMENTS: Mess up AT 11:30 wrote 2177 instead of 2177 (BG)

✓ ALL ABOVE GROUND FAB NO LEAKS

4" Milton Bradley Pipeline - Pig Launcher to Old Dixie Hwy (along 05-37)  
Fruit Growers Gas Gathering, LLC

## CERTIFICATION

Test Witness (Company Representative): Bruce Decker - Gordon Lamp DATE: 5-7-07

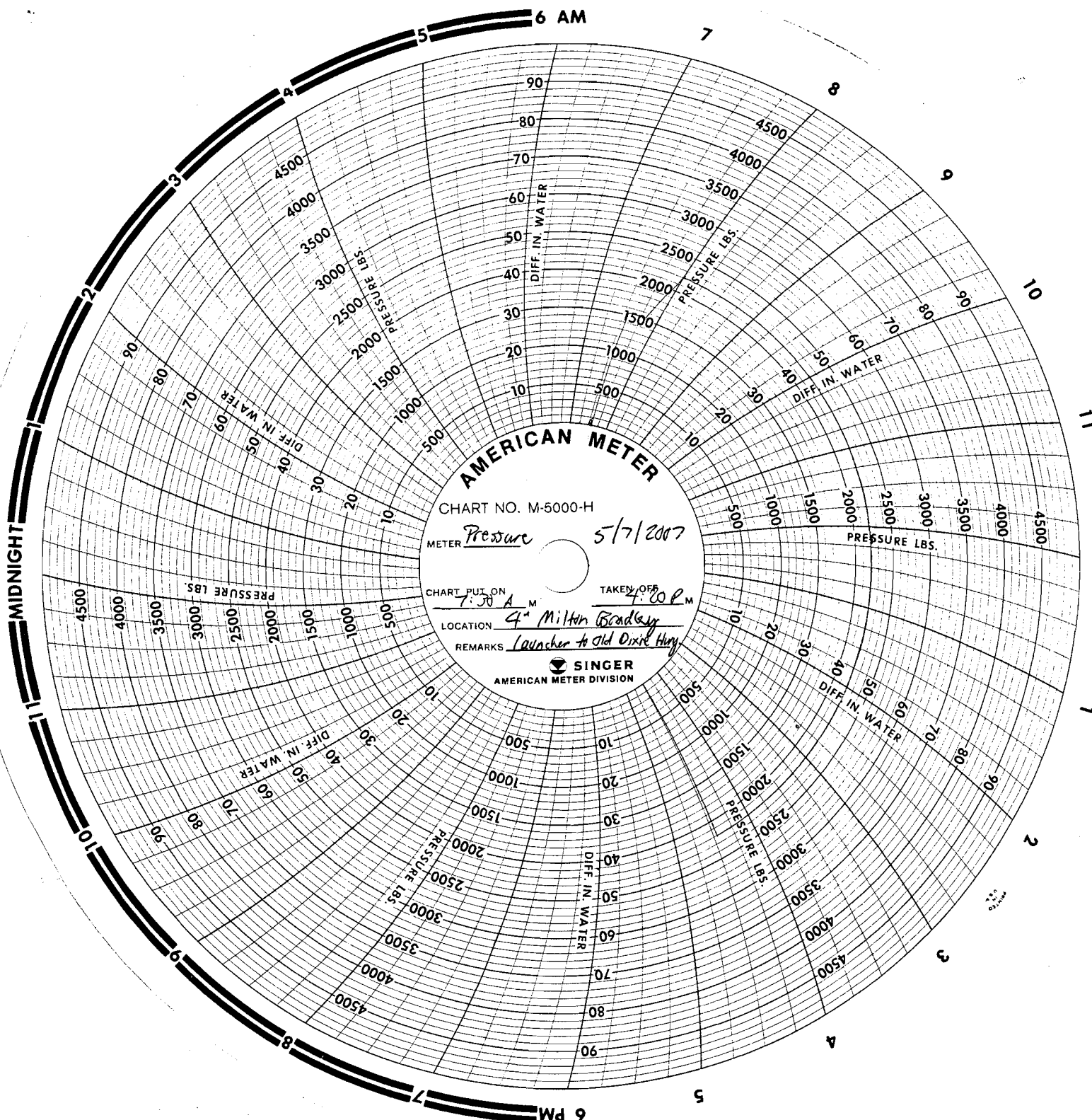
Contractor Witness: \_\_\_\_\_ DATE: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ DATE: \_\_\_\_\_

