

**NMOCD Case No. 11996**  
**July 28, 1998**

**EXHIBITS RELATING TO PICTURED CLIFFS PERFORMANCE**

**(7 PAGES)**

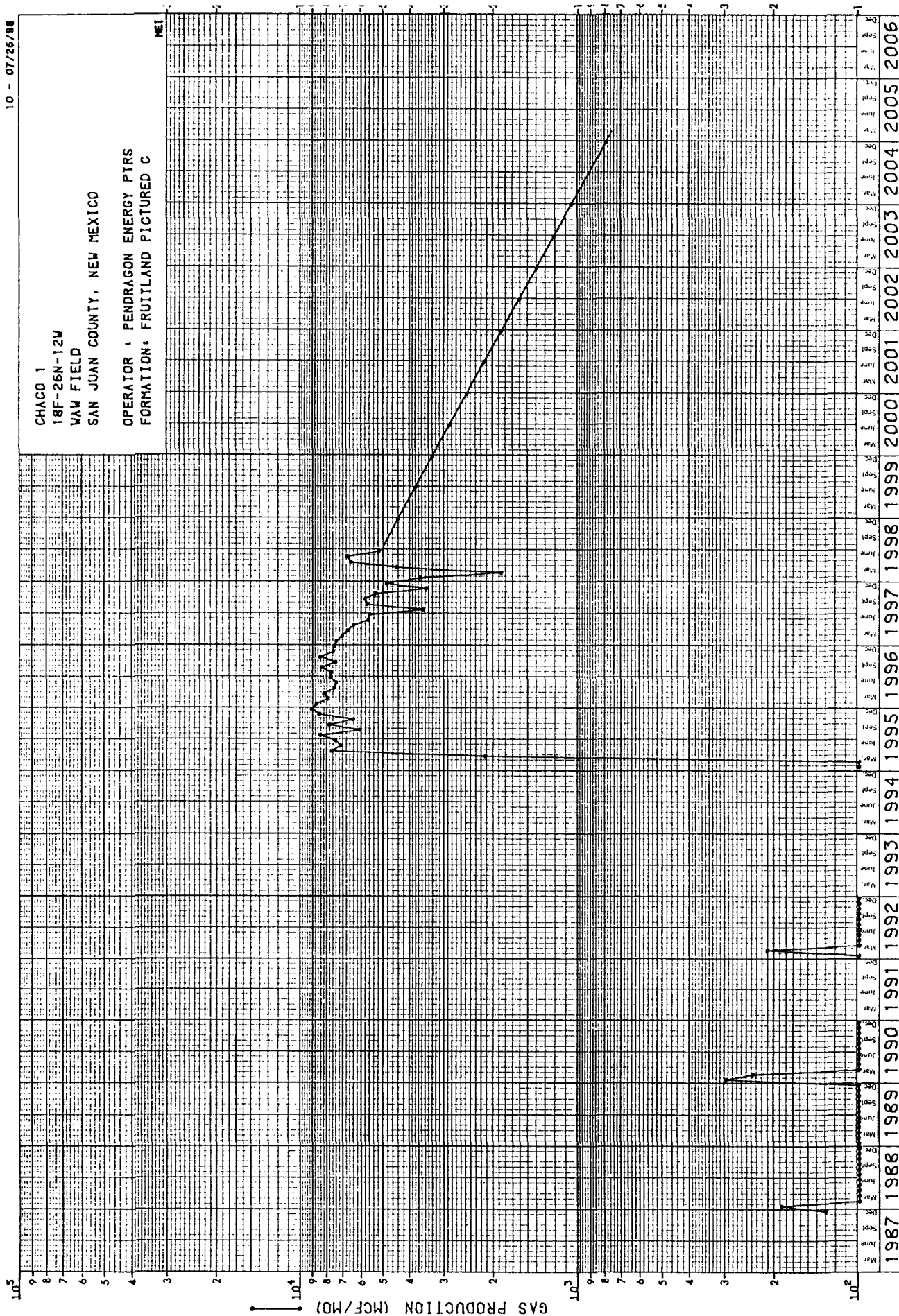
NMOCD CASE #11996  
PENDRAGON ENERGY  
EXHIBIT

