

In Reply Refer To: MS 5232

MAR 11 1998

Mr. Dennis Sustala
Vastar Resources, Inc.
15375 Memorial Drive
Houston, Texas 77079

Dear Mr. Sustala:

In accordance with 30 CFR 250.158(b), your letter dated January 9, 1998, transmitted a pipeline construction report for the following right-of-way (ROW) pipeline located in the West Cameron Area:

<u>Pipeline Segment No.</u>	<u>Size (inches)</u>	<u>Length (feet)</u>	<u>Service</u>	<u>From</u>	<u>To</u>
11562 (ROW OCS-G 18824)	6 5/8	17,168	Bulk Gas	Well No. 1 Block 364 Lease OCS-G 15083	Platform A Block 368 Lease OCS-G 5315

The data provided in the report, including the following test information, establishes the assigned maximum allowable operating pressure (MAOP) for the pipeline:

<u>Pipeline Segment No.</u>	<u>Test Pressure (psig)</u>	<u>Duration (hours)</u>	<u>MAOP (psig)</u>	<u>MAOP Determination</u>
11562	3,382	8	2,220	Flanges/Valves

The high- and low-pressure sensors shall be set, respectively, no higher than 15 percent above and below the normal operating range. However, the high pilot shall not be set higher than the MAOP of the pipeline.

The total length of the "as-built" pipeline right-of-way is 3.52 miles.

Sincerely,

(Org. Sgd.) J. R. Hennessey

Donald C. Howard
Regional Supervisor
Field Operations

bcc: 1502-01 Segment No. 11562, ROW OCS-G 18824 w/orig report (MS 5232)
1502-01 ROW OCS-G 18824, w/cy of report (Microfilm) (MS 5033)
MS 5421
MS 5232 Carto

DIzon:jvl:01/16/98:Vastar.562

In Reply Refer To: MS 5232

Mr. Dennis Sustala
Vastar Resources, Inc.
15375 Memorial Drive
Houston, Texas 77079

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Sincerely,

Donald C. Howard
Regional Supervisor
Field Operations

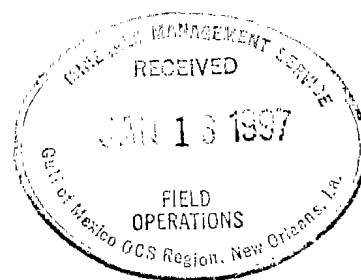
bcc: 1502-01 Segment No. 11562, ROW OCS-G 18824 w/orig report (MS 5232)
1502-01 ROW OCS-G 18824, w/cy of report (Microfilm) (MS 5033)
MS 5421
MS 5232 Carto

DIzon:jvl:01/16/98:Vastar.562



Vastar Resources, Inc.

15375 Memorial Drive
Houston Texas 77079
281 584-6000



MICRO

January 9, 1998

Mr. Don Howard
Regional Supervisor
Office of Field Operations
Minerals Management Service
GULF OF MEXICO OCS REGION
1201 Elmwood Park Blvd.
New Orleans, LA 70123-2394

Attn: Mr. Frank Patton
MS 5232

Re: As-Built Pipeline Location Plat and Hydrostatic Test Reports and Charts
Vastar Resources, Inc., 6.625 - inch O.D. Pipeline
West Cameron Block 364, Well No. 1, OCS-G 15083
To West Cameron Block 368, Platform "A" - OCS-G - 05315
Gulf of Mexico, Federal Waters

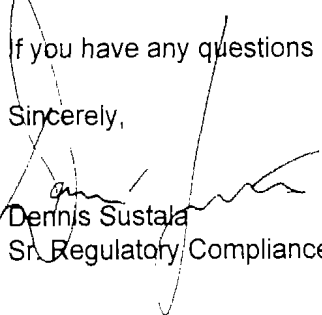
Dear Mr. Howard:

Pursuant to the authority granted in Section 5(e) of the Outer Continental Shelf Lands Act (67 Stat. 462) (43 U.S.C. 1334(e) as amended (92 Stat. 629), and in compliance with the regulations contained in Title 30, Part 250, Subpart J - Pipelines and Pipeline Rights-or-Way, Vastar Resources, Inc., received approval in a letter dated September 18, 1997, for a right-of way two hundred feet (200') in width for the construction, maintenance, and operation of a 6.625 - inch O.D. gas pipeline in the West Cameron area of the Gulf of Mexico.

The new flowline was tested on October 19, 1997. Three copies of a hydrostatic test report and pressure chart, deadweight record, temperature charts, calibration certifications and as-built location plat are attached. We have also attached a copy of a diskette containing digital pipeline location data.

If you have any questions concerning this pipeline installation, please call me at (281) 584-6615.

