STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

May 11, 1984

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Alpha Twenty-One Production Company
Post Office Box 1206
Jal, New Mexico 88252

Case 8215

Attention: Michael D. Oney

Re: Hardship Gas Well
Classification
BRC Madera Well No. 1,
Unit B, Section 29, T22S,
R27E, Eddy County

Gentlemen:

The above referenced hardship gas well classification has been set for hearing on June 6, 1984. The case will be heard by Examiner R. L. Stamets in the Oil Conservation Division Conference Room at 8 o'clock a.m.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

El Paso
Natural Gas Company

P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-541-2600

El Paso Natural Gas Company neither concurs with nor objects to this application. El Paso recognizes that some wells should definitely be recognized as "hardship" wells. El Paso believes it must express to the New Mexico Oil Conservation Division that anytime a well is declared a "hardship" well, then the extra production from that well must be taken from the total production from all other wells on our system. This increases the non-controllable gas taken into our system thereby reducing our flexibility of pipeline operations to take ratably and protect correlative rights.

ALPHA TWENTY-ONE PRODUCTION COMPANY

POST OFFICE BOX 1206
JAL, NEW MEXICO 88252

505/395-3056

August 16, 1984

Oil Conservation Division
P.O. Drawer DD
Artesia, NM 88210

ATTN: Mr. Les Clements

RE: BRC Madera No. 1
Sec. 29, T-22-S, R-27-E,
Eddy County, New Mexico

Gentlemen:

Enclosed for your review and records find the log-off test report, daily written reports for the test period, meter charts to document the test, and cost breakdown for the above referenced well.

If you desire anything further, please contact me.

Sincerely,

Michael D. Oney

Michael D. Oney,
Drilling Superintendent

MDO/tic
Enclosures

cc: Alpha Twenty-One Produciton Company
2100 First National Bank Building
Midland, TX 79701
ATTN: Mr. Tom Phipps

ALPHA TWENTY-ONE PRODUCTION COMPANY

POST OFFICE BOX 1206
JAL, NEW MEXICO 88252

505/395-3056

8-15-84

LOG-OFF TEST REPORT ON BRC MADERA NO. 1

Began log-off test on July 25, 1984 by rigging up 24-hour meters to measure flow rate, casing pressure, and tubing pressure. In order to establish the normal flow rate of approximately 750 MCFPD, we attemped to flow the well at different choke settings, but never succeeded in getting more than 650 MCFPD with 4-5 bbls of water per day. On Sunday, July 20, 1984, New Mexico Oil Conservation Division representative and Alpha Twenty-One Production Company representative decided to start at 600 MCFPD and try to log the well off. From a 30/64 choke, the well was flowed for 24 hours at each reduced setting and continued to make water until the choke setting was tested at 3/64. On the last 24-hour testing interval, with the choke setting turned down to a ¼/64, the rate was estimated at 210 MCFPD.

The results of this test were negative, that the well never logged off completely, but the well produced water at higher rates with lower tubing and casing pressures. As the pressures rose, water production dropped off.

There was a marked decrease in production on this well of 100 MCFPD which is directly connected to the testing during July and Gusugt and to the testing done a few weeks earlier. In the earlier test, the flow rate was dropped every two hours by reducing the choke settings. It was determined by the New Mexico Oil Conservation Division representative that the two hour intervals between choke reductions was not long enough to stabilize the well at those choke settings and at that time 24-hour testing equipment was installed.

The log-off test started on July 25, 1984 and ran through August 6, 1984. Find attached daily written reports and meter charts to document the test and a cost breakdown.

ALPHA TWENTY-ONE PRODUCTION COMPANY

POST OFFICE BOX 1206
JAL, NEW MEXICO 88252

505/395-3056

August 14, 1984

COST BREAKDOWN/BRC MADERA NO. 1 TEST

DATE	CONSULTANT	ORIFICE METER	PRESSURE RECORDER
7-25-84	$ 250.00	$37.50 for 5 days rental	$ 15.00
7-26-84	250.00		15.00
7-27-84	250.00		15.00
7-28-84	250.00		15.00
		($549.00 for pulling unit to swab)	
7-29-84	250.00		15.00
7-30-84	250.00	3.50	15.00
		($341.30 for pulling unit to swab)	
7-31-84	250.00	3.50	15.00
8-1-84	250.00	3.50	15.00
8-2-84	250.00	3.50	15.00
8-3-84	250.00	3.50	15.00
8-4-84	250.00	3.50	15.00
8-5-84	250.00	3.50	15.00
8-6-84	250.00	3.50	15.00

TOTALS

Consultant.....$3250.00
Ofifice Meter.....65.50
Pressure Recorder.....195.00
Pulling Unit.....890.30

GRAND TOTAL.....4400.80

ALPHA TWENTY-ONE PRODUCTION COMPANY

POST OFFICE BOX 1206
JAL, NEW MEXICO 88252

505/395-3056

August 13, 1984

Report on BRC Madera No. 1 as follows:

7-14-84 — Met Les Clements (Artesia OCD) on location at 8:00 a.m. Rigged up tubing pressure recorder, replaced casing guage, and opened up automatic valve. Establi hed rate on 30/64 choke on stack pac. Flowed well at different choke setting during the day to try and log off the well. Choke was eaten out because when shut-in, the well still flowed 192 MCF. Opened well back up to 20/64 choke and shut down until choke was fixed. Flowing 600 MCF when I left location.

7-17-84 — Shut well in. Put new choke on. Well shut-in for about one hour and opened choke to 12/64. Stabilized rate at this setting for two hours and closed choke to 6/64 and let stabilize. Would build a head and slowly drop the flow rate down. It took all day to stabilize rate at 6/64. Left choke on 6/64 all night to stabilize rate. Flowing 552 MCF when I left location.

7-18-84 — Well stabilized overnight at 522 MCF. Reduced choke and ran two hour stabilization tests all day. On each choke setting, well would not stabilize in two hours. Left well overnight on 1/64 choke to stabilize. Flowing approximately 200 MCF when I left at 7:00 p.m.

7-19-84 — 9:30 a.m. - tubing pressure at 900 psi, casing pressure at 1400 psi, flow rate at 213 MCF, choke size at 1/64. Stabilized well overnight at 213 MCF. Changed choke to ½/64. Let well flow all day at this setting. 3:00 p.m. - tubing pressure at 1050 psi, casing pressure at 1500 psi, flow rate at 67 MCF, choke size at ½/64. Flow had stabilized at 67 MCF. Let flow overnight at this rate.

7-20-84 — 8:45 a.m. - tubing pressure at 1100 psi, casing pressure at 1600 psi, flow rate at 254 MCF on ½/64 choke. Flowed on this choke setting to about 254 MCF. Talked with Les Clements and Mike Williams about test. They said we needed to run 24 hours tests with tubing, casing, and flow rate charts for 24 hours. Opened choke to 6/64 to produce about 600-600 MCFPD. Flowed water back when I opened it up.

7-25-84 Rigged up 24 hour orifice meter and pressure meter (casing and tubing) on well. Rate was 560 MCF, tubing at 600 psi, casing at 1000 psi, and 6/64 choke. When opened choke to get normal flow rate of 1000 MCFPD, nothing happened, too much water. Shut-in for 15 minutes to build up pressure. Opened up and rate went back to 560 MCF. Shut-in for one hour to build up pressure to get water out of tubing. Opened well up. Unloaded water and gas rate came up. Pinched choke back to 12/64 and left overnight.

7-26-84 8:00 a.m. - choke 12/64, tubing at 575 psi, casing at 900 psi, flow rate at 605 MCF, total fluid 4.64 bbls, water 3½ bbls. Opened choke to 30/64 to get normal rate and nothing happened. Shut well in for one hour to get enough pressure to unload hole of water to get normal rate of 1000 MCFPD. 3:00 p.m. - Flow rate down. Tried to drop soap sticks, but they wouldn't go. Shut in for about one hour, opened back up to 30/64 choke, and let flow overnight.

7-27-84 8:00 a.m. - choke 30/64, tubing at 600 psi, casing at 900 psi, flow rate at 457 MCF, total fluid 8',10" top, 3½" fluid, 4 bbls water. Well was loaded with water. Rate was up and down all night. Shut-in well and dropped three soap sticks for 30 minutes. Opened up and flowed well on 40/64. Pinched choke back to 30/64 and left overnight. At 3:00 p.m. rate had dropped back down. Having trouble getting well to flow at normal rate (1000 MCFPD). Left on 30/64 overnight.

7-28-84 8:00 a.m. - choke 30/64, tubing at 525 psi, casing at 825 psi, flow rate at 637 MCF, made 4" of water (4.64 bbls). Rate came up for a couple of hours this morning, but dropped back down to 600 MCF. Rigged pulling unit up to swab well, but couldn't get swab down. Dropped five soap sticks and shut well in for one hour. Opened well up on 50/64 choke and left there overnight.

7-29-84 8:00 a.m. - choke 50/64, tubing at 500 psi, casing at 790 psi, flow rate at 600 MCF, top gauge 9'7" for 5.8 bbls water, made 5" overnight. Pinched choke back to 30/64 and flowed for 24 hours. Never could get normal rate of 1000 MCFPD back after having flowed well on 600 MCFPD for over one week after first test.

7-30-84 8:00 a.m. - choke 30/64, tubing at 500 psi, casing at 950 psi, flow rate at 600 MCF, total fluid made 1.16 bbls (all water), top guage 9'8" (2'8" water). Pinched choke back to 15/64 and left for 24 hours. Rigged pulling unit down and released.

7-31-84 8:00 a.m. - choke 15/64, tubing at 500 psi, casing at 850 psi, flow rate at 600 MCF, made 4" water (4.64 bbls), top guage 10'0" (3'0" water). Rate stabilized until about 9:00 p.m. when the well headed up and blew water out. It then stabilized back at about 600 MCF. Pinched choke back to 6/64 and let flow overnight.

8-1-84

8:15 a.m. - choke 6/64, tubing at 575 psi, casing at 700 psi, flow rate at 580 MCF, made 6" total fluid, 4.64 bbls water and 2.32 bbls oil for a total of 6.96 bbls of fluid. Flow rate started at 600 MCF when first setting on choke at 6/64. Well unloaded some fluid that raised the rate slightly at a point where the line pressure dropped. Then the well unloaded big and after unloading, the rate averaged about 580 MCF. Pinched choke to 3/64 and left overnight.

8-2-84

8:00 a.m. - choke 3/64, tubing at 500 psi, casing at 1000 psi, flow rate at 570 MCF, no water or fluid produced, top guage (10'6") 3'4". On this choke setting, flow rate stabilized at 570 MCFPD. Line pressure stayed virtually the same all night. Pinched choke to about 2/64 and left overnight.

8-3-84

8:00 a.m. - choke 2/64, tubing at 575 psi, casing at 1100 psi, flow rate at 565 MCF, made zero fluid, top guage 10'6" (3'4"). Flow rate slowly rose over last 24 hours. No indication of build-up due to water. Slight increase in pressures. Pinched choke down to 1/64 and left for 24 hours.

8-4-84

8:00 a.m. - choke 1/64, tubing at 700 psi, casing at 1300 psi, flow rate averaged 448 MCF, no fluid made, top guage 10'6" (3'4"). Flow rate came up and stabilized at 448 MCF after having started out lower when choke was first pinched back to 1/64. Pinched choke to ½/64 and let flow for 24 hours.