**m-4**

CHACO 1  
18F-26N-12W  
WAW FIELD  
SAN JUAN COUNTY, NEW MEXICO

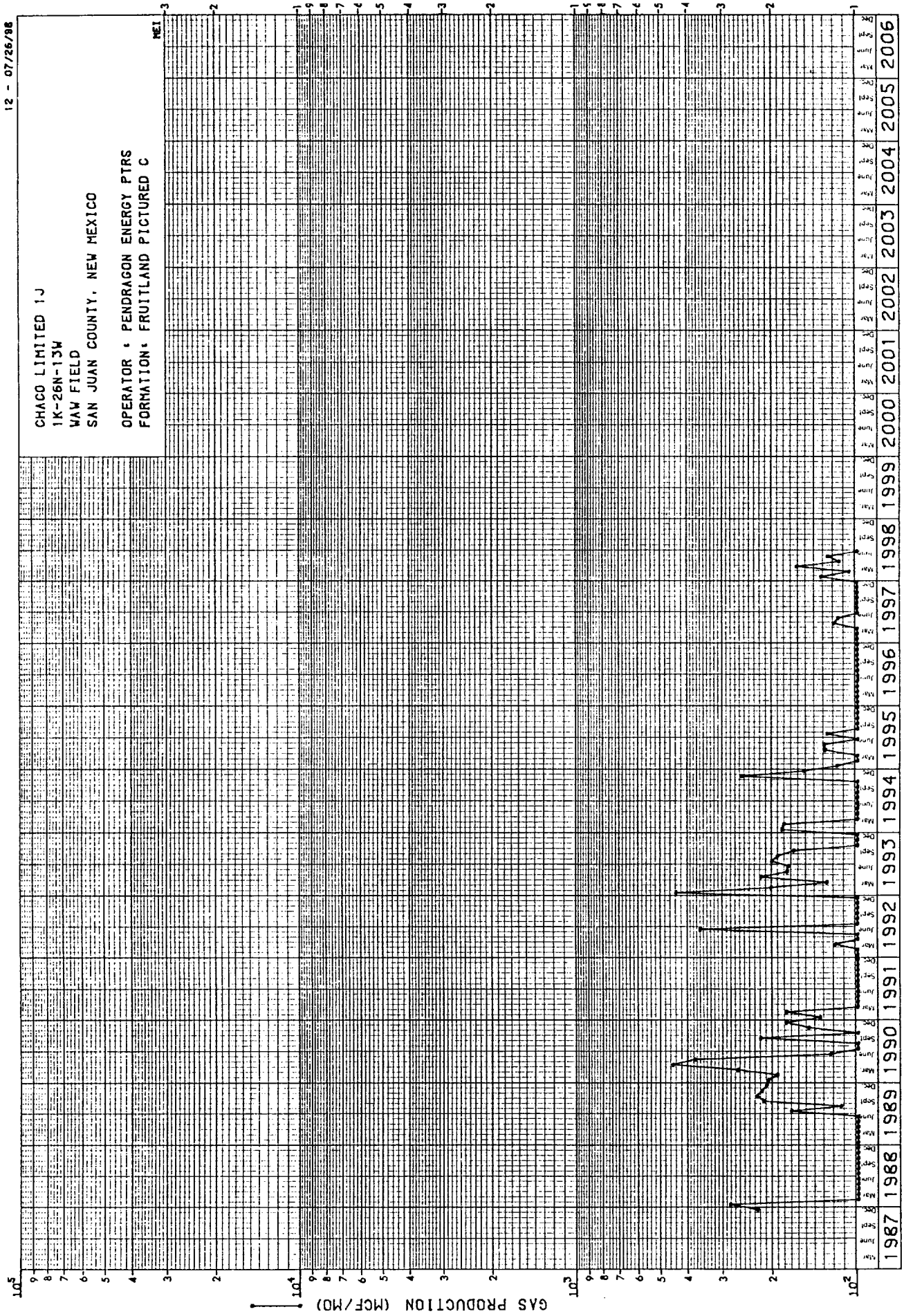
OPERATOR: PENDRAGON ENERGY PTRS  
FORMATION: FRUITLAND PICTURED C

NEI



CHACO LIMITED 1J  
1K-26N-13W  
WAW FIELD  
SAN JUAN COUNTY, NEW MEXICO