Approved By: \_\_\_\_\_ DATE: \_\_\_\_\_

Engineering Review: Dave Truxner HT Eng DATE: 5-7-07

Dain M. Co HT Engineering, Inc. 5-29-07



# AMERICAN METER

CHART NO. M-5000-H

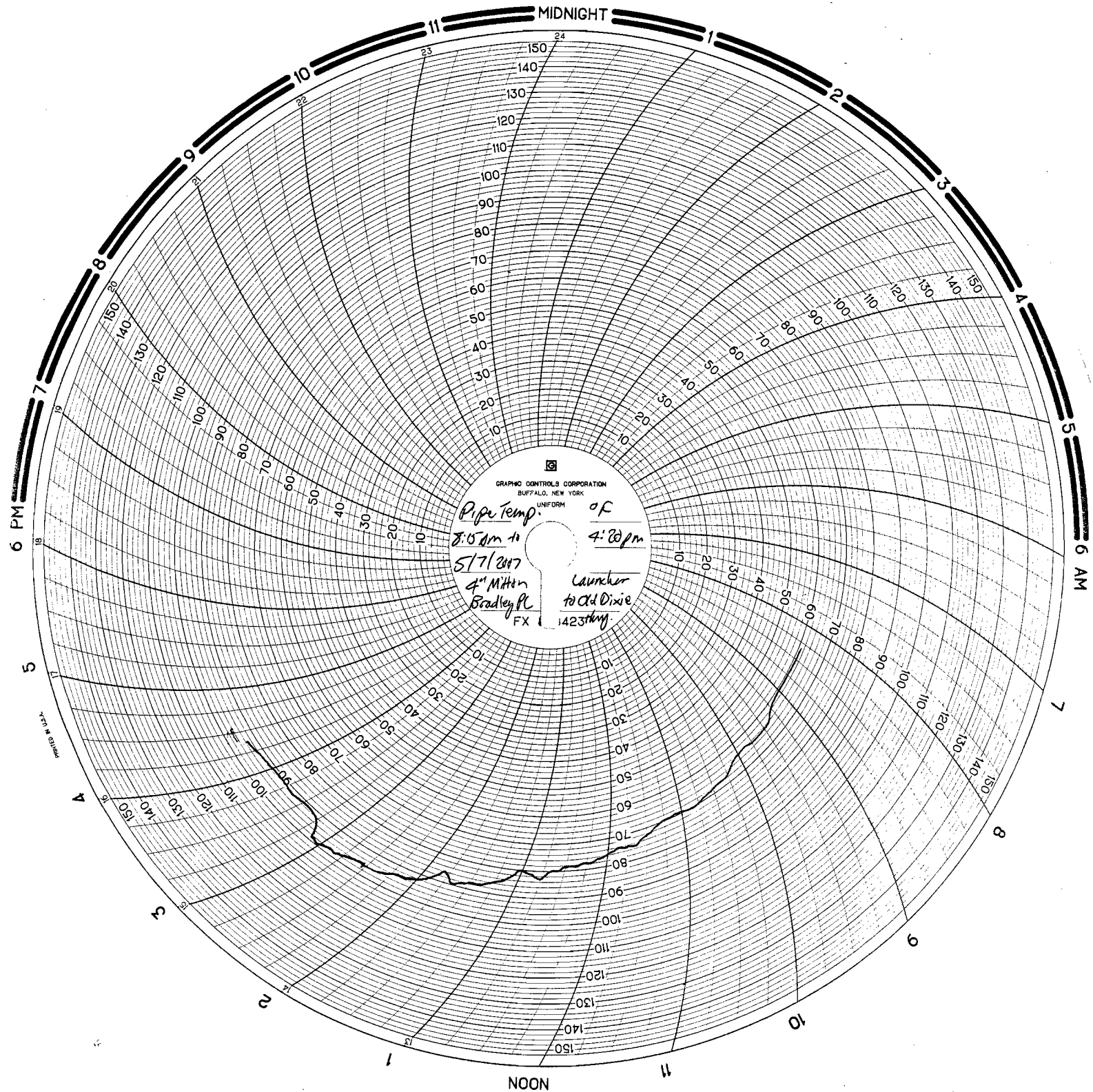
METER Pressure 5/7/2007

CHART PUT ON 7:30 A M TAKEN OFF 4:00 P M

LOCATION 4<sup>th</sup> Milton Bradley

REMARKS Launcher to old Dixie Hwy

**SINGER**  
AMERICAN METER DIVISION





2007 - 11224 - 37050

**CALIBRATION CERTIFICATE AND DATA SHEET**

**R.L. MORRIS & SONS**  
 3398 VALLEY ROAD  
 KALKASKA, MI 49646  
 DAVE BELL 1-231-258-8656

**HYDRAULIC DEADWEIGHT TESTER 13321**  
 Description: **CHANDLER** Serial No. **022560** Asset No. **E3334-1**  
 Manufacturer: **5-1** Control No. \_\_\_\_\_  
 Model Number \_\_\_\_\_ Department \_\_\_\_\_ Cust Location \_\_\_\_\_