8-5-84

8:00 a.m. - choke ½/64, tubing at 800 psi, casing at 1400 psi, flow rate at 345 MCF, no fluid made, top guage 10'6" (3'4"). Flow rate was steady for last 24 hours. No fluid build-up. Pinched choke to ¼/64 and left for 24 hours.

8-6-84

8:00 a.m. - choke ¼/64, tubing at 925 psi, casing at 1500 psi, flow rate 210 MCF, no fluid made, top guage 10'6" (3'4"). Flow rate remained steady for last 24 hours at 210 MCF. Opened choke to 32/64 to get back to normal rate.

ONEY

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

COMPANY

LEASE BRC Madera WELL NO. 1

COUNTY & STATE Eddy County, New Mexico

WORK PERFORMED DATE 7-25-84

Rigged up 24 hr. orfice meter and pressure meter (csg.: tubing) on well. Rate was 560 MCF, tubing - 600 psi, csg. - 1000 psi on 6/64" choke. When opened choke to get normal flowrate of 1000 MCFPD nothing happened, too much water. Shut-in for 15 mins. to build pressure up. Opened up and rate went back to 560 MCF. Shut-in for 1 hr. to build pressure to get water out of tubing. Opened well up. Unloaded water and gas rate came up. Pinch choke back to 12/64" and leave overnite.

Equipment Used

REVERSE UNIT SUBS

PIT

BIT NO.

DRILL COLLARS SIZE NO.

SAFETY CLAMP

D. C. SPIDER & SLIPS MILLS

PUMP ONLY

CASING SCRAPER SIZE

IMPRESSION BLOCKS SIZE

WASH PIPE FT. SIZE SHOES

OVERSHOT SIZE

MISC.

OPERATOR

APPROVED BY Mike Q

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

COMPANY

LEASE BLC Madera WELL NO. 1

COUNTY & STATE Eddy County, New Mexico

WORK PERFORMED DATE 7-26-84

8:00 am : choke 12/64", tubing - 575 psi, csg - 900 psi, flow rate - 605 MCF, total fluid - 464 bbls., water - 5½ bbls.
Opened choke to 30/64" to get normal rate and nothing happened. Shut well in for 1 hr. to get enough pressure to unload hole of water to get normal rate of 1000 MCFPD.
5:00 pm: Flow rate down. Tried to drop soap sticks but they wouldn't go. Shut-in for about 1 hr. Open back-up to 30/64" choke and let flow there overnite.

Equipment Used

REVERSE UNIT SUBS

PIT

BIT NO.

DRILL COLLARS SIZE NO.

SAFETY CLAMP

D. C. SPIDER & SLIPS MILLS

PUMP ONLY

CASING SCRAPER SIZE

IMPRESSION BLOCKS SIZE

WASH PIPE FT. SIZE SHOES

OVERSHOT SIZE

MISC.

OPERATOR

APPROVED BY Mike Ay

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

COMPANY

LEASE BRC Madera WELL NO. 1

COUNTY & STATE Eddy County, New Mexico

WORK PERFORMED DATE 7-27-84

8:00 am : choke - 30/64"; tubing - 600 psi; csg - 900 psi; flow rate - 457 MCF; total fluid - 810' top, 3½" fluid, 4[redacted] bbls water. Well was loaded w/ water. Rate was up and down all nite. Shut-in well and drop 3 soap sticks for 30 mins. Open up and flow well on 40/64". Pinch choke back to 30/64" and leave overnite at 3:00 pm. Rate had dropped back down. Having trouble getting well to flow at normal rate (1000 MCFPD). Leave on 30/64" choke overnite.

Equipment Used

REVERSE UNIT SUBS

PIT

BIT NO.

DRILL COLLARS SIZE NO.

SAFETY CLAMP

D. C. SPIDER & SLIPS MILLS

PUMP ONLY

CASING SCRAPER SIZE

IMPRESSION BLOCKS SIZE

WASH PIPE FT. SIZE SHOES

OVERSHOT SIZE

MISC.

OPERATOR

APPROVED BY Mike Q

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

COMPANY

LEASE BRC Madera WELL NO. 1

COUNTY & STATE Eddy County, New Mexico

WORK PERFORMED DATE 7-28-84

8:00am: 30/64" choke, 525 psi tubing, 825 psi casing, flow rate - 637 MCF, made 4" of water (4.64 bbls) Rate came up for a couple of hours this morning, but dropped back down to 600 MCF. Rig pulling unit up to swab well. Couldn't get swab down. Dropped 5 soap sticks. Shut well in for 1 hr. Open well up on 50/64" choke and leave there overnite.

Equipment Used

REVERSE UNIT SUBS

PIT

BIT NO.

DRILL COLLARS SIZE NO.

SAFETY CLAMP

D. C. SPIDER & SLIPS MILLS

PUMP ONLY

CASING SCRAPER SIZE

IMPRESSION BLOCKS SIZE

WASH PIPE FT. SIZE SHOES

OVERSHOT SIZE

MISC.

OPERATOR

APPROVED BY Mike Ogg

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

COMPANY

LEASE BRC Madera WELL NO. 1

COUNTY & STATE Eddy County, New Mexico

WORK PERFORMED DATE 7-29-84

8:00am: choke - 30/64"; tubing - 500psi; casing - 790psi; flow rate - 600 MCF; top gauge 9'7" for 58 bbls. water, made 5" overnite.

Pinch choke back to 30/64" and flow for 24 hrs. Never could get normal rate of 1000 MCFPD back after having flowed well on 600 MCFPD for over 1 week after first test.

Equipment Used

REVERSE UNIT SUBS

PIT

BIT NO.

DRILL COLLARS SIZE NO.

SAFETY CLAMP

D. C. SPIDER & SLIPS MILLS

PUMP ONLY

CASING SCRAPER SIZE

IMPRESSION BLOCKS SIZE

WASH PIPE FT. SIZE SHOES

OVERSHOT SIZE

MISC.

OPERATOR

APPROVED BY Mike Quy

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

)MPANY

:ASE BRC Madura WELL NO. 1

)UNTY & STATE Eddy County, New Mexico

)RK PERFORMED DATE 7-30-84

8:00am: choke 30/64", tubing-500, casing-950, flow rate-600 MCF total fluid made 1.16 bbls. (all water) top gauge 9'8" (2'8" water).

Inch choke back to 15/64" and leave for 24 hrs.

Rig pulling unit down and release.

Equipment Used

:VERSE UNIT SUBS

T

T NO.

:ILL COLLARS SIZE NO.

.FETY CLAMP

C. SPIDER & SLIPS MILLS

)MP ONLY

.SING SCRAPER SIZE

:PRESSION BLOCKS SIZE

ASH PIPE FT. SIZE SHOES

'ERSHOT SIZE

ISC.

'ERATOR

APPROVED BY Mike Ong

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

'OMPANY

.EASE BRC Madera WELL NO. 1

OUNTY & STATE Eddy County, New Mexico

VORK PERFORMED DATE 7-31-84

8:00am: 15/64" choke; 500psi tubing; 850psi casing; 600 MCF flow rate; made 4" water (4.64 bbls.), top gauge 10'0" (3'0" wate

Rate stablized until about 9:00pm when the well headed up and blew water out. It then stablized back at about 600 MCF. Pinch chock back to 6/64" and let flow overnite.

Equipment Used

EVERSE UNIT SUBS

IT

IT NO.

RILL COLLARS SIZE NO.

AFETY CLAMP

. C. SPIDER & SLIPS MILLS

UMP ONLY

ASING SCRAPER SIZE

MPRESSION BLOCKS SIZE

VASH PIPE FT. SIZE SHOES

VERSHOT SIZE

ISC.

PERATOR

APPROVED BY Mike Ay

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

OMPANY

EASE BRC Madera WELL NO. 1

OUNTY & STATE Eddy County, New Mexico

'ORK PERFORMED DATE 8-1-85

8:15am: 6/64" choke; 575 psi tubing; 700 psi casing; flow rate of 580 MCF; made 6" total fluid, 4.64 bbls. water and 2.32 bbls. oil for total of 6.96 bbls. of fluid.

Flow rate started at 600 MCF when first setting on choke at 6/64". Well unloaded some fluid that raised the rate slightly. At which point the line pressure dropped then the well unloaded big and after unloading the rate averaged about 580 MCF. Pinch choke to 3/64" and leave overnight.

Equipment Used

EVERSE UNIT SUBS

IT

IT NO.

RILL COLLARS SIZE NO.

AFETY CLAMP

. C. SPIDER & SLIPS MILLS

UMP ONLY

ASING SCRAPER SIZE

MPRESSION BLOCKS SIZE

'ASH PIPE FT. SIZE SHOES

VERSHOT SIZE

ISC.

PERATOR

APPROVED BY

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

COMPANY

LEASE BKC Madura WELL NO. 1

COUNTY & STATE Eddy County, New Mexico

WORK PERFORMED DATE 8-2-84

8:00 am: 3/64" choke; 500 psi tubing; 1000 psi casing; 570 MCF flow rate; no water or fluid produced - top gauge (106") 3/4".

On this choke setting, flow rate stablized at 570 MCFPD Line pressure stayed virtually the same all night. Pinch choke to about 2/64" and leave overnight.

Equipment Used

REVERSE UNIT SUBS

BIT

BIT NO.

DRILL COLLARS SIZE NO.

SAFETY CLAMP

D. C. SPIDER & SLIPS MILLS

PUMP ONLY

CASING SCRAPER SIZE

IMPRESSION BLOCKS SIZE

WASH PIPE FT. SIZE SHOES

OVERSHOT SIZE

MISC.

OPERATOR

APPROVED BY Mike Q

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

OMPANY

EASE BRC Madera WELL NO. 1

OUNTY & STATE Eddy County, New Mexico

/ORK PERFORMED DATE 8-3-84

8:00am: 2/64" choke; tubing 575 psi; casing 1100 psi; flow rate 565 MCF; made zero fluid, top gauge 10'6" (34")

Flow rate slowly rose over last 24 hrs. No indication of build up due to water. Slight increase in pressures. Pinch choke down to 1/64" and leave for 24 hrs.

Equipment Used

EVERSE UNIT SUBS

IT

IT NO.

RILL COLLARS SIZE NO.

AFETY CLAMP

. C. SPIDER & SLIPS MILLS

UMP ONLY

ASING SCRAPER SIZE

MPRESSION BLOCKS SIZE

ASH PIPE FT. SIZE SHOES

VERSHOT SIZE

ISC.

PERATOR

APPROVED BY Mike Q

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

COMPANY

LEASE BRC Madera WELL NO. 1

COUNTY & STATE Eddy County, New Mexico

WORK PERFORMED DATE 8-4-84

8:00 am: 1/64" choke; 700 psi tubing; 1300 psi casing; 448 MCF average flow rate; no fluid made, top gauge 10'6" (3'4")

Flow rate came up and stablized @ 448 MCF after having started out lower when choke was first pinched back to 1/64". Pinch choke to 1/2/64" and let flow for 24 hrs.

Equipment Used

REVERSE UNIT SUBS

PIT

BIT NO.

DRILL COLLARS SIZE NO.

SAFETY CLAMP

D. C. SPIDER & SLIPS MILLS

PUMP ONLY

CASING SCRAPER SIZE

IMPRESSION BLOCKS SIZE

WASH PIPE FT. SIZE SHOES

OVERSHOT SIZE

MISC.