OPERATOR : PENDRAGON ENERGY PTRS  
FORMATION: FRUITLAND PICTURED C



CHACO LIMITED 2J

1B-26N-13W

WAW FIELD

SAN JUAN COUNTY, NEW MEXICO

OPERATOR : PENDRAGON ENERGY PTRS  
FORMATION: FRUITLAND PICTURED C

NEI

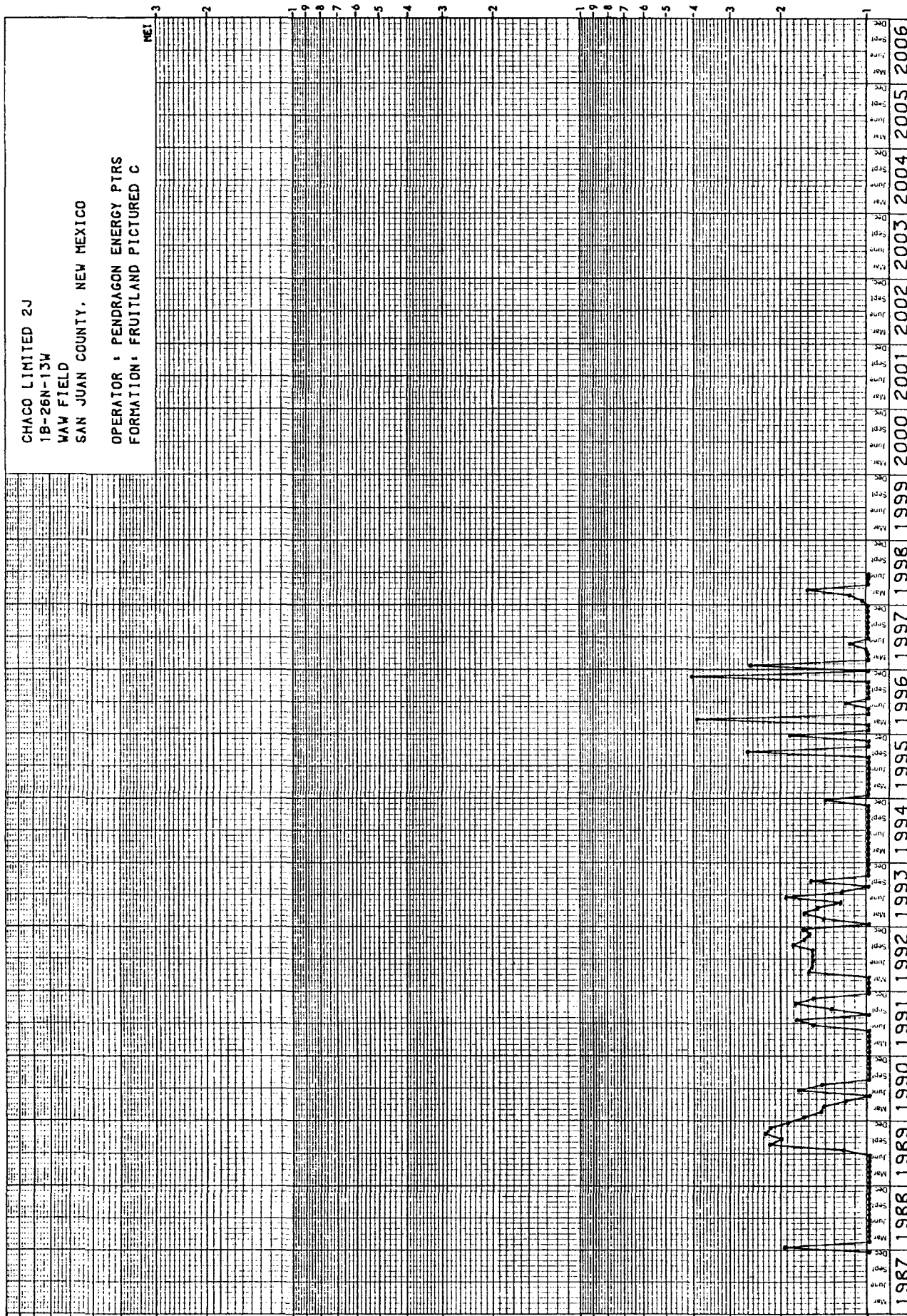
10<sup>5</sup>

GAS PRODUCTION (MCF/MO)