R1189-3  
 P.O. RMA Number Quote  
 Environmental 72.2 °F 18.2 %RH Specs. MFR.  
 Conditions 1000 mB Gals Procedure ICP-002

731 4/13/2007 4/13/2009  
 Cycle Cal Date Cal Due Date  
 Intervals are assigned by contractual agreement unless specifically explained

Received		Returned		Special Services		Equipment Accessories	
<input checked="" type="checkbox"/> In Tolerance	<input type="checkbox"/> Initial Cal	<input checked="" type="checkbox"/> In Tolerance	<input type="checkbox"/> Adjusted	<input type="checkbox"/> Repair	<input type="checkbox"/> Warranty Service	<input type="checkbox"/> Manual	<input type="checkbox"/> Shipping Case
<input type="checkbox"/> Out Of Tolerance	<input type="checkbox"/> Dirty	<input type="checkbox"/> Limited Use	<input type="checkbox"/> Repaired	<input type="checkbox"/> On-Site	<input type="checkbox"/> Estimate Required	<input type="checkbox"/> Adapters	<input type="checkbox"/> Handles
<input type="checkbox"/> Inoperative	<input type="checkbox"/> NCR	<input type="checkbox"/> Return As Is	<input type="checkbox"/> Cleaned	<input checked="" type="checkbox"/> Calibration	<input type="checkbox"/> ISO 17025	<input type="checkbox"/> Cables	<input type="checkbox"/> Head
<input type="checkbox"/> Damaged	<input type="checkbox"/> Off Zero	<input type="checkbox"/> Eval Only	<input type="checkbox"/> Rejected	<input type="checkbox"/> Conformance		<input type="checkbox"/> Power Cord	<input type="checkbox"/> React. Post
<input type="checkbox"/> Parts Missing		<input type="checkbox"/> NCR		<input type="checkbox"/> Outside Service		<input type="checkbox"/> Equip Case	<input type="checkbox"/> Ldg. Bar

Fault/Symptom  
 CALIBRATION ( INCLUDES CERTIFICATE )

Technical Evaluation  
 Meets manufacturers specification of +/-0.1% of reading as received.

Work Performed  
 Verified to manufacturers specifications. No adjustments were performed. As Left data is same as As Found data.

Qty	Description	Qty	Description

Asset	Asset Model	Due Date	Traceability to NIST Through Report No.
28	DH 5303 HYD. DWT	9/30/2008	DHI48831

Parameters Tested/ Specification	Nominal	- Limit	+ Limit	As Found	As Left
SEE ATTACHED SHEET FOR DATA.					

This calibration is traceable to N.I.S.T. or fundamental or natural physical constants, or by accepted ratiometric techniques. Mfg. Specs along with measurement uncertainty was used to determine In/Out of tolerance.

This calibration is traceable to N.I.S.T. or fundamental or natural physical constants, or by accepted ratiometric techniques. Mfg. Specs without regard with measurement uncertainty was used to determine In/Out of tolerance.

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Troy Jensen

Wayne Fetman

Certified By

Inspected By

# Dead Weight Tester Calibration Report.

Date of Calibration :- 13 Apr 2007  
 Recommended Recalibration Date :- 13 Apr 2009  
 Model :- CHANDLER 5-1  
 Serial No. :- 12345  
 Piston Cylinder Unit No. :- 13321  
 Weight Set No. :- 13321

Start Pressure :- 9000 lb/in<sup>2</sup>  
 End Pressure :- 250 lb/in<sup>2</sup>  
 Falling in 1 total steps of 0 lb/in<sup>2</sup>  
 Specified Accuracy :- 0.1 %RDG  
 Local Gravity :- 9.8028 m/s<sup>2</sup>  
 Local Gravity UC :- 50 ppm  
 Atmospheric Pressure :- 1000 mbar  
 Ambient Temperature :- 23.00 °C  
 Specified Gravity :- 9.80665 m/s<sup>2</sup>  
 Specified Temperature :- 20.00 °C  
 Temperature Coefficient of PCU :- 0.00028 / °C  
 Magnetism UC :- 5 ppm  
 Surface Tension UC :- 1 ppm  
 Verticality UC :- 1.4 ppm  
 Additional UC :- 0 ppm  
 Uncertainty is Quadrature  
 Head height :- 240.03 mm  
 Head height Uncertainty :- 1 mm  
 Fluid used :- DOS