OPERATOR

APPROVED BY Mike Ong

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

COMPANY

LEASE BRC Madera WELL NO. 1

COUNTY & STATE Eddy County, New Mexico

WORK PERFORMED DATE 8-5-84

8:00 am: 1/2/64" choke; tubing 800 psi; casing 400 psi; 345 MCF flow rate; no fluid made - top gauge 10'6" (3'4")

Flow rate was steady for last 24 hrs. No fluid buildup. Pinch choke to 1/4/64" and leave for 24 hrs.

Equipment Used

REVERSE UNIT SUBS

PIT

BIT NO.

DRILL COLLARS SIZE NO.

SAFETY CLAMP

D. C. SPIDER & SLIPS MILLS

PUMP ONLY

CASING SCRAPER SIZE

IMPRESSION BLOCKS SIZE

WASH PIPE FT. SIZE SHOES

OVERSHOT SIZE

MISC.

OPERATOR

APPROVED BY Mike Q

ALPHA TWENTY-ONE PRODUCTION COMPANY

JAL, NEW MEXICO 88252

OPERATOR'S DAILY DRILLING REPORT

OMPANY

EASE BRC Madera WELL NO. 1

OUNTY & STATE Eddy County, New Mexico

VORK PERFORMED DATE 8-6-84

8:00am: 14/64" choke; 925 psi tubing; 1500 psi casing; 210 MCF flow rate; no fluid made - top gauge 10'6" (3/4")

Flow rate remained steady for last 24 hrs. @ 210 MCF

Open choke to 32/64" to get back to normal rate.

Equipment Used

EVERSE UNIT SUBS

IT

IT NO.

RILL COLLARS SIZE NO.

AFETY CLAMP

. C. SPIDER & SLIPS MILLS

UMP ONLY

ASING SCRAPER SIZE

MPRESSION BLOCKS SIZE

ASH PIPE FT. SIZE SHOES

VERSHOT SIZE

ISC.

PERATOR

APPROVED BY Mike Q

LOG OFF TEST DATA SHEET

Flow Test No. _____

Company ALPHA 21 Lease and Well No. BRC MADERA #1

Pool Name S. CARLSBAD MORROW Section 29 Township 28 Range 27

Min. Rate Requested by Co. _____ MCF Date of Test 7-29-30-84

Company Rep. MIKE ONEY Time Test Started 8am

Division Rep. _____

PRODUCTION DATA

OIL/CONDENSATE		WATER	
Tank No. _____	Size H 280	Tank No. _____	Size _____
Closing Gage 9'8"	Bbls. _____	Closing Gage 2'8"	Bbls. _____
Opening Gage 9'7"	Bbls. _____	Opening Gage 2'7"	Bbls. _____
Total Produced '"	Bbls. Ø	Total Produced '1"	Bbls. 116

Total Fluid - Condensate + Water 116 bbls.

GAS MEASUREMENT DATA

Orfice Meter · Static Lbs. 2000 # Differential-Inches 100"

Meter Loop Size 4.00 X Plate Size 1.00"

Flange Tap ✓ Or Pipe Tap _____

Chart L-10 _____ Or Standard ✓

Gas Gravity .9989 Average Gas Temp. 77°F

WELL DATA

Choke Size 30/64" Tubing Recorder Range 5000 Lbs.

Casing Recorder Range 5000 Lbs.

Tubing Opening Pressure 525 Casing Opening Pressure 800

Tubing Closing Pressure 525 Casing Closing Pressure 950

Did well stabilize in 24 hour test period? Yes _____ No _____

If YES how long stabilized flow? _____ _____ hrs.

CALCULATIONS

Average Static _____ Average Differential _____

Orfice Factor 6.135 X Diff. _____ X Stat.Ext. _____ X Temp.Factor _____

X Sp.Gr.Factor _____ = Volume/Gas _____ MCF ÷ Fluid _____

= _____ Fluid/Gas Ratio Cu. ft./bbl.

LOG OFF TEST DATA SHEET

Flow Test No. _____

Company ALPHA 21 PRODUCTION Lease and Well No. BRC MADERA #1

Pool Name S. CARLSBAD MORROW Section 29 Township 28 Range 27

Min. Rate Requested by Co. _____ MCF Date of Test 7-30-31-84

Company Rep. MIKE ONEY Time Test Started 8am

Division Rep. _____

PRODUCTION DATA

OIL/CONDENSATE		WATER	
Tank No. _____	Size _____	Tank No. _____	Size _____
Closing Gage 10' 0 "	Bbls. _____	Closing Gage 3' 0 "	Bbls. _____
Opening Gage 9' 8 "	Bbls. _____	Opening Gage 2' 8 "	Bbls. _____
Total Produced ' "	Bbls. _____	Total Produced ' 4 "	Bbls. 4.64

Total Fluid - Condensate + Water 4.64 bbls

GAS MEASUREMENT DATA

Orfice Meter · Static Lbs. 2000 # Differential-Inches 100"

Meter Loop Size 4.00 X Plate Size 1.00"

Flange Tap ✓ Or Pipe Tap _____

Chart L-10 _____ Or Standard ✓

Gas Gravity .9989 Average Gas Temp. 79°F

WELL DATA

Choke Size 15/64" Tubing Recorder Range 5000 Lbs.

Casing Recorder Range 5000 Lbs.

Tubing Opening Pressure 525 Casing Opening Pressure 950

Tubing Closing Pressure 500 Casing Closing Pressure 850

Did well stabilize in 24 hour test period? Yes _____ No _____

If YES how long stabilized flow? _____ _____ hrs.

CALCULATIONS

Average Static _____ Average Differential _____

Orfice Factor _____ X Diff. _____ X Stat. Ext. _____ X Temp. Factor _____

X Sp. Gr. Factor _____ = Volume/Gas _____ MCF ÷ Fluid _____

= _____ Fluid/Gas Ratio Cu. ft./bbl.

LOG OFF TEST DATA SHEET

Flow Test No. _____

Company ALPHA 21 Lease and Well No. BRC MADERA #1

Pool Name S. CARLSBAD MORROW Section 29 Township 28 Range 27

Min. Rate Requested by Co. _____ MCF Date of Test 7-30 · 8-1-89

Company Rep. MIKE ONEY Time Test Started 8:00AM

Division Rep. _____

PRODUCTION DATA

OIL/CONDENSATE		WATER	
Tank No. _____	Size 4280	Tank No. _____	Size _____
Closing Gage 10' 6"	Bbls. _____	Closing Gage 3' 4"	Bbls. _____
Opening Gage 10' 0"	Bbls. _____	Opening Gage 3' 0"	Bbls. _____
Total Produced 2"	Bbls. 2.32	Total Produced 4"	Bbls. 464

Total Fluid - Condensate + Water 6.96 BBLS.

GAS MEASUREMENT DATA

Orfice Meter · Static Lbs. 2000# Differential-Inches 100"

Meter Loop Size 4.00X Plate Size 1.00"

Flange Tap ✓ Or Pipe Tap _____

Chart L-10 _____ Or Standard ✓

Gas Gravity .9989 Average Gas Temp. 82

WELL DATA

Choke Size 6/64" Tubing Recorder Range 5000 Lbs.

Casing Recorder Range 5000 Lbs.

Tubing Opening Pressure 500 Casing Opening Pressure 850

Tubing Closing Pressure 475 Casing Closing Pressure 700

Did well stabilize in 24 hour test period? Yes _____ No _____

If YES how long stabilized flow? _____ hrs.

CALCULATIONS

Average Static _____ Average Differential _____

Orfice Factor _____ X Diff. _____ X Stat.Ext. _____ X Temp.Factor _____

X Sp.Gr.Factor _____ = Volume/Gas _____ MCF ÷ Fluid _____

= _____ Fluid/Gas Ratio Cu. ft./bbl.

LOG OFF TEST DATA SHEET

Flow Test No. ____

Company ALPHA 21 Lease and Well No. BRC MADERA #1

Pool Name S. CARLSBAD MORROW Section 29 Township 28 Range 27

Min.Rate Requested by Co. ____ MCF Date of Test 8-12-84

Company Rep. MIKE ONEY Time Test Started 8am

Division Rep. ____

PRODUCTION DATA

OIL/CONDENSATE	WATER
Tank No. ____ Size H 280	Tank No. ____ Size ____
Closing Gage 10'6" Bbls. ____	Closing Gage 3'4" Bbls. ____
Opening Gage 10'6" Bbls. ____	Opening Gage 3'4" Bbls. ____
Total Produced '0" Bbls. ____	Total Produced '0" Bbls. ____

Total Fluid - Condensate + Water 0

GAS MEASUREMENT DATA

Orfice Meter · Static Lbs. 2000# Differential-Inches 100"

Meter Loop Size 4.00X Plate Size 1.00"

Flange Tap ✓ Or Pipe Tap ____

Chart L-10 ____ Or Standard ✓

Gas Gravity .9989 Average Gas Temp. 80°F

WELL DATA

Choke Size 3/64" Tubing Recorder Range 5000 Lbs.

Casing Recorder Range 5000 Lbs.

Tubing Opening Pressure 475 Casing Opening Pressure 700

Tubing Closing Pressure 500 Casing Closing Pressure 1000

Did well stabilize in 24 hour test period? Yes ____ No ____

If YES how long stabilized flow? ____ ____ hrs.

CALCULATIONS

Average Static ____ Average Differential ____

Orfice Factor ____ X Diff. ____ X Stat.Ext. ____ X Temp.Factor ____

X Sp.Gr.Factor ____ = Volume/Gas ____ MCF ÷ Fluid ____

= ____ Fluid/Gas Ratio Cu. ft./bbl.

LOG OFF TEST DATA SHEET

Flow Test No. _____

Company ALPHA Z1 Lease and Well No. BEC MADERA #1

Pool Name S. CARLSBAD MORROW Section 29 Township 28 Range 27

Min. Rate Requested by Co. _____ MCF Date of Test 8-23-84

Company Rep. MIKE ONEY Time Test Started _____

Division Rep. _____

PRODUCTION DATA

OIL/CONDENSATE		WATER	
Tank No. _____	Size H 280	Tank No. _____	Size _____
Closing Gage 10' 6 "	Bbls. _____	Closing Gage 3' 4 "	Bbls. _____
Opening Gage 10' 6 "	Bbls. _____	Opening Gage 3' 4 "	Bbls. _____
Total Produced 0 "	Bbls. _____	Total Produced 0 "	Bbls. _____

Total Fluid - Condensate + Water 0

GAS MEASUREMENT DATA

Orfice Meter: Static Lbs. 2000 # Differential-Inches 100"

Meter Loop Size 4.00 X Plate Size 1.00

Flange Tap ✓ Or Pipe Tap _____

Chart L-10 _____ Or Standard ✓

Gas Gravity .9989 Average Gas Temp. 82° F

WELL DATA

Choke Size 2/64" Tubing Recorder Range 5000 Lbs.

Casing Recorder Range 5000 Lbs.

Tubing Opening Pressure 500 Casing Opening Pressure 1000

Tubing Closing Pressure 575 Casing Closing Pressure 1100

Did well stabilize in 24 hour test period? Yes _____ No _____

If YES how long stabilized flow? _____ hrs.

CALCULATIONS

Average Static _____ Average Differential _____

Orfice Factor _____ X Diff. _____ X Stat. Ext. _____ X Temp. Factor _____

X Sp. Gr. Factor _____ = Volume/Gas _____ MCF ÷ Fluid _____

= _____ Fluid/Gas Ratio Cu. ft./bbl.