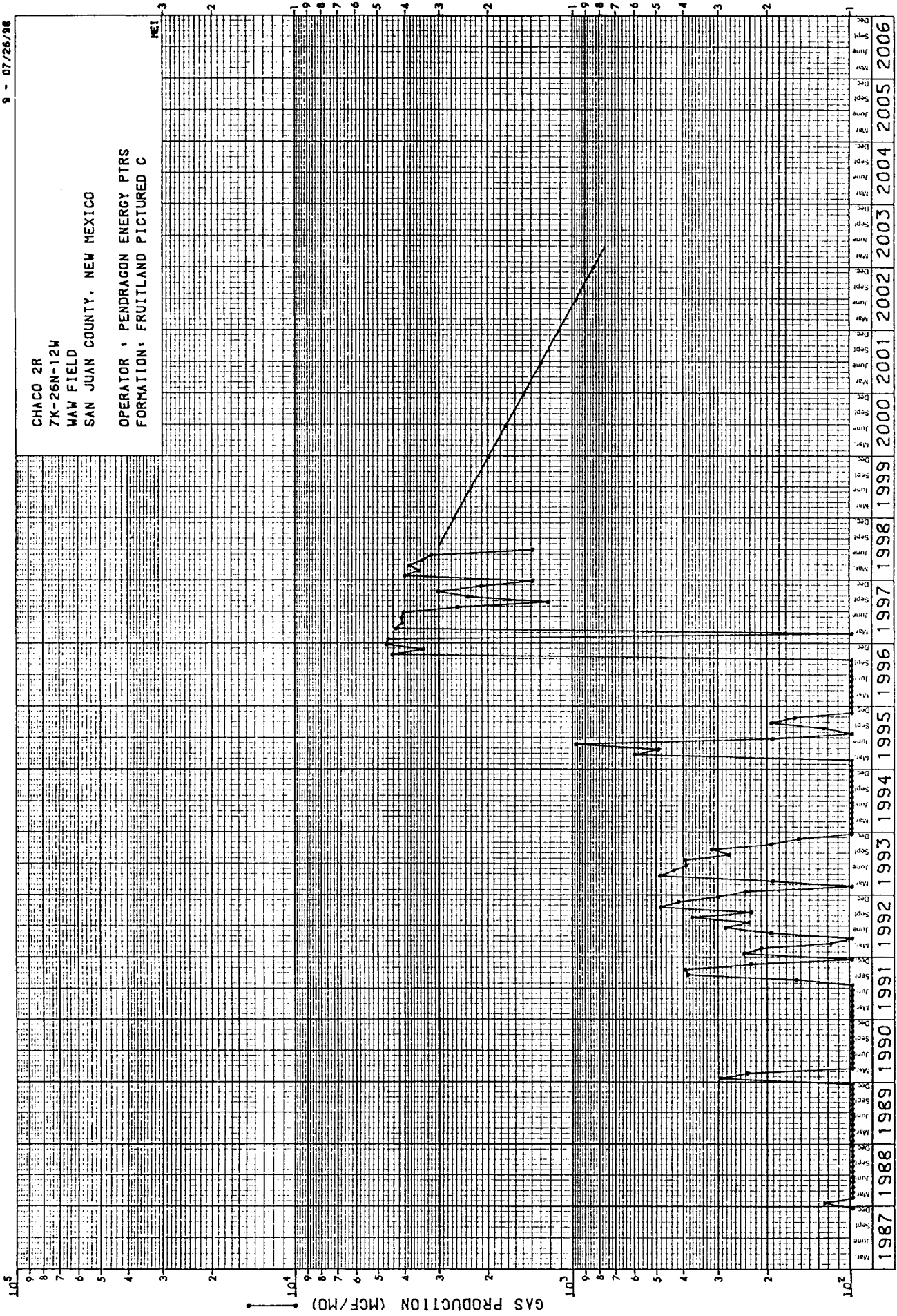
10<sup>3</sup>

10<sup>2</sup>