Sincerely,


Dennis Sustala
Sr. Regulatory Compliance Coordinator

MMS- Original Plus 2 Copies with all Attachments
WC 364, #1 - Pipeline File With All Attachments
Sandy Peters/ WC 364, #1, Gen Lse - With All Attachments
Paul Backhaus / HBP - With All Attachments
Ted Younger / BBS - With All Attachments

WC370

$$Y \approx 90000$$
$$Y = 100000$$

G15083

00+00.00	VASTAR
BLK 364-A	T.O.R.
X=	1,354,729.37'
Y=	100,440.98'
Lat.	28° 55' 38.078"N
Lon.	93° 21' 00.972"W

BLK 364-"A" T.O.R.
X= 1,354,729.37'
Y= 100,440.98'

WC364
G15083

INSET
NO SCALE

WC369

G04767

WC365

G15084

WC366

BEST AVAILABLE COPY

MMS SEG. NO. 11562

AS-BUILT
6" BULK GAS PIPELINE

171+67.85 VASTAR
BLK 368-"A" T.O.R.
X= 1,370,136.82'
Y= 93,387.82'
Lat. 28° 54' 30.918"
Lon. 93° 18' 06.269"

WC368
G05315

1

WC367

G13841

A circular professional seal for a land surveyor in the State of Louisiana. The outer ring of the seal contains the text "STATE OF LOUISIANA" at the top and "LAND SURVEYOR" at the bottom, separated by small stars. In the center of the seal, the name "LIONEL J. CORMIER" is printed in a bold, sans-serif font. Below the name, the registration number "REG. No. 4401" is printed. Underneath the number, the words "REGISTERED" and "PROFESSIONAL" are printed in a smaller font, stacked vertically.

CERTIFIED CORRECT AS TO HORIZONTAL
POSITION OF AS-BUILT PIPELINE.

Leont. Corwin

REG. PROFESSIONAL LAND SURVEYOR NO. 4401
STATE OF LOUISIANA

NOTES:

- 1) LENGTH OF RISERS NOT INCLUDED IN TOTAL FOOTAGE AND STATIONING OF AS-BUILT PIPELINE.
- 2) PREPARED FOR GLOBAL INDUSTRIES COASTAL DIVISION.
- 3) T.O.R. REPRESENTS TOP OF RISER.
B.O.R. REPRESENTS BOTTOM OF RISER.
- 4) DETAIL INSET TAKEN FROM CONSTRUCTION DRAWINGS.
- 5) * DENOTES ANODE POSITION AS SURVEYED
(MAY NOT REFLECT ALL ANODES).



Vastar Resources, Inc.

JOHN E. CHANCE
A ASSOCIATES, INC.



FUGRO
an international company
 10000 Westpark Drive, Suite 100
 Houston, Texas 77036-2899
 Tel: 713/865-7000
 Telex: 730000
 Fax: 713/865-7001
 E-mail: info@fugro.com

CIVIL ENGINEERS & LAND SURVEYORS - LAFAYETTE, LOUISIANA
A MEMBER OF THE FUGRO GROUP OF COMPANIES

GEODETIC DATUM: NAD 1927
ELLIPSOID: CLARKE 1866
PROJECTION: LAMBERT
ZONE: LOUISIANA SOUTH
GRID UNITS: FEET

AS-BUILT
6" BULK GAS PIPELINE
BLK 364—"A " TOR TO BLK 368—"A " TOR
WEST CAMERON AREA
GULF OF MEXICO

JOB NO.: 97-2685	DATE: NOVEMBER 14, 1997	SHEET NO. 1 OF 1
FILE: H:\MARINE\972685	PRINT: NOVEMBER 13, 1997	

TIE	X COORDINATE	Y COORDINATE	TIE	X COORDINATE	Y COORDINATE	TIE	X COORDINATE	Y COORDINATE
B-X 364 A - F.O.B.	1,354,729'	100,441'	19 •	1,362,164'	97,706'	37 •	1,367,459'	95,388'
B-X 364 A - F.O.B.	1,354,734'	100,439'	20 •	1,362,359'	97,636'	38 •	1,367,869'	95,036'
3 •	1,354,850'	100,397'	21 •	1,362,658'	97,524'	39 •	1,368,254'	94,699'
4 •	1,355,177'	100,282'	22 •	1,362,980'	97,406'	40 •	1,368,362'	94,609'
5 •	1,355,651'	100,093'	23 •	1,363,187'	97,318'	41 •	1,368,631'	94,392'
6 •	1,356,181'	99,908'	24 •	1,363,567'	97,200'	42 •	1,368,831'	94,241'
7 •	1,356,674'	99,722'	25 •	1,363,711'	97,158'	43 •	1,369,112'	94,046'
8 •	1,357,114'	99,563'	26 •	1,364,223'	97,023'	44 •	1,369,548'	93,743'
9 •	1,357,680'	99,363'	27 •	1,364,740'	96,883'	45 •	1,369,828'	93,556'
10 •	1,358,076'	99,208'	28 •	1,365,236'	96,760'	46 •	1,370,015'	93,431'
11 •	1,358,652'	98,983'	29 •	1,365,763'	96,603'	SPOOL PIECE FLANGE B-X 368 A - F.O.B.	1,370,070'	93,394'
12 •	1,359,186'	98,789'	30 •	1,365,921'	96,555'		1,370,131'	93,376'
13 •	1,359,685'	98,611'	31 •	1,366,174'	96,464'	B-X 368 A - F.O.B.	1,370,137'	93,388'
14 •	1,360,196'	98,415'	32 •	1,366,256'	96,408'			
15 •	1,360,792'	98,211'	33 •	1,366,460'	96,225'			
16 •	1,361,179'	98,070'	34 •	1,366,650'	96,074'			
17 •	1,361,619'	97,902'	35 •	1,367,074'	95,730'			
SPONT LIFTING	1,361,887'	97,802'	36 •	1,367,299'	95,526'			
								TOTAL LENGTH=17,168'=3.25 MILES