LOG OFF TEST DATA SHEET

Flow Test No. _____

Company ALPHA ZI Lease and Well No. BRC MADERA #1

Pool Name S. CARLSBAD MORROW Section 29 Township 28 Range 27

Min.Rate Requested by Co. _____ MCF Date of Test 8-3-4-84

Company Rep. MIKE ONEY Time Test Started 8am

Division Rep. _____

PRODUCTION DATA

OIL/CONDENSATE	WATER
Tank No. _____ Size H 280	Tank No. _____ Size _____
Closing Gage 10'6" Bbls. _____	Closing Gage 3'4" Bbls. _____
Opening Gage 10'6" Bbls. _____	Opening Gage 3'4" Bbls. _____
Total Produced '0" Bbls. _____	Total Produced '0" Bbls. _____

Total Fluid - Condensate + Water 0

GAS MEASUREMENT DATA

Orfice Meter Static Lbs. 2000# Differential-Inches 100"

Meter Loop Size 400X Plate Size 1.00"

Flange Tap ✓ Or Pipe Tap _____

Chart L-10 _____ Or Standard ✓

Gas Gravity .9989 Average Gas Temp. 78° F

WELL DATA

Choke Size 1/64" Tubing Recorder Range 5000 Lbs.

Casing Recorder Range 5000 Lbs.

Tubing Opening Pressure 575 Casing Opening Pressure 1100

Tubing Closing Pressure 700 Casing Closing Pressure 1300

Did well stabilize in 24 hour test period? Yes _____ No _____

If YES how long stabilized flow? _____ hrs.

CALCULATIONS

Average Static _____ Average Differential _____

Orfice Factor _____ X Diff. _____ X Stat.Ext. _____ X Temp.Factor _____

X Sp.Gr.Factor _____ = Volume/Gas _____ MCF ÷ Fluid _____

= _____ Fluid/Gas Ratio Cu. ft./bbl.

NO CHART.

LOG OFF TEST DATA SHEET

Flow Test No. _____

Company ALPHA 21 Lease and Well No. BRC MADERA #1

Pool Name S. CARLSBAD MORROW Section 29 Township 28 Range 27

Min.Rate Requested by Co. _____ MCF Date of Test 8-4 5-84

Company Rep. MIKE ONEY Time Test Started 8am

Division Rep. _____

PRODUCTION DATA

OIL/CONDENSATE	WATER
Tank No. _____ Size H 280	Tank No. _____ Size _____
Closing Gage 10' 6 " Bbls. _____	Closing Gage 3' 4 " Bbls. _____
Opening Gage 10' 6 " Bbls. _____	Opening Gage 3' 4 " Bbls. _____
Total Produced ' 0 " Bbls. _____	Total Produced ' 0 " Bbls. _____

Total Fluid - Condensate + Water 0

GAS MEASUREMENT DATA

Orfice Meter · Static Lbs. 2000# Differential-Inches 100"

Meter Loop Size 400X Plate Size 1.00"

Flange Tap ✓ Or Pipe Tap _____

Chart L-10 _____ Or Standard ✓

Gas Gravity .9989 Average Gas Temp. 80°F

WELL DATA

Choke Size 1/2 64" Tubing Recorder Range 5000 Lbs.

Casing Recorder Range 5000 Lbs.

Tubing Opening Pressure 700 Casing Opening Pressure 1100

Tubing Closing Pressure 800 Casing Closing Pressure 1400

Did well stabilize in 24 hour test period? Yes _____ No _____

If YES how long stabilized flow? _____ _____ hrs.

CALCULATIONS

Average Static _____ Average Differential _____

Orfice Factor _____ X Diff. _____ X Stat.Ext. _____ X Temp.Factor _____

X Sp.Gr.Factor _____ = Volume/Gas _____ MCF ÷ Fluid _____

= _____ Fluid/Gas Ratio Cu. ft./bbl.

LOG OFF TEST DATA SHEET

Flow Test No. _____

Company ALPHA 21 Lease and Well No. BRC MADERA #1

Pool Name S CARLSBAD MORROW Section 29 Township 23 Range 27

Min.Rate Requested by Co. _____ MCF Date of Test 8-5 6-84

Company Rep. MIKE ONEY Time Test Started 8am

Division Rep. _____

PRODUCTION DATA

OIL/CONDENSATE	WATER
Tank No. _____ Size _____	Tank No. _____ Size _____
Closing Gage 10' 6 " Bbls. _____	Closing Gage 3' 4 " Bbls. _____
Opening Gage 10' 6 " Bbls. _____	Opening Gage 3' 4 " Bbls. _____
Total Produced '0 " Bbls. _____	Total Produced '0 " Bbls. _____

Total Fluid - Condensate + Water 0

GAS MEASUREMENT DATA

Orfice Meter Static Lbs. 2000 # Differential-Inches 100"

Meter Loop Size 4.00 X Plate Size 1.00"

Flange Tap ✓ Or Pipe Tap _____

Chart L-10 _____ Or Standard ✓

Gas Gravity .9989 Average Gas Temp. 84°F

WELL DATA

Choke Size 1/4 /64" Tubing Recorder Range 5000 Lbs.

Casing Recorder Range 5000 Lbs.

Tubing Opening Pressure 800 Casing Opening Pressure 1400

Tubing Closing Pressure 925 Casing Closing Pressure 1500

Did well stabilize in 24 hour test period? Yes _____ No _____

If YES how long stabilized flow? _____ hrs.

CALCULATIONS

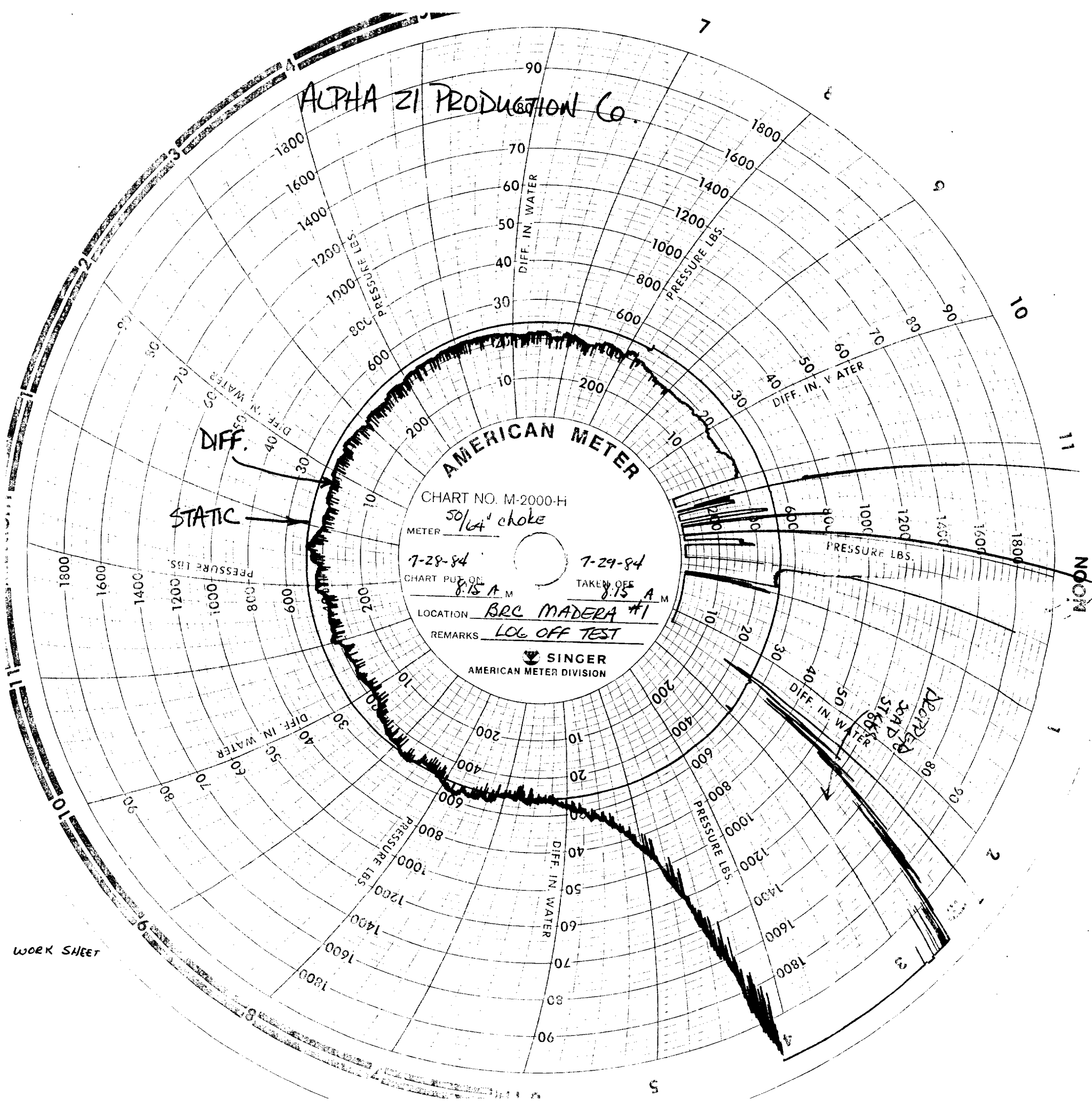
Average Static _____ Average Differential _____

Orfice Factor _____ X Diff._____ X Stat.Ext._____ X Temp.Factor _____

X Sp.Gr.Factor _____ = Volume/Gas _____ MCF ÷ Fluid _____

= _____ Fluid/Gas Ratio Cu. ft./bbl.

ALPHA 21 PRODUCTION CO.



NO WORK SHEET

ALPHA 21 PRODUCTION 6.

8

DROPPED SOAP STICKS

DIFF.

STATIC

AMERICAN METER

CHART NO. M-2000-H

METER

7-27-84 — CHART PUT ON — 8:30A M

7-28-84 — TAKEN OFF — 8:15 A M

LOCATION BRC MADERA #1

REMARKS LOG OFF TEST

SINGER
AMERICAN METER DIVISION

NOON

NO WORK SHEET

ALPHA 21 PRODUCTION CO.

AMERICAN METER

CHART NO. M-2000-H

METER

CHART PUT ON 7-26-84 8:15 A M

TAKEN OFF 7-27-84 8:15 A M

LOCATION BRC MADERA #1

REMARKS LOG OFF TEST

SINGER
AMERICAN METER DIVISION

DIFF.

STATIC

DIFF. IN WATER

PRESSURE LBS.

MIDNIGHT

NOON

6 PM

WORK SHEET.

ALPHA 21 PRODUCTION Co.

AMERICAN METER

4.00 x 1.00"

CHART NO. M-2000-H

100" x 2000#

1.16 bbls H_2O
0.0 CONDS
1.16 TOTAL

METER

7-29-84

CHART PUT ON 8:15 A M

7-30-84

TAKEN OFF 8:00 A M

LOCATION BRC MADERA #1

REMARKS L&L OFF TEST

SINGER
AMERICAN METER DIVISION

DIFF.

STATIC

PRESSURE LBS.

DIFF. IN. WATER

NOON

MIDNIGHT

ALPHA 21 PRODUCTION CO.