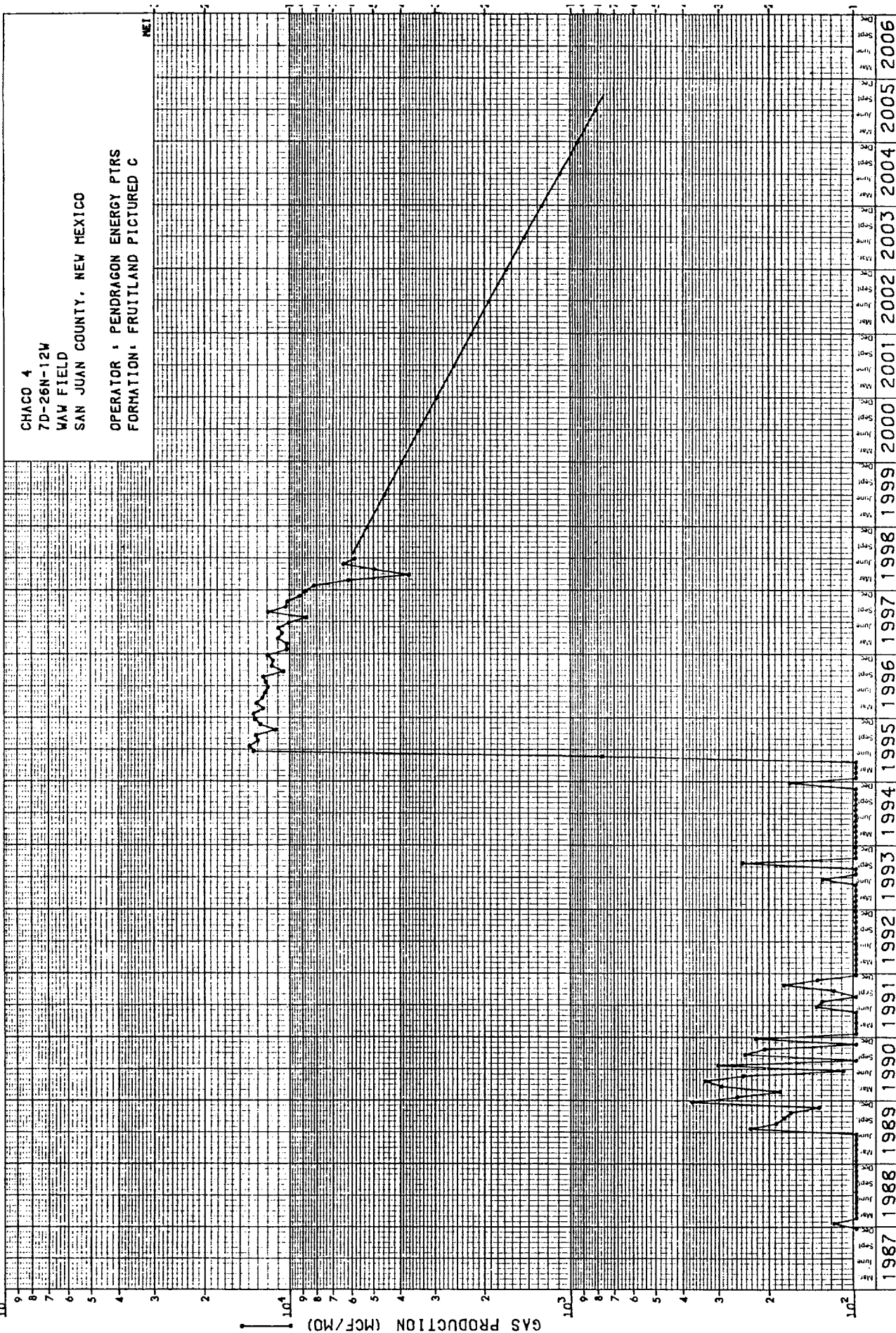
1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006