Applied	Instrument	Error	Temp Ref	Temp Test	Mass	Mass UC	Trim Mass	Trim Mass UC	Total Uncertainty	Test weights Used	Ref weights used
lb/in <sup>2</sup>	lb/in <sup>2</sup>	%	°C	°C	kg	ppm	g	g	ppm		
9000.0	9000.000	0.0000	22.47	23	44.8999871379	0.2702	64	1.0000	189.6674	1-16, 24-27	4kg, 5kg-1, 5kg-2, 5kg-3, 5kg-4, 5kg-5,
6999.5	7000.000	0.0071	22.4	23.1	34.8999927559	0.3017	68	1.0000	192.4290	1-16, 24	4kg, 5kg-1, 5kg-2, 5kg-3, 5kg-4, 5kg-5,
5000.6	5000.000	-0.0120	22.39	23.1	24.899989737	0.3586	81	1.0000	192.4291	1-5, 12-16	4kg, 5kg-1, 5kg-2, 5kg-3, 2kg-1, 2kg-2,
3000.8	3000.000	-0.0267	22.41	23.1	14.899988887	0.4919	90	1.0000	192.4308	1-5, 12-16	4kg, 5kg-1, 2kg-1, 2kg-2, 500g, 200g-1,
1000.3	1000.000	-0.0300	22.59	23.2	4.8999896531.1469	95.5	0.5000	195.2256	1, 12-16	2kg-1, 1kg, 500g, 200g-1, 200g-2, carrier	
249.97	250.000	0.0120	22.63	23.2	1.1999929743.6000	47.2	0.2000	195.4031	15-24	200g-1, carrier	

The Errors shown are within specification. The Largest Error is -0.0300 %RDG

## Reference equipment details...

Reference PCU. 2826 Cert No. DHI No. 48831  
 Weight Set No. 2169 Cert No. M05-145-DH

- The value of applied pressure shown are when the piston unit is operating under the specified conditions of temperature,  $t_s$  and gravity  $g_s$  (as shown above).  
 For other values of temperature,  $t$  and gravity,  $g$  the pressure,  $P$  can be calculated:  $P = P_a \cdot (g/g_s) \cdot [1 - (t - t_s) \times l]$   
 where  $l$  = temperature coefficient of the piston-cylinder unit.
- The reported expanded uncertainty is based on a standard uncertainty multiplied by the coverage factor  $K=2$ , providing a level of confidence of approximately 95%.

Signature \_\_\_\_\_

T. JENSEN



DATE 5/30/06  
 DESCRIPTION American 5000#  
 s/n: 162206

# Certificate of Calibration

TEST PRESSURE	RECORDER LEFT	TEST DIFFERENTIAL	RECORDER LEFT	TEST TEMP	RECORDER LEFT
0	0				
500	500				
1,000	1,000				
1,500	1,500				
2,000	2,000				
2,500	2,500				
3,000	3,000				
3,500	3,500				
4,000	4,000				
4,500	4,500				
5,000	5,000				

CALIBRATED BY: David Bavousett

WITNESSED BY: Octavio Falcon

DATE: 5/30/06

NBF REF: 0-10,000 # Ametek s/n 25775 NIST Number TN-251820-93.  
822/255136-954110899/1-95, TN-255596-95  
0-300" yellow back s/n F94-123 NIST Number TUM X001142

Post-It® Fax Note 7671

Date	# of pages ▶ 2
To <u>TONY BARBER</u>	From <u>C WITT</u>
Co./Dept.	Co. <u>TREND SERVICES</u>
Phone #	Phone # <u>258-9951</u>
Fax # <u>258-4446</u>	Fax #



# PRESSURE TEST RECORD

## TESTING EQUIPMENT

Pressure Recorder: Make: American 5000 Serial Number: 162206 Calibration Date: 5-30-06  
 Deadweight Gauge: Make: Chandler Serial Number: 13321 Calibration Date: 4-13-07  
 Temperature Recorder: Make: American 0-150 Serial Number: 162412 Calibration Date: 5-30-06  
 Test Manifold Pressure Rating / MAOP: \_\_\_\_\_ PSIG  
 Pressure Pump: Make: Sprague ; Serial Number: 14444 ; Capacity: 0-8000 ; Gallons/Stroke: \_\_\_\_\_

## ACTUAL TEST PRESSURES and DEADWEIGHT READINGS

For Tests < 2 hours, enter readings @ 15 minutes. For Tests > 2 hours but < 8 hours, enter readings @ 30 minutes. Tests > 8 hours, enter readings hourly.

Test Start Date: 5-9-07 Test End Date: 5-9-07

Weather Conditions AM. cloudy Rain Air Temperature: \_\_\_\_\_ °F

TIME <u>(A.M.)</u> P.M.	PRESSURE PSIG	TEMP. °F AMB. PIPE	REMARKS	TIME A.M. <u>(P.M.)</u>	PRESSURE PSIG	TEMP. °F AMB. PIPE	REMARKS
7:30	0- 1000		Press up / leaks	12:30	2218	60 69	
8:05-8:10	2221	62 68	Press up start test	1:00	2218	60 69	
8:30	2221	62 68	Start Test	1:30	2217	60 71	
9:00	2221	58 68		2:00	2217	60 72	
9:30	2221	58 68		2:30	2217	62 74	Sunny
10:00	2219	57 68	Start to Rain	3:00	2217	64 72	
10:30	2219	57 68		3:30	2217	66 74	
11:00	2218	56 68		4:00	2217	72 76	
11:30	2218	58 68		4:30	2217	72 76	
12:00	2217	58 68					

INDICATORS:    \* REPRESSURE    • BLEED

Leaks or Failures during test: None

Disposition of Leaks or Failures: \_\_\_\_\_

COMMENTS: 4" Milton Bradley Pipeline - US-31 to DTE Tie-In  
Fruit Growers Gas Gathering, LLC

## CERTIFICATION

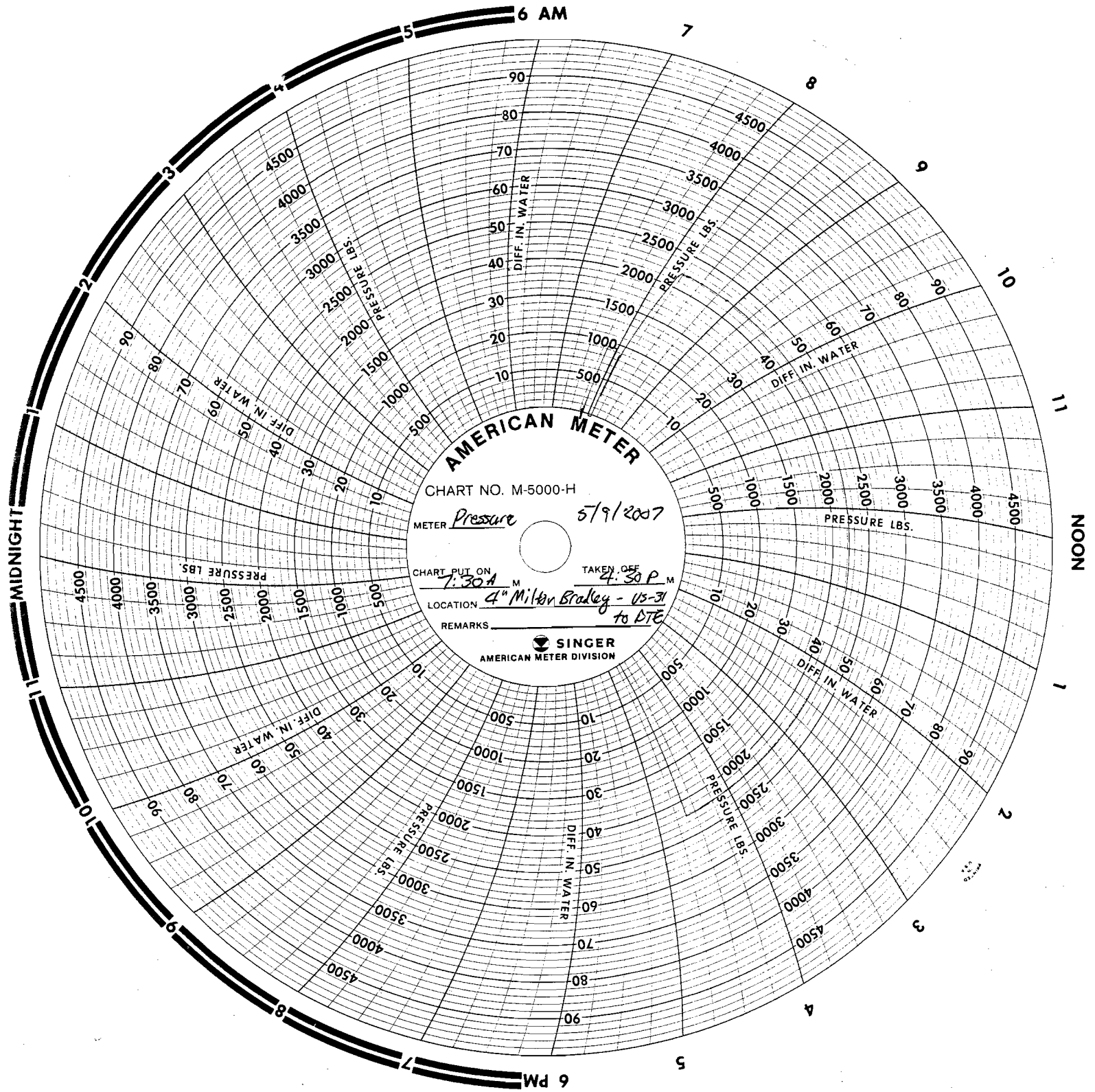
Test Witness (Company Representative): Brian Kelly DATE: 5-9-07