AMERICAN METER

4.00 x 1.00"

CHART NO. M-2000-H

100"x 2000#

4.64 66 H₂0

0.0 CORR

4.64

METER

7-30-84

CHART PUT ON 8:15 AM

7-31-84

TAKEN OFF 8:00 AM

LOCATION BRC MADERA #1

REMARKS LOG OFF TEST

SINGER

AMERICAN METER DIVISION

STATIC

DIFF.

DIFF. IN. WATER

PRESSURE LBS.

MIDNIGHT

NOON

6 PM

ALPHA 71 PRODUCTION 6.

AMERICAN METER

4.00x1.00

CHART NO. M-2000-H

100" x 2000#

2.32 Comp
4.64 H_2O
6.96 Fluid

METER

7-31-84 8:00 AM

CHART PUT ON

8-1-84 M

TAKEN OFF

LOCATION BRC MADERA #1

REMARKS LOG OFF TEST

SINGER
AMERICAN METER DIVISION

DIFF.

STATIC

6 AM
NOON
MIDNIGHT

DIFF. IN. WATER
PRESSURE LBS.

AL 4 21 PRODUCTION CO.

AMERICAN METER

4.00 f 1.00"

CHART NO. M-2000-H

100" x 2000#

METER

8-1-84 CHART PUT ON 8:15 A M

8-2-84 TAKEN OFF 8:00 A M

LOCATION BRC MADERA #1

REMARKS LOG OFF TEST

SINGER

AMERICAN METER DIVISION

STATIC

DIFF.

6 AM

NOON

MIDNIGHT

PRESSURE LBS.

DIFF. IN. WATER

ALPHA 21 PRODUCTION CO.

AMERICAN METER

4.00" X 1.00"

CHART NO. M-2000-H

100" X 2000#

METER

8-3-83

TAKEN 8:00 A M #1

8-2-83

CHART PUT ON 8:00 A M

LOCATION BRC Madura

REMARKS Log off test

SINGER

AMERICAN METER DIVISION

STATIC

DIFF.

PRESSURE LBS.

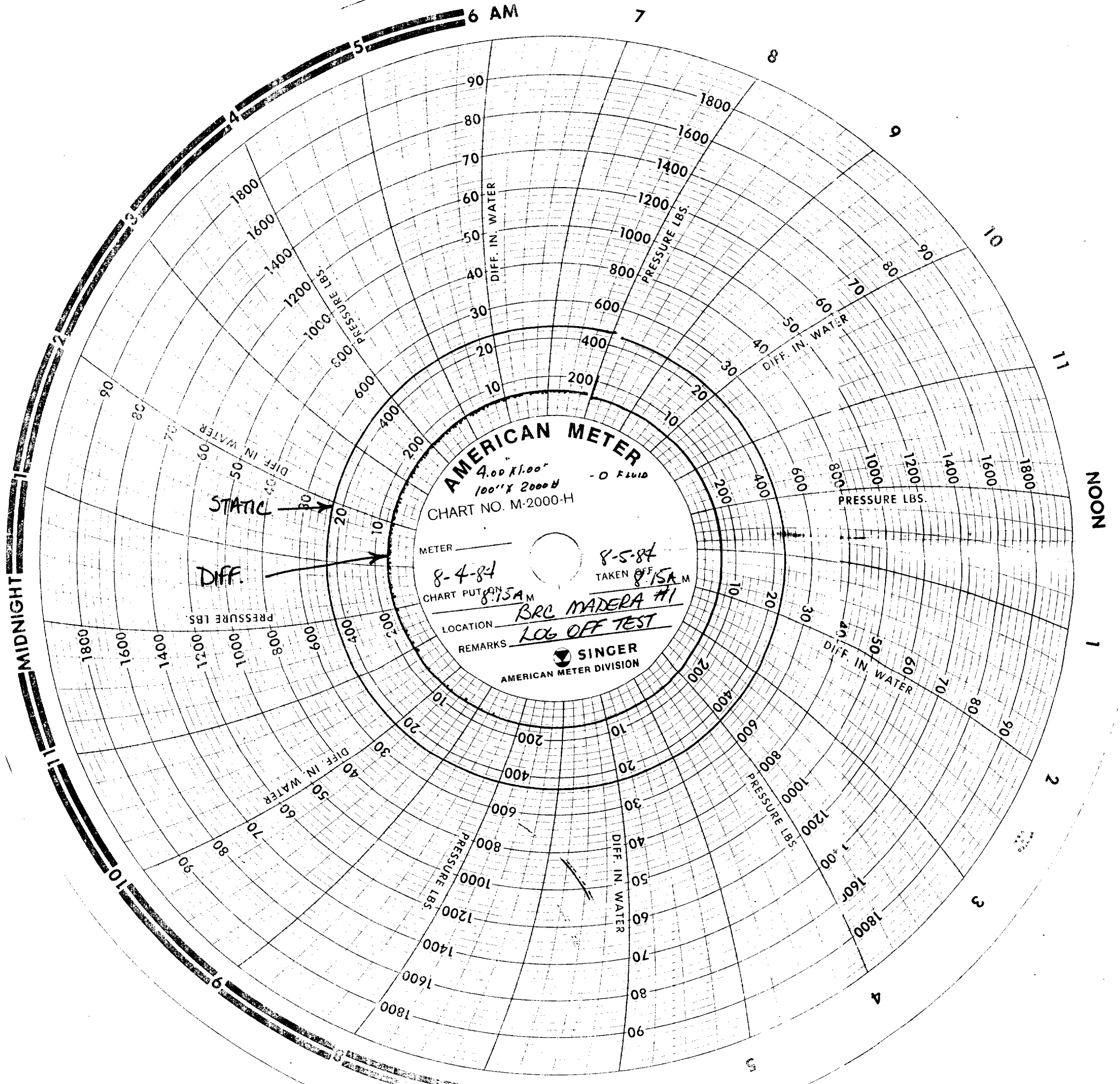
DIFF. IN. WATER

NOON

MIDNIGHT

6 PM

ALPHA 21 PRODUCTION CO.



ALPHA 21 PRODUCTION C

AMERICAN METER

4.00 X 1.00

2000# X 100"

O-FLUID

CHART NO. M-2000-H

METER

8-5-84 — CHART PUT ON — 8:00 AM

8-6-85 — TAKEN OFF — 8:00 AM

LOCATION BRC Madera #1

REMARKS LOG OFF TEST

SINGER

AMERICAN METER DIVISION

STATIC

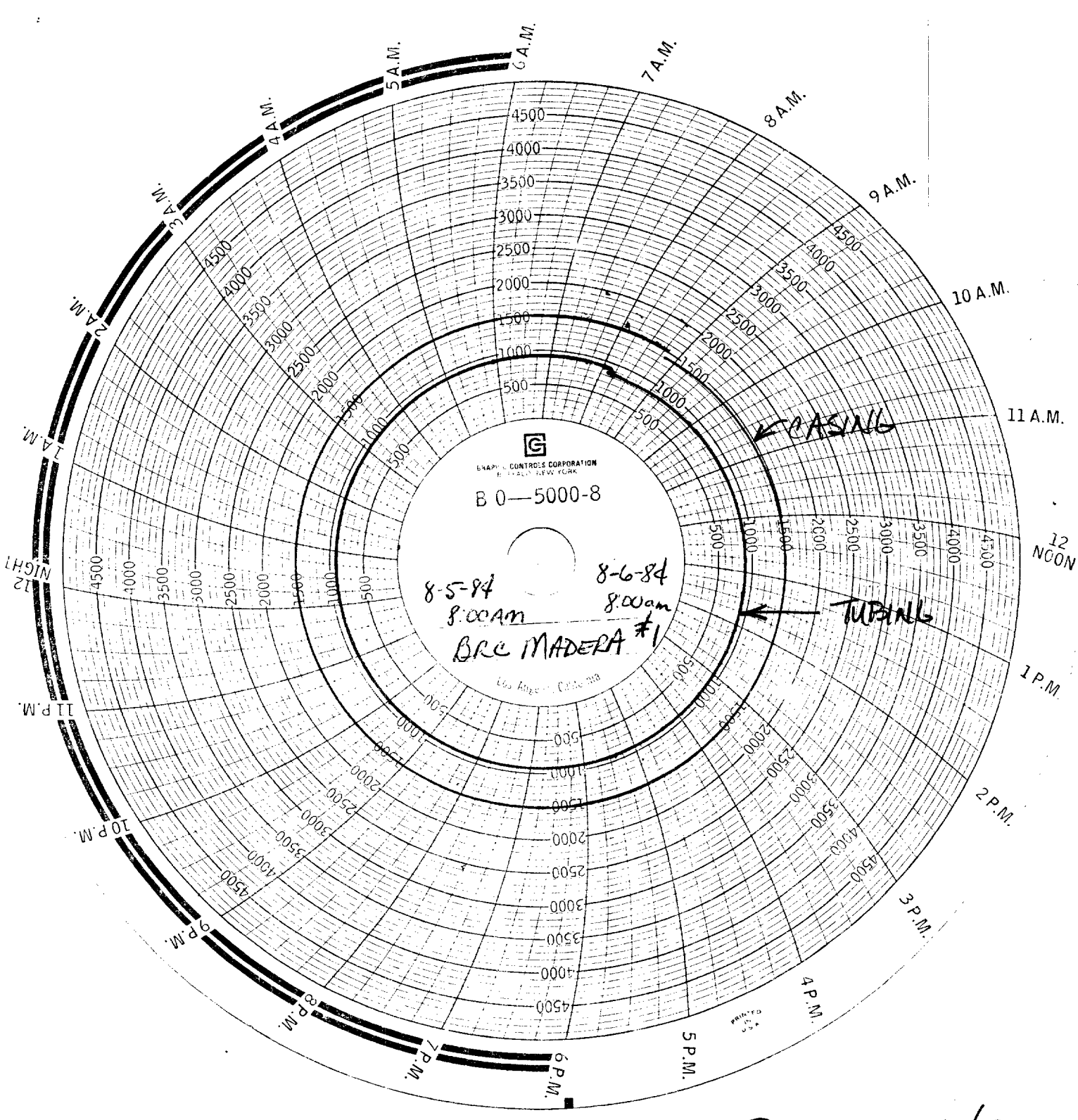
DIFF.

6 AM

NOON

DIFF. IN. WATER

PRESSURE LBS.