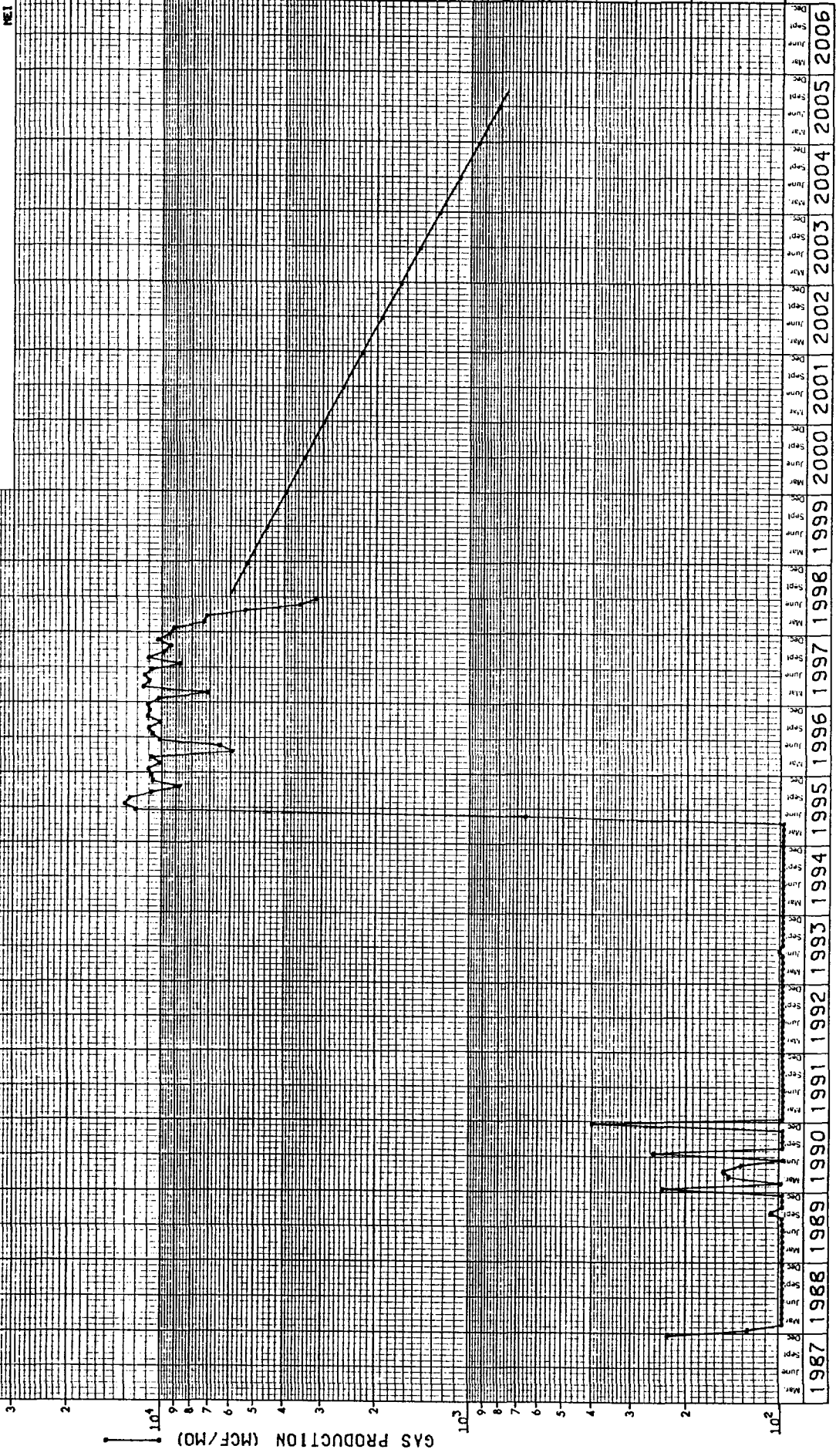
CHACO 2R  
7K-26N-12W  
WAV FIELD  
SAN JUAN COUNTY, NEW MEXICO  
OPERATOR : PENDRAGON ENERGY PTRS  
FORMATION: FRUITLAND PICTURED C



CHACO 4  
7D-26N-12W  
WAW FIELD  
SAN JUAN COUNTY, NEW MEXICO  
OPERATOR : PENDRAGON ENERGY PIRS  
FORMATION: FRUITLAND PICTURED C



CHACO S  
 1P-26N-13W  
 WAW FIELD  
 SAN JUAN COUNTY, NEW MEXICO  
 OPERATOR : PENDRAGON ENERGY PTIS  
 FORMATION: FRUITLAND PICTURED C



# PICTURED CLIFFS PERFORMANCE AND DECLINE CURVE ANALYSES

| WELL NAME | LOCATION                 | CUMULATIVE<br>GAS PROD.<br>(MCF) | REMAINING<br>RESERVES<br>(MCF) | ULTIMATE<br>RECOVERY<br>(MCF) | ESTIMATED AREA<br>PERF'D ZONES<br>(ACRES) | ESTIMATED AREA<br>ALL ZONES<br>(ACRES) |
|-----------|--------------------------|----------------------------------|--------------------------------|-------------------------------|-------------------------------------------|----------------------------------------|
| CHACO #1  | SE NW Section 18-26N-12W | 362,870                          | 177,924                        | 540,794                       | 236                                       | 154                                    |
| CHACO #1J | NE SW Section 1-26N-13W  | 16,819                           | -                              | 16,819                        | -                                         | -                                      |
| CHACO #2J | NW NE Section 1-26N-13W  | 41,416                           | -                              | 41,416                        | -                                         | -                                      |
| CHACO #2R | NE SW Section 7-26N-12W  | 117,609                          | 93,980                         | 211,589                       | -                                         | -                                      |
| CHACO #4  | NW N Section 7-26N-12W   | 596,872                          | 219,189                        | 816,061                       | 384                                       | 199                                    |
| CHACO #5  | SE SE Section 1-26N-13W  | 499,745                          | 219,189                        | 718,934                       | 351                                       | 222                                    |
| TOTALS    |                          | 1,635,331                        | 710,282                        | 2,345,613                     | 321                                       | 191                                    |

## COMMENTS:

DECLINE CURVE ANALYSES INDICATE THERE IS SUFFICIENT IN-PLACE GAS RESERVES TO JUSTIFY THEIR RESPECTIVE PERFORMANCE.