

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
DISTRICT II  
811 South First St., Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410  
DISTRICT IV  
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

Form C-107-A  
Revised August 1999

APPROVAL PROCESS:

\_\_\_ Administrative \_\_\_ Hearing

EXISTING WELLBORE

\_\_\_ YES \_\_\_X\_ NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator

Address

GRENIER

12M

H 13-31N-12W

SAN JUAN

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 18530 API NO. 30-045-XXXXX Federal X, State (and/or) Fee

The following facts are submitted in support of downhole commingling:  1. Pool Name and Pool Code	Upper Zone  BLANCO MESAVERDE - 72319	Intermediate Zone	Lower Zone  BASIN DAKOTA - 71599
2. Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION		WILL BE SUPPLIED UPON COMPLETION
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 525 psi (see attachment)  b. (Original) 915 psi (see attachment)		a. (Current) 866 psi (see attachment)  b. (Original) 2360 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1207		BTU 1177
7. Producing or Shut-In?	SHUT-IN		SHUT-IN
Production Marginal? (yes or no)	NO		YES
* If Shut-In, give date and oil/gas/water rates of last