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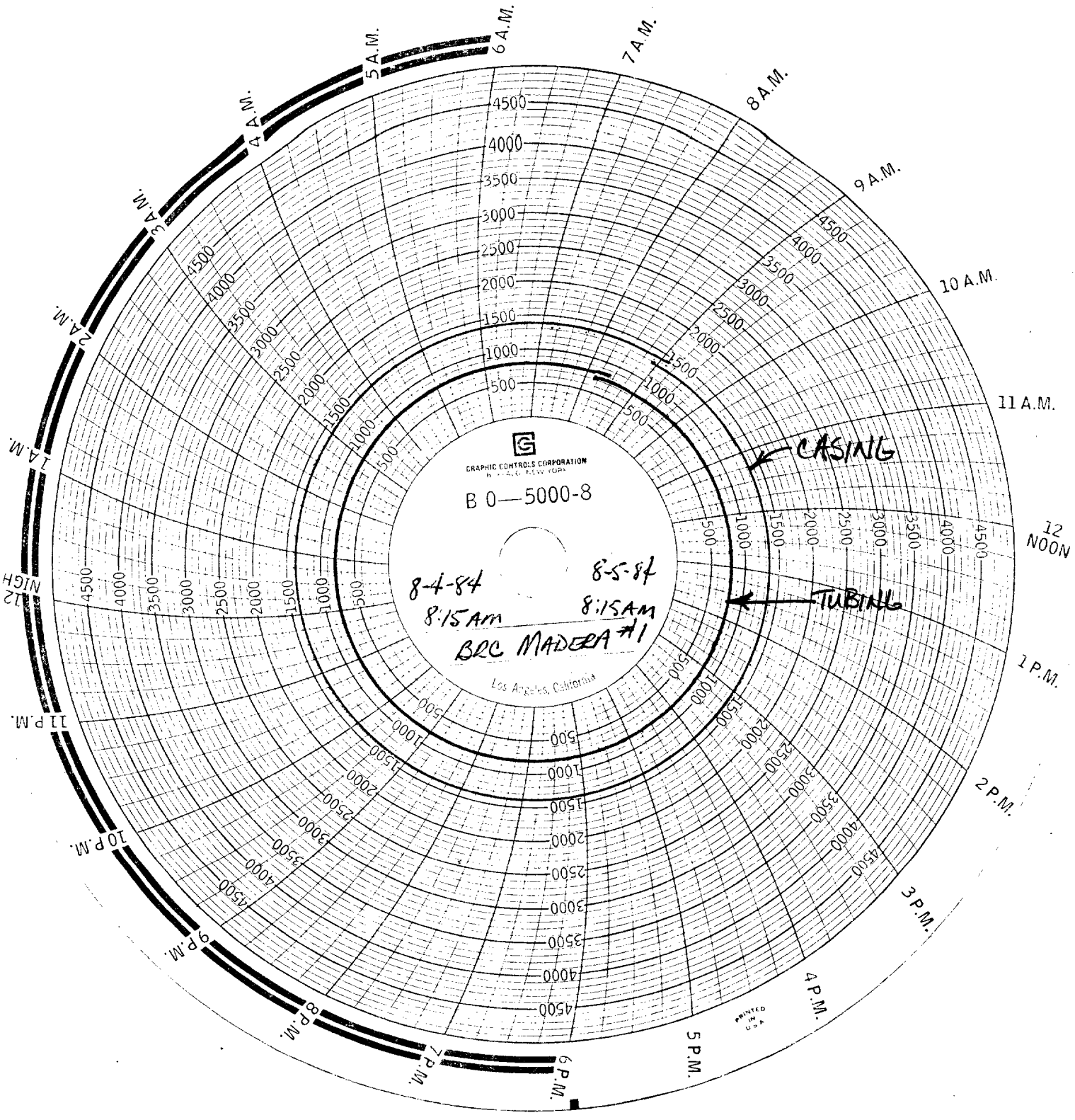
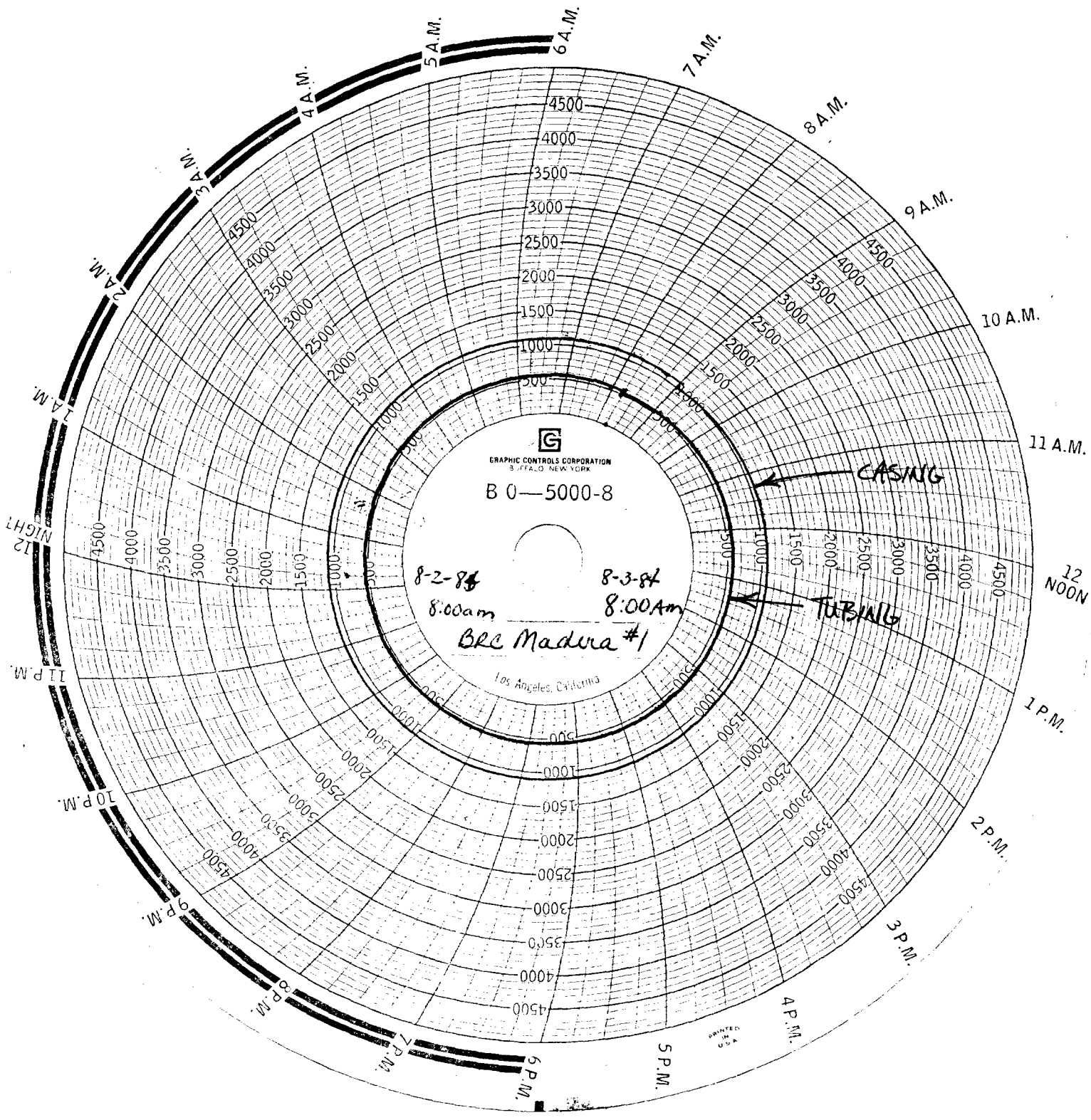


ALPHA 21 PRODUCTION CO.



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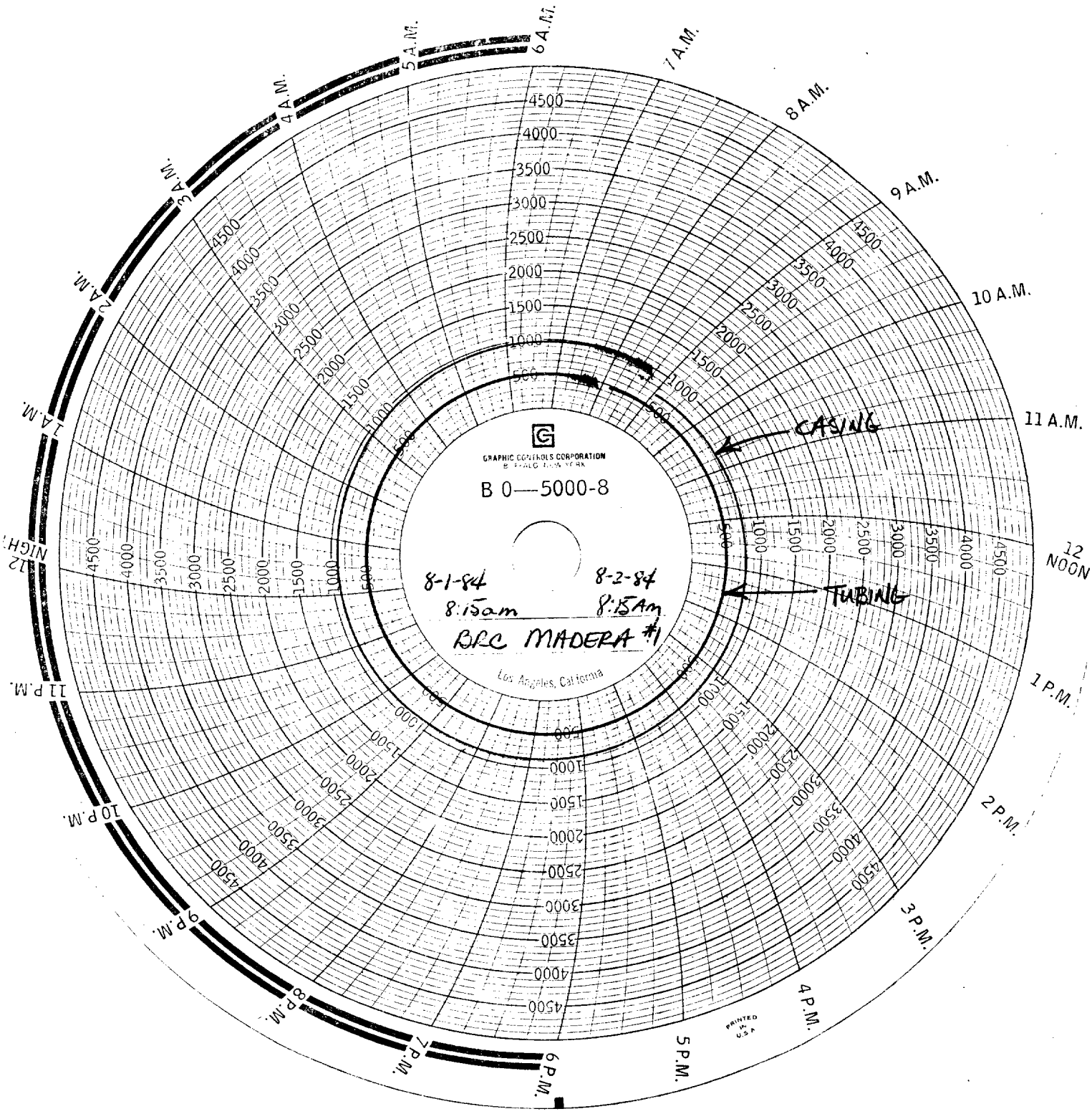
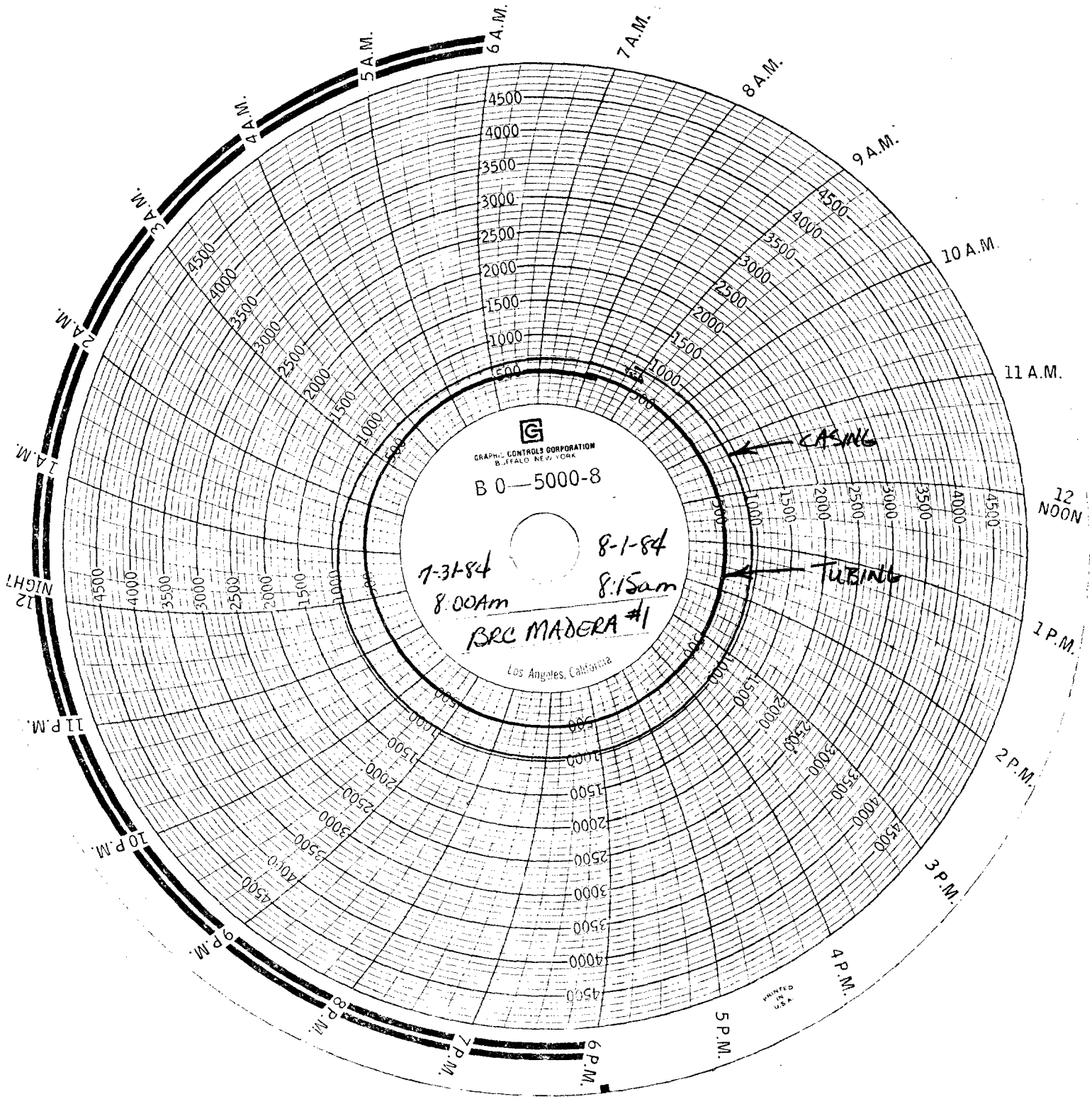