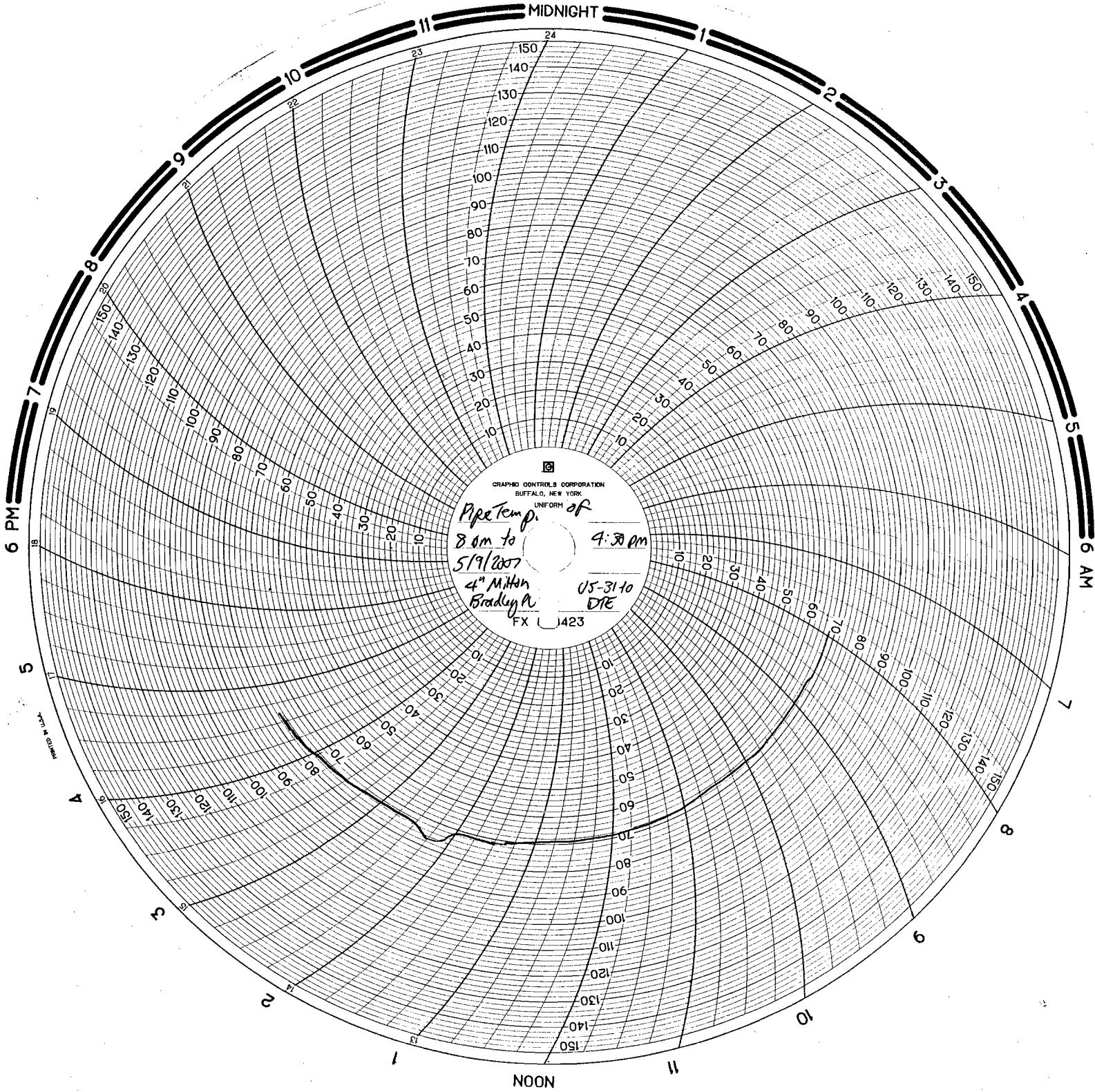
Contractor Witness: \_\_\_\_\_ DATE: \_\_\_\_\_

Reviewed By: \_\_\_\_\_ DATE: \_\_\_\_\_

Approved By: Jede Thompson HT Eng DATE: 5-9-07

Engineering Review: Dan M.A. HT Engineering, Inc. DATE: 5-29-07





MIDNIGHT

6 PM

6 AM

NOON

1/2" W. GARDNER

2007 - 11224 - 37050

**CALIBRATION CERTIFICATE AND DATA SHEET**

<b>R.L. MORRIS &amp; SONS</b> 3398 VALLEY ROAD KALKASKA, MI 49646 DAVE BELL R1189-3 P.O. RMA Number Quote Environmental 72.2 °F 18.2 %RH Specs. MFR. Conditions 1000 mB Gals Procedure ICP-002	<b>HYDRAULIC DEADWEIGHT TESTER 13321</b> Description <b>CHANDLER</b> Serial No. 022560 E3334-1 Manufacturer Control No. Asset No. 5-1 Model Number Department Cust Location <div style="border: 1px solid black; padding: 2px; margin-top: 5px;">           731 4/13/2007 4/13/2009            Cycle Cal Date Cal Due Date  <small>Intervals are assigned by contractual agreement unless specifically explained</small> </div>
---	---

Received	Returned	Special Services	Equipment Accessories
<input checked="" type="checkbox"/> In Tolerance <input type="checkbox"/> Out Of Tolerance <input type="checkbox"/> Inoperative <input type="checkbox"/> Damaged <input type="checkbox"/> Parts Missing	<input checked="" type="checkbox"/> In Tolerance <input type="checkbox"/> Limited Use <input type="checkbox"/> Return As Is <input type="checkbox"/> Eval Only <input type="checkbox"/> NCR	<input type="checkbox"/> Adjusted <input type="checkbox"/> Repaired <input type="checkbox"/> Cleaned <input type="checkbox"/> Rejected	<input type="checkbox"/> Repair <input type="checkbox"/> On-Site <input checked="" type="checkbox"/> Calibration <input type="checkbox"/> Conformance <input type="checkbox"/> Outside Service
<input type="checkbox"/> Initial Cal <input type="checkbox"/> Dirty <input type="checkbox"/> NCR <input type="checkbox"/> Off Zero	<input type="checkbox"/> Warranty Service <input type="checkbox"/> Estimate Required <input type="checkbox"/> ISO 17025	<input type="checkbox"/> Manual <input type="checkbox"/> Adapters <input type="checkbox"/> Cables <input type="checkbox"/> Power Cord <input type="checkbox"/> Equip Case	<input type="checkbox"/> Shipping Case <input type="checkbox"/> Handles <input type="checkbox"/> Head <input type="checkbox"/> React. Post <input type="checkbox"/> Ldg. Bar

**Fault/Symptom**  
 CALIBRATION (INCLUDES CERTIFICATE)

**Technical Evaluation**  
 Meets manufacturers specification of +/-0.1% of reading as received.

**Work Performed**  
 Verified to manufacturers specifications. No adjustments were performed. As Left data is same as As Found data.

Qty	Description

Asset	Asset Model	Due Date	Traceability to NIST Through Report No.
28	DH 5303 HYD. DWT	9/30/2008	DHI48831

Parameters Tested/ Specification	Nominal	- Limit	+ Limit	As Found	As Left
SEE ATTACHED SHEET FOR DATA.					

○ This calibration was performed with equipment controlled in compliance with ISO/IEC 17025 pursuant to A2LA Accreditation Certificate Number 1753.01 and is traceable to N.I.S.T. or fundamental or natural physical constants, or by accepted ratiometric techniques. Mfg. Specs along with measurement uncertainty was used to determine In/Out of tolerance.  
 ○ This calibration is traceable to N.I.S.T. or fundamental or natural physical constants, or by accepted ratiometric techniques. Mfg. Specs without regard with measurement uncertainty was used to determine In/Out of tolerance.

This Form Is Not To Be Reproduced Without  
 Written Authorization From JLW Instruments /  
 Metrology Concepts.

Troy Jensen  
 Certified By

Wayne Fetman  
 Inspected By

# Dead Weight Tester Calibration Report.

Date of Calibration :- 13 Apr 2007  
 Recommended Recalibration Date :- 13 Apr 2009  
 Model :- CHANDLER 5-1  
 Serial No. :- 12345  
 Piston Cylinder Unit No. :- 13321  
 Weight Set No. :- 13321

Start Pressure :- 9000 lb/in<sup>2</sup>  
 End Pressure :- 250 lb/in<sup>2</sup>  
 Falling in 1 total steps of 0 lb/in<sup>2</sup>  
 Specified Accuracy :- 0.1 %RDG  
 Local Gravity :- 9.8028 m/s<sup>2</sup>  
 Local Gravity UC :- 50 ppm  
 Atmospheric Pressure :- 1000 mbar  
 Ambient Temperature :- 23.00 °C  
 Specified Gravity :- 9.80665 m/s<sup>2</sup>  
 Specified Temperature :- 20.00 °C  
 Temperature Coefficient of PCU :- 0.00028 / °C  
 Magnetism UC :- 5 ppm  
 Surface Tension UC :- 1 ppm  
 Verticality UC :- 1.4 ppm  
 Additional UC :- 0 ppm  
 Uncertainty is Quadrature  
 Head height :- 240.03 mm  
 Head height Uncertainty :- 1 mm  
 Fluid used :- DOS

Applied	Instrument	Error	Temp Ref	Temp Test	Mass	Mass UC	Trim Mass	Trim Mass UC	Total Uncertainty	Test weights Used	Ref weights used
lb/in <sup>2</sup>	lb/in <sup>2</sup>	%	°C	°C	kg	ppm	g	g	ppm		
9000.0	9000.000	0.0000	22.47	23	44.8999871379	0.2702	64	1.0000	189.6674	1-16,24-27	4kg,5kg-1,5kg-2,5kg-3,5kg-4,5kg-5,
6999.5	7000.000	0.0071	22.4	23.1	34.8999927559	0.3017	68	1.0000	192.4290	1-16,24	4kg,5kg-1,5kg-2,5kg-3,5kg-4,5kg-5,
5000.6	5000.000	-0.0120	22.39	23.1	24.899989737	0.3586	81	1.0000	192.4291	1-5,12-16	4kg,5kg-1,5kg-2,5kg-3,2kg-1,2kg-2,
3000.8	3000.000	-0.0267	22.41	23.1	14.899988887	0.4919	90	1.0000	192.4308	1-5,12-16	4kg,5kg-1,2kg-1,2kg-2,500g,200g-1,
1000.3	1000.000	-0.0300	22.59	23.2	4.8999896531.1469		95.5	0.5000	195.2256	1,12-16	2kg-1,1kg,500g,200g-1,200g-2,carri
249.97	250.000	0.0120	22.63	23.2	1.1999929743.6000		47.2	0.2000	195.4031	15-24	200g-1,carrier

The Errors shown are within specification. The Largest Error is -0.0300 %RDG

Reference equipment details...

Reference PCU. 2826 Cert No. DHI No. 48831  
 Weight Set No. 2169 Cert No. M05-145-DH

- The value of applied pressure shown are when the piston unit is operating under the specified conditions of temperature, ts and gravity gs (as shown above).  
 For other values of temperature, t and gravity, g the pressure, P can be calculated:  $P = Pa. (g/g_s) \cdot [1 - (t - t_s) \cdot l]$   
 where l= temperature coefficient of the piston-cylinder unit.
- The reported expanded uncertainty is based on a standard uncertainty multiplied by the coverage factor K=2, providing a level of confidence of approximately 95%.

Signature \_\_\_\_\_

T. JENSEN

5-30-06; 2:08PM; PRECISION FLOW

TREND SERVICES

;4928813597

4 3 9



DATE 5/30/06  
 DESCRIPTION American 5000#  
 s/n: 162206

# Certificate of Calibration

TEST PRESSURE	RECORDER LEFT	TEST DIFFERENTIAL	RECORDER LEFT	TEST TEMP	RECORDER LEFT
0	0				
500	500				
1,000	1,000				
1,500	1,500				
2,000	2,000				
2,500	2,500				
3,000	3,000				
3,500	3,500				
4,000	4,000				
4,500	4,500				
5,000	5,000				

CALIBRATED BY: David Bavousett

WITNESSED BY: Octavio Falcon

DATE: 5/30/06

NSF REF: 0-10,000 # Ametek s/n 25775 NIST Number TN-251820-93  
822/255136-954110899/1-95, TN-255595-95  
0-300" yellow back s/n F94-123 NIST Number TUM X001142

Post-It® Fax Note	7671	Date	# of pages <u>2</u>
To <u>TONY BARBER</u>	From <u>C. WITT</u>	Co./Dept.	<u>TREND SERVICES</u>
Phone #	Phone # <u>258-9951</u>	Fax #	<u>258-4446</u>



DATE 5/30/06  
 DESCRIPTION American Q-150°F  
s/n: 162412

# Certificate of Calibration

TEST PRESSURE	RECORDER LEFT	TEST DIFFERENTIAL	RECORDER LEFT	TEST TEMP	RECORDER LEFT
				32	32
				45	45
				60	60
				75	75
				90	90
				105	105
				120	120
				135	135
				150	150

CALIBRATED BY: David Bavousett

WITNESSED BY: Octavio Falcon

DATE: 5/30/06

NBF REF: 0-10,000 # Ametek s/n 26775 NIST Number TN-251820-93,  
822/255136-954110899/1-95, TN-255595-95  
0-300° yellow back s/n F04-123 NIST Number TUM X001142