CERTIFIED TEST REPORT NO. 101997-1
GLOBAL INDUSTRIES OFFSHORE, INC.
COASTAL DIVISION
VASTAR RESOURCES, INC.
6" SCHEDULE 80 PIPELINE
WEST CAMERON 364
TO
WEST CAMERON 368



October 19, 1997

Global Industries Offshore, Inc.
Coastal Division
P.O. Box 31936
Lafayette, Louisiana 70593-1936

Attn: Mr. Danny L. Aymond

Re: Test Report 101997-1
6" Schedule 80 Pipeline
Job No. 1.9044

Gentlemen:

Please find an attached copy of Certified Report 101997-1 which contains data recorded on the 17,156.25' of 6" Schedule 80 Pipeline belonging to Vastar Resources, Inc. The hydro-test was conducted in accordance with specifications set forth by Vastar Resources, Inc. as well as industry standards, proving the structural integrity of said pipeline.

If any further information is required, please feel free to contact me at (318) 237-4389.

Respectfully,

GLOBAL INDUSTRIES OFFSHORE, INC.
HYDROSTATIC TESTING GROUP

Byron LeBlanc
Hydro-tester

BL/aar
Encl.



TABLE OF CONTENTS

DESCRIPTION	PAGE NO.
DEADWEIGHT RECORD	1
PRESSURE CHART	2
PIPE TEMPERATURE CHART	3
AMBIENT TEMPERATURE CHART	4
CERTIFICATIONS	5-8



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*** DEADWEIGHT RECORD ***

A.F.E. NUMBER _____

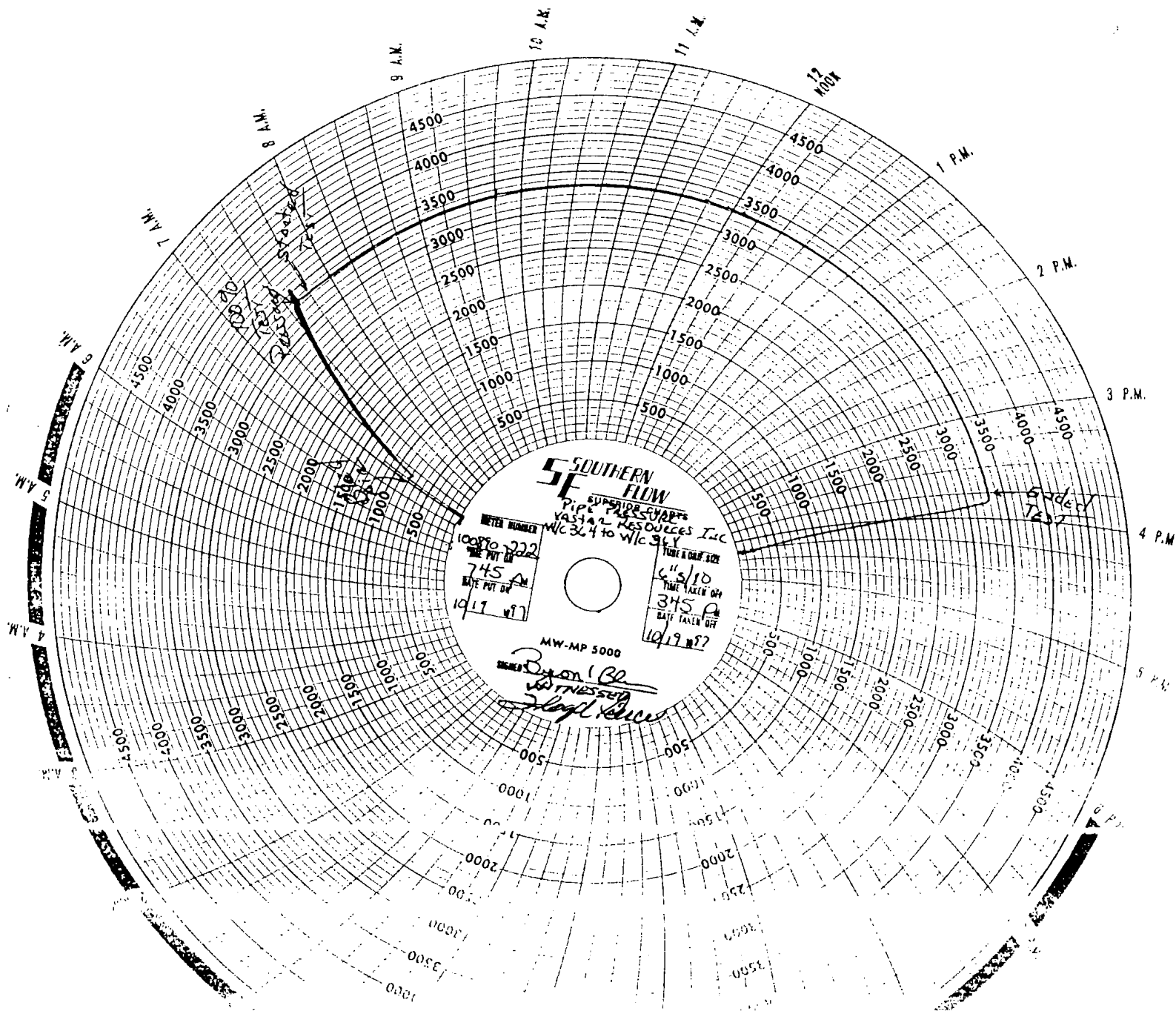
JOB NUMBER GIO 9044LINE OWNER Vastar Resources IncGENERAL CONTRACTOR Global Inc (Chas) D.DTEST SECTION FROM STA. W/C 364TO STATION W/C 368PIPE DESCRIPTION 17,200' of 6" S/S Pipe LineMINIMUM PIPE ELEVATION -90'MAXIMUM PIPE ELEVATION +15'ELEV. DEADWEIGHT TESTER +10'DATE & TIME TEST BEGAN 10/19/97 7:45aDATE & TIME TEST COMPLETED 10/19/97 2:50pMAXIMUM TEST PRESSURE 3400MINIMUM TEST PRESSURE 3300

TIME	DEAD WEIGHT READING	TEMPERATURE AMBIENT	TEMPERATURE PIPE
7:45	3392	72	80
8:00	3392	73	80
8:15	3389	74	82
8:30	3386	75	84
8:45	3384	75	86
9:00	3384	75	88
9:15	3383	76	88
9:30	3382	76	88
9:45	3382	76	88
10:00	3382	76	88
10:15	3382	76	88
10:30	3382	76	88
10:45	3382	76	88
11:00	3382	76	88
11:15	3382	78	87
11:30	3382	78	87
11:45	3382	78	87
12:00	3382	78	86
12:15	3382	78	84

TIME	DEAD WEIGHT READING	TEMPERATURE AMBIENT	TEMPERATURE PIPE
12:30	3382	78	84
12:45	3382	78	84
1:00	3382	78	84
1:15	3382	78	84
1:30	3382	78	84
1:45	3382	78	84
2:00	3382	78	84
2:15	3382	78	84
2:30	3382	78	85
2:45	3382	78	86
3:00	3382	78	86
3:15	3382	78	86
3:30	3382	78	86
3:45	3382	76	86

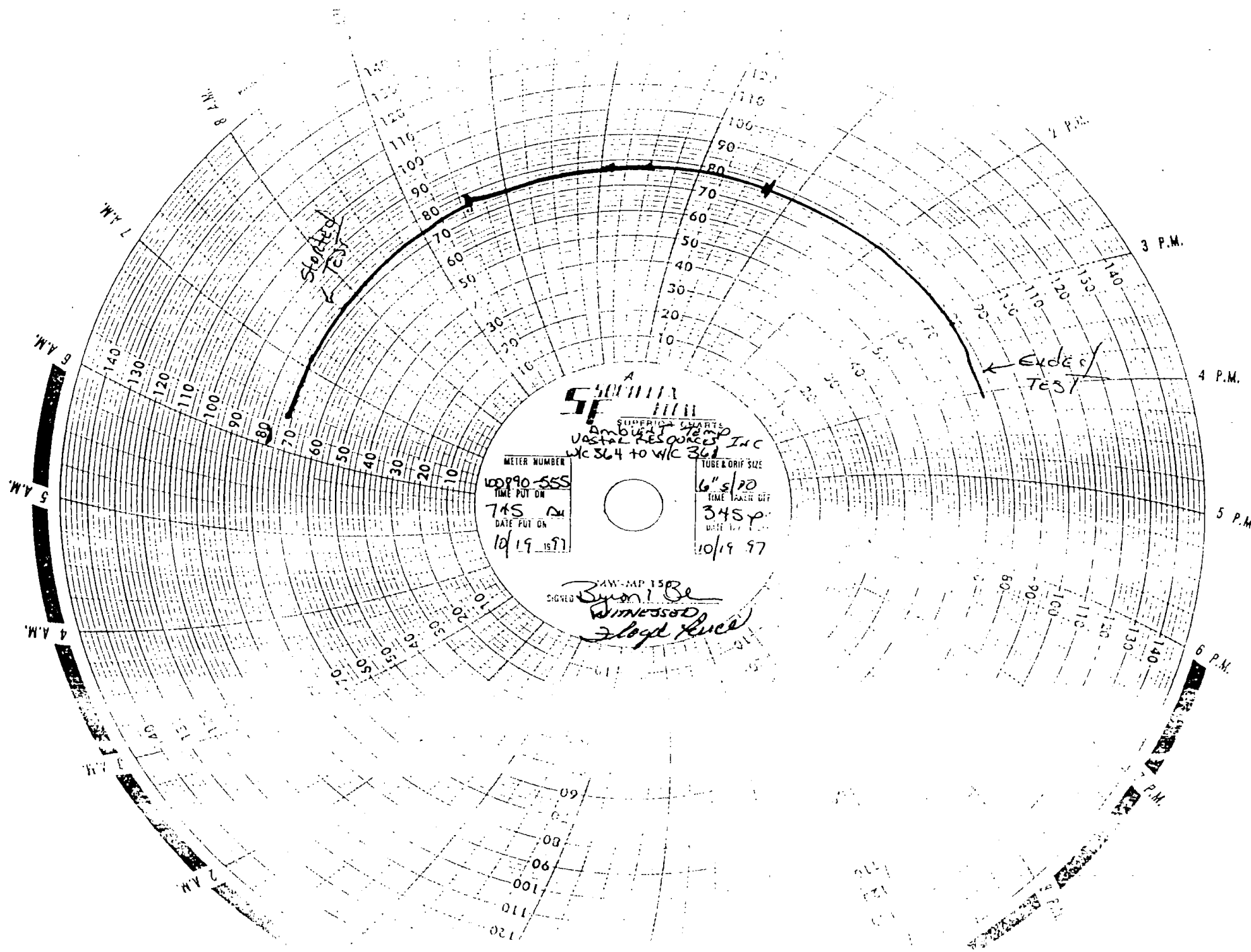
RESULTS OF TEST: ☒ ACCEPTABLE☐ UNACCEPTABLEDURATION OF TEST 8 HRS.CONTRACTOR'S REP. [Signature]OWNER'S REP. [Signature]TESTER'S REP. [Signature]DEADWEIGHT SERIAL NUMBER 49181-1AMBIENT TEMPERATURE RECORDER S/N 100810-555PIPE PRESSURE S/N 100850-222PIPE TEMPERATURE S/N 51195-R1

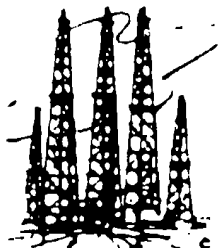
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**DOWN
HOLE
PRESSURE, INC.**
INSTRUMENT RENTALS & REPAIRS

Phone (318) 837-2755
Fax (318) 837-2756

1036-A South Cruse Ave.
Broussard, LA 70518

Surface Gauges
Dead Weight Testers
Barton Recorders
Vaetrix Gauge 1
5, 10 & 20,000 PSI

Sub Surface Gauges
Electronic & Mechanical
0-25,000 PSI Ranges
Temperature Gauges
0-450 Degrees F.

CALIBRATION CERTIFICATE

VAETRIX GAUGE 1

SERIAL NUMBER 49181-1

PRESSURE RANGE 10000 PSI

Calbrated in Vertical Position

Temperature 71° F.

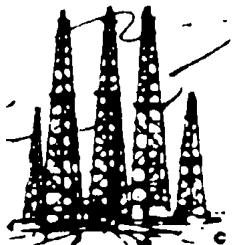
This is to certify that this instrument has been inspected and tested against Pressure Standard Chandler Engineering Dead Weight Tester Model # 58-200H, Serial # 16210 traceable to the National Institute of Standards and Techology, NIST Reference # 105, Procedure # MTP-142. Calibration Control # 040197099-01. The calibration system conforms to the requirements of ISO-9000 criteria. (MIL-STD. 45662A). Date Calibrated (04/01/1997).

Special Conditions: _____

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DATE OF CALIBRATION 5-12-97

TECHNICIAN Brian Broussard



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Temperature Gauges
0-450 Degrees F.

CALIBRATION CERTIFICATE

BARTON METER

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SERIAL NUMBER 100890-222

PRESSURE RANGE 5000 PSI

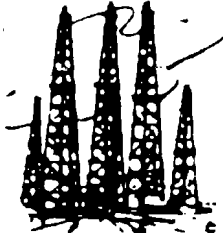
Calbrated in Vertical Position

Temperature 75 F.

This is to certify that this instrument has been inspected and tested against Pressure Standard Chandler Engineering Dead Weight Tester Model # 58-200H, Serial # 16210 traceable to the National Institute of Standards and Technology, NIST Reference # 105, Procedure # MTP-142. Calibration Control # 04297099-01. The calibration system conforms to the requirements of ISO-9000 criteria. (MIL-STD. 45662A). Date Calibrated (04-01-1997).

Special Conditions: _____

DATE OF CALIBRATION 9-17-97 TECHNICIAN Byron Helbert



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INSTRUMENT RENTALS & REPAIRS

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Fax (318) 837-2756

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Broussard, LA 70518

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Sub Surface Gauges
Electronic & Mechanical
0-25,000 PSI Ranges
Temperature Gauges
0-450 Degrees F.

TEMPERATURE CALIBRATION CERTIFICATE

BARTON METER

SERIAL NUMBER 100890-555 RANGE 0 TO 150 ° Deg. F.

Calbrated in Vertical Position

This is to certify that this instrument has been inspected and tested against Digital Thermometer No. 301800 traceable to National Institute of Standards & Technology (NIST) Instrument Model #10-TM99A-E & Probe Model #10-1075, Calibrated 05/09/1997.

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Special Conditions: _____

DATE OF CALIBRATION 9-17-97 TECHNICIAN Bruce Broussard



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Fax (318) 837-2756
1036-A South Cruse Ave.
Broussard, LA 70518

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Barton Recorders
Vaetrix Gauge 1
5, 10 & 20,000 PSI

Sub Surface Gauges
Electronic & Mechanical
0-25,000 PSI Ranges
Temperature Gauges
0-450 Degrees F.

TEMPERATURE CALIBRATION CERTIFICATE

BARTON METER

SERIAL NUMBER 202151195 R1

RANGE 0 TO 150° Deg. F.

Calibrated in Vertical Position

This is to certify that this instrument has been inspected and tested against Digital Thermometer No. 301800 traceable to National Institute of Standards & Technology (NIST) Instrument Model #10-TM99A-E & Probe Model #10-1075, Calibrated 05/09/1997.

Special Conditions: _____

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DATE OF CALIBRATION 9-17-97

TECHNICIAN Brian Broussard



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DEADWEIGHT RECORD

A.F.E. NUMBER _____

JOB NUMBER GIO 9044LINE OWNER Vastar Resources IncGENERAL CONTRACTOR Global Ind Coastal DivTEST SECTION FROM STA. W/C 364TO STATION W/C 368PIPE DESCRIPTION 17,200' of 6" S/80 PIPELINEMINIMUM PIPE ELEVATION -90'MAXIMUM PIPE ELEVATION +15'ELEV. DEADWEIGHT TESTER +10'DATE & TIME TEST BEGAN 10/19/97 745aDATE & TIME TEST COMPLETED 10/19/97 345pmMAXIMUM TEST PRESSURE 3400MINIMUM TEST PRESSURE 3300

TIME	DEAD WEIGHT READING	TEMPERATURE	
		AMBIENT	PIPE
745	3396	72	80
800	3392	73	80
815	3389	74	82
830	3386	75	84
845	3384	75	86
900	3384	75	88
915	3383	76	88
930	3382	76	88
945	3382	76	88
1000	3382	76	88
1015	3382	76	88
1030	3382	76	88
1045	3382	76	88
1100	3382	76	88
1115	3382	78	87
1130	3382	78	87
1145	3382	78	87
1200	3382	78	86
1215	3382	78	84

TIME	DEAD WEIGHT READING	TEMPERATURE	
		AMBIENT	PIPE
1230	3382	78	84
1245	3382	78	84
100	3382	78	84
115	3382	78	84
130	3382	78	84
145	3382	78	84
200	3382	78	84
215	3382	78	84
230	3382	78	85
245	3382	78	86
300	3382	78	86
315	3382	78	86
330	3382	78	86
345	3382	76	86

RESULTS OF TEST: ☒ ACCEPTABLE☐ UNACCEPTABLEDURATION OF TEST 8 HRS.CONTRACTOR'S REP. [Signature]OWNER'S REP. [Signature]TESTER'S REP. [Signature]DEADWEIGHT SERIAL NUMBER 49181-1AMBIENT TEMPERATURE RECORDER S/N 100890-555PIPE PRESSURE S/N 100890-222PIPE TEMPERATURE S/N 51195-R1



DOWN
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PRESSURE, INC.
INSTRUMENT RENTALS & REPAIRS

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Sub Surface Gauges
Electronic & Mechanical
0-25,000 PSI Ranges
Temperature Gauges
0-450 Degrees F.

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CALIBRATION CERTIFICATE

VAETRIX GAUGE 1

SERIAL NUMBER 49181-1

PRESSURE RANGE 10000 PSI

Calbrated in Vertical Position

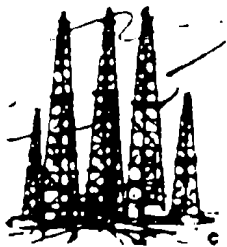
Temperature 71° F.

This is to certify that this instrument has been inspected and tested against Pressure Standard Chandler Engineering Dead Weight Tester Model # 58-200H, Serial # 16210 traceable to the National Institute of Standards and Techology, NIST Reference # 105, Procedure # MTP-142. Calibration Control # 040197099-01. The calibration system conforms to the requirements of ISO-9000 criteria. (MIL-STD. 45662A). Date Calibrated (04/01/1997).

Special Conditions: _____

DATE OF CALIBRATION 5-12-97

TECHNICIAN Brian Broussard



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INSTRUMENT RENTALS & REPAIRS

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Sub Surface Gauges
Electronic & Mechanical
0-25,000 PSI Ranges
Temperature Gauges
0-450 Degrees F.

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TEMPERATURE
CALIBRATION CERTIFICATE

BARTON METER

SERIAL NUMBER 202A51195 R1

RANGE 0 TO 150 Deg. F.

Calbrated in Vertical Position

This is to certify that this instrument has been inspected and tested against Digital Thermometer No. 301800 traceable to National Institute of Standards & Technology (NIST) Instrument Model #10-TM99A-E & Probe Model #10-1075, Calibrated 05/09/1997.

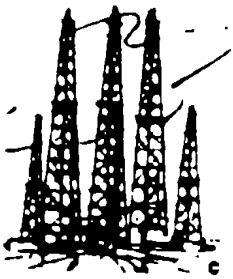
Special Conditions: _____

DATE OF CALIBRATION

9-17-97

TECHNICIAN

Brian Broussard



DOWN
HOLE
PRESSURE, INC.
INSTRUMENT RENTALS & REPAIRS

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1036-A South Cruse Ave.
Broussard, LA 70518

Surface Gauges
Dead Weight Testers
Barton Recorders
Vaetrix Gauge 1
5, 10 & 20,000 PSI

Sub Surface Gauges
Electronic & Mechanical
0-25,000 PSI Ranges
Temperature Gauges
0-450 Degrees F.

CALIBRATION CERTIFICATE

BARTON METER

BEST AVAILABLE COPY

SERIAL NUMBER 100890-222

PRESSURE RANGE 5000 PSI

Calibrated in Vertical Position

Temperature 75 F.

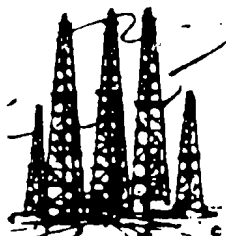
This is to certify that this instrument has been inspected and tested against Pressure Standard Chandler Engineering Dead Weight Tester Model # 58-200H, Serial # 16210 traceable to the National Institute of Standards and Technology, NIST Reference # 105, Procedure # MTP-142. Calibration Control # 04297099-01. The calibration system conforms to the requirements of ISO-9000 criteria. (MIL-STD. 45662A). Date Calibrated (04-01-1997).

Special Conditions: _____

DATE OF CALIBRATION 9-17-97

TECHNICIAN

Byron Hebert



DOWN
HOLE
PRESSURE, INC.
INSTRUMENT RENTALS & REPAIRS

Phone (318) 837-2755
Fax (318) 837-2756
1036-A South Cruse Ave.
Broussard, LA 70518

Surface Gauges
Dead Weight Testers
Barton Recorders
Vaetrix Gauge 1
5, 10 & 20,000 PSI

Sub Surface Gauges
Electronic & Mechanical
0-25,000 PSI Ranges
Temperature Gauges
0-450 Degrees F.

TEMPERATURE
CALIBRATION CERTIFICATE

BARTON METER

BEST AVAILABLE COPY

SERIAL NUMBER 100890-555 RANGE 0 To 150 ° Deg. F.

Calbrated in Vertical Position

This is to certify that this instrument has been inspected and tested against Digital Thermometer No. 301800 traceable to National Institute of Standards & Technology (NIST) Instrument Model #10-TM99A-E & Probe Model #10-1075, Calibrated 05/09/1997.

Special Conditions: _____

DATE OF CALIBRATION 9-17-97 TECHNICIAN Bruce Broussard

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PRINTED IN U.S.A.
W.Y. 8

5 A.M.

6 A.M.

7 A.M.

8 A.M.

11 A.M.

12 MIDD

2 P.M.

3 P.M.

4 P.M.

5 P.M.

6 P.M.

Wm. J. B.
Wm. J. B.
SIGNED
DATE 10/15/97
TIME 10:00 AM

METER NUMBER
51158-81
TIME PUT ON
745 AM
DATE PUT ON
10/15/97

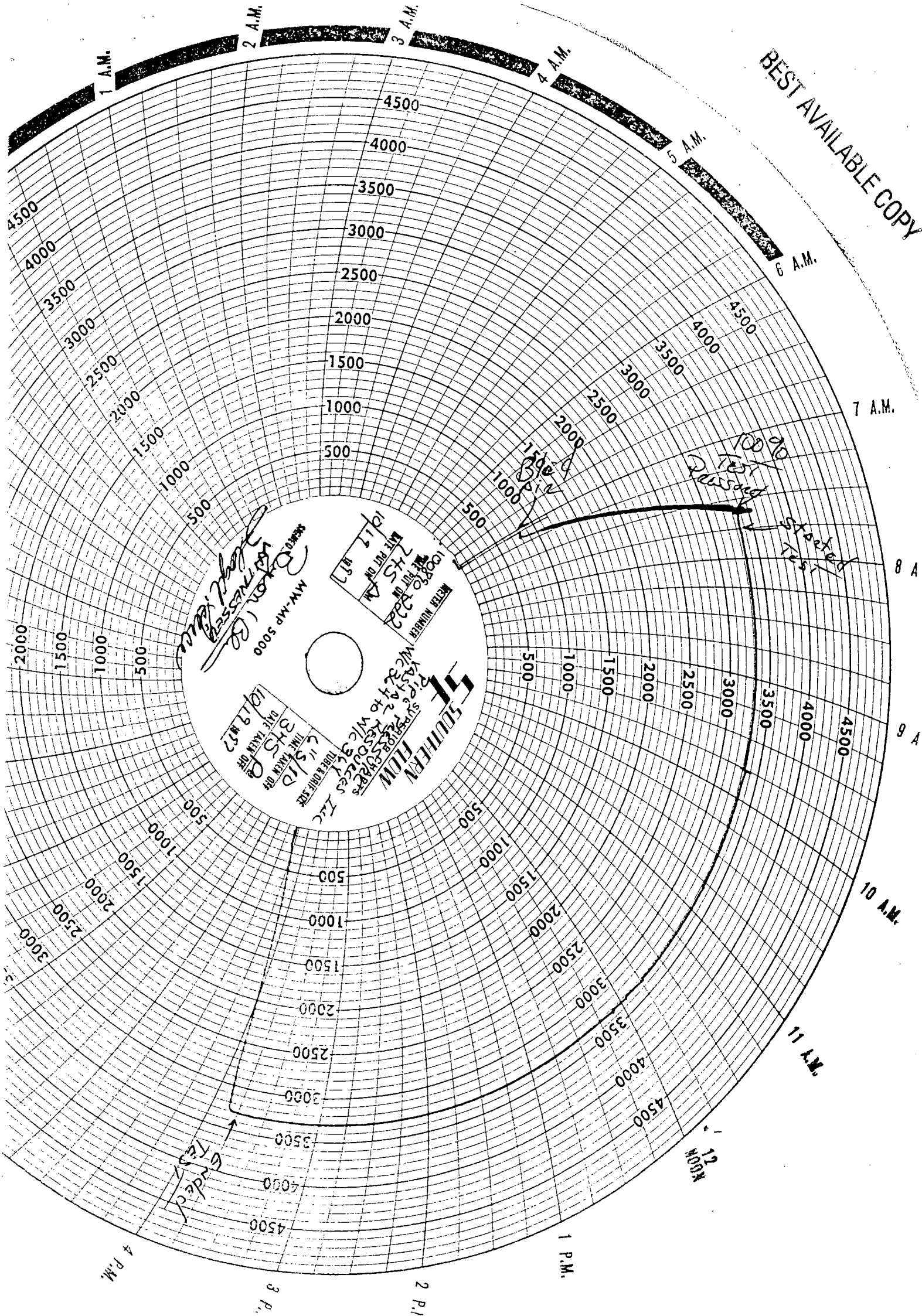
DATE TAKEN OFF
10/15/97
TIME TAKEN OFF
845 PM
6" S/PD
PIPE 15" MC 361
VASTAR TO MC 361

SOUTHERN
FILM
SUPERIOR CHARTS
TUBE & BODY SIZE

ENDED
TEST

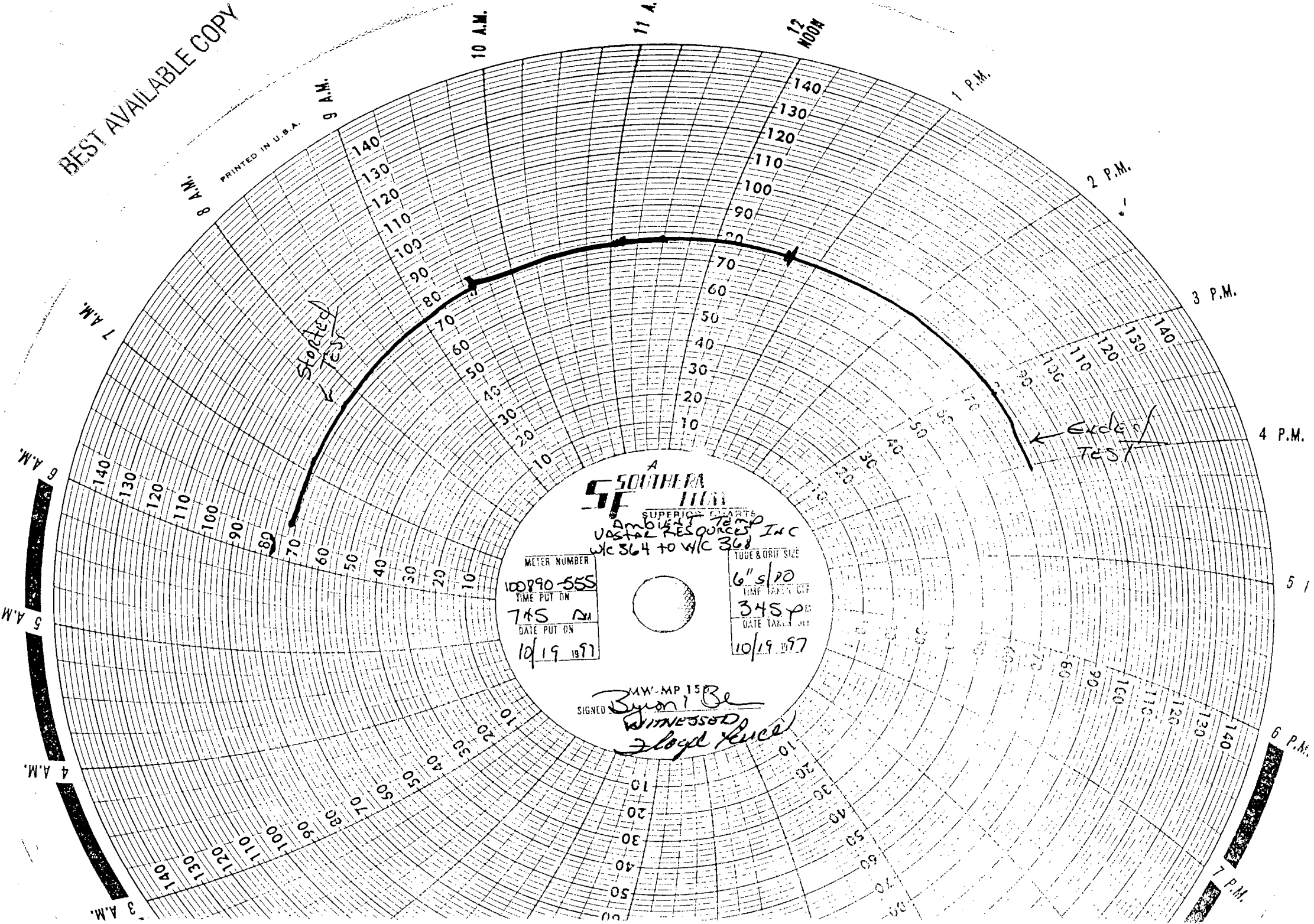
SPR
SPR

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A
SOUTHERN
HUM
SUPERIOR THERM
Ambient Temp
VASTAL RESOURCES INC
W/C 364 to W/C 368

METER NUMBER
100890-555
TIME PUT ON
7:45 AM
DATE PUT ON
10/19/1997

TUBE & ORIF SIZE
6" S/D
TIME TAKEN OFF
3:45 PM
DATE TAKEN OFF
10/19/1997

MW-MP 15
SIGNED Byron Be
WITNESSED Floyd Pence