ALPHA 21 PRODUCTION CO.



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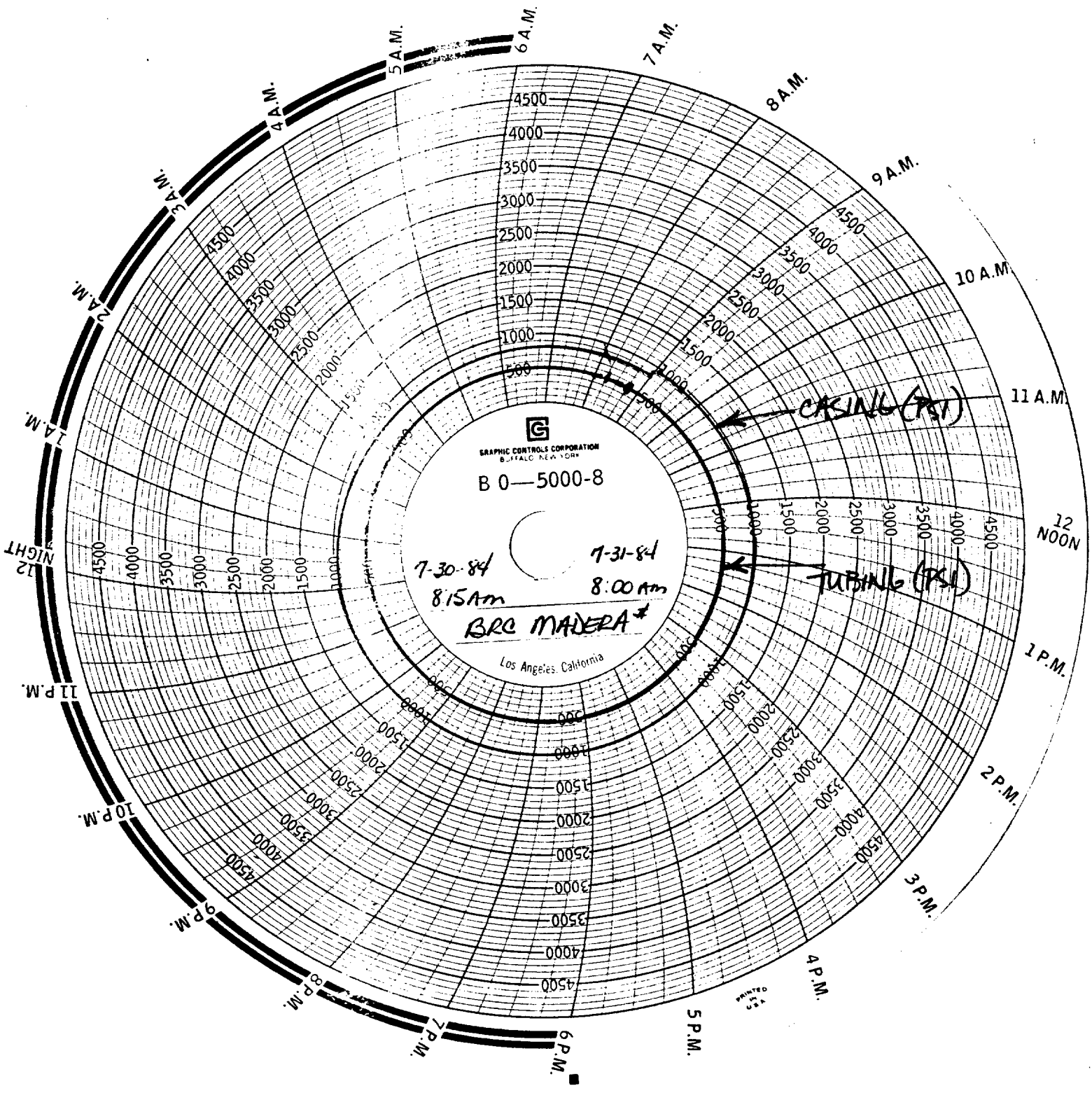
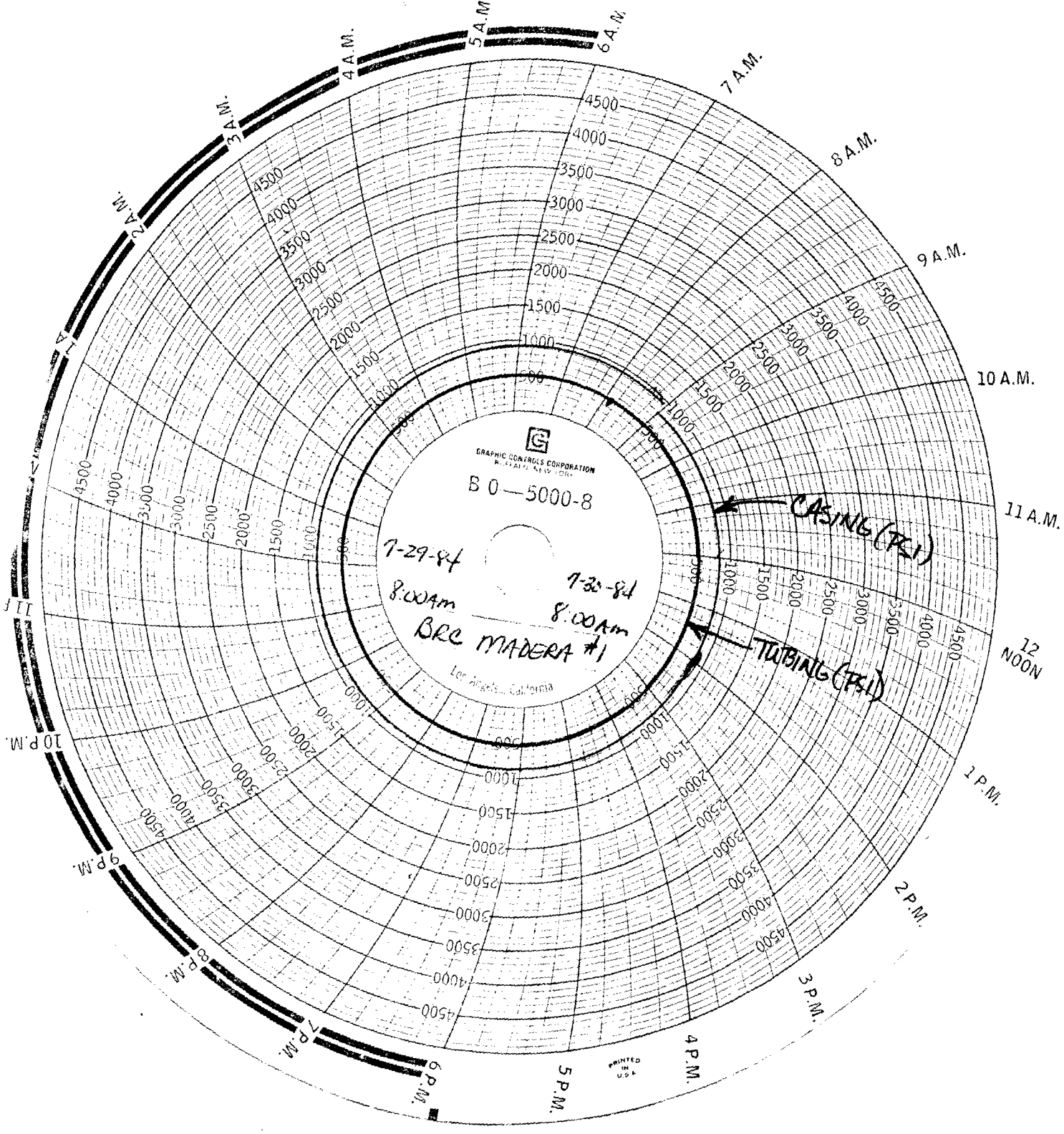
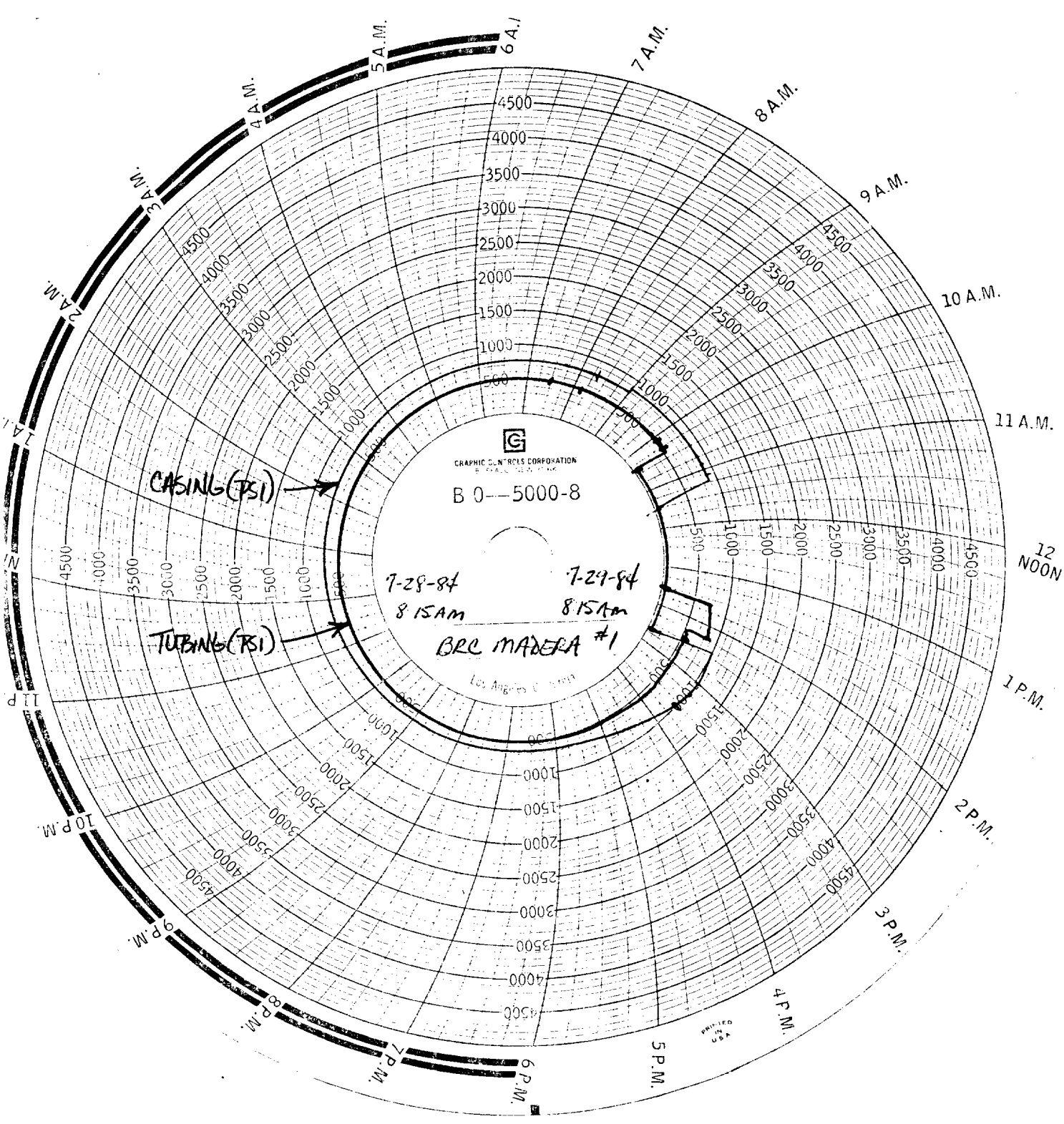


ALPHA 21 PRODUCTION CO.



ALPHA 21 PRODUCTION CO.



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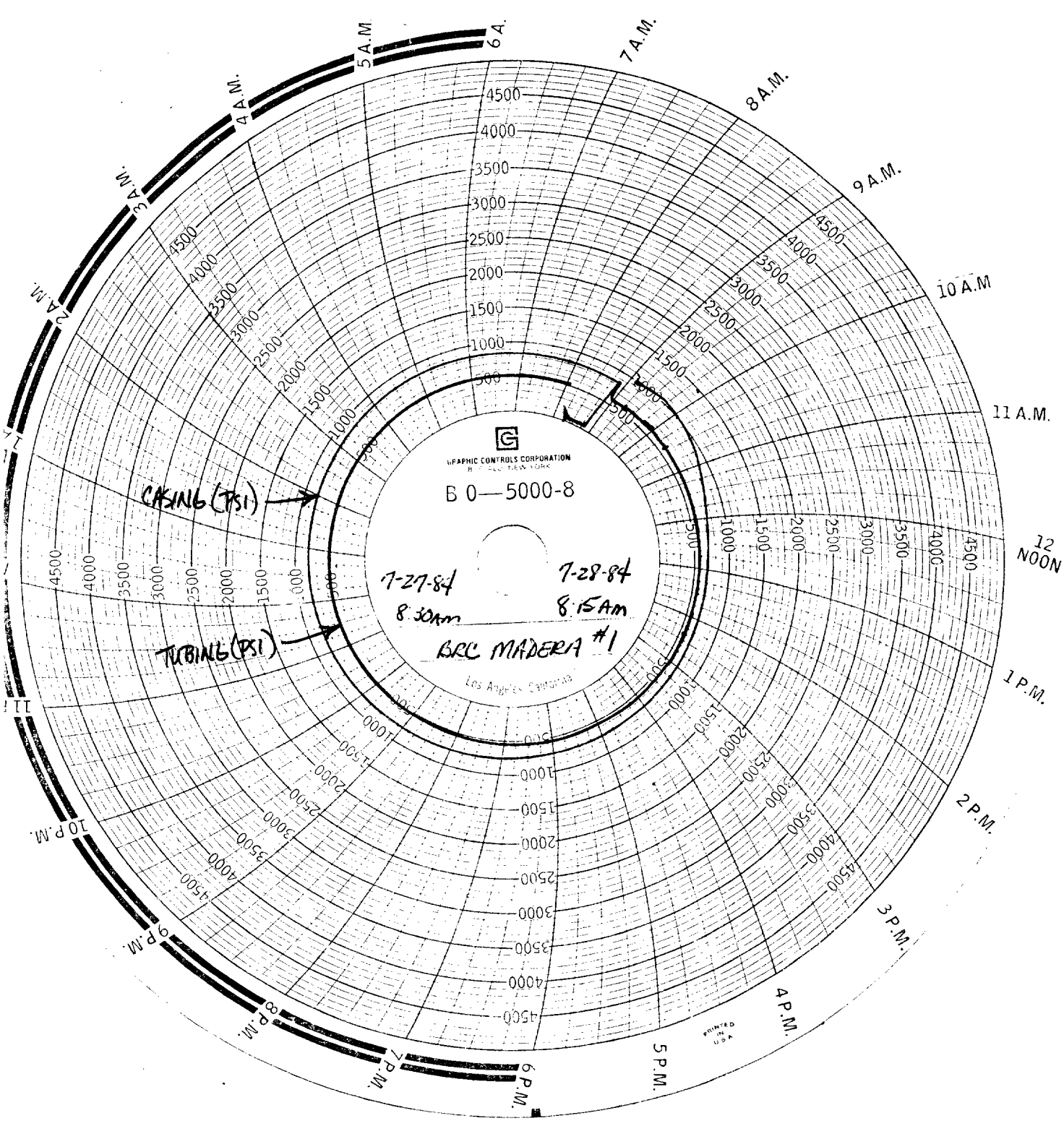
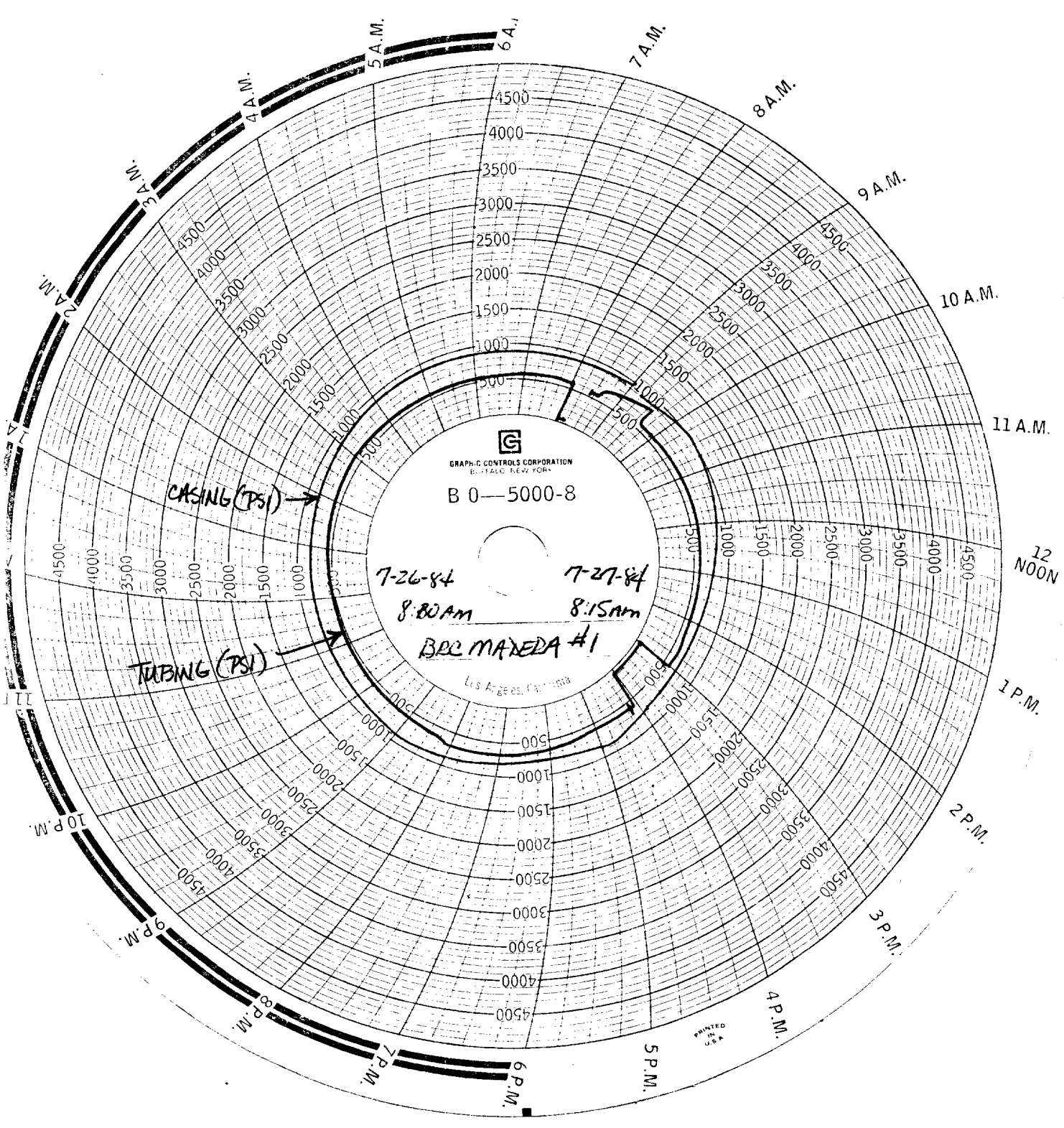


ALPHA 21 PRODUCTION 6.



ALPHA 21 PRODUCTION 6.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

September 7, 1984

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Mr. Robert H. Strand
Atwood, Malone, Mann
& Turner
Attorneys at Law
P. O. Drawer 700
Roswell, New Mexico 88201

Re: CASE NO. 8215
ORDER NO. R-7662

Applicant:

Alpha Twenty-One Production Company

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Yours very truly,

JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD x
Artesia OCD x
Aztec OCD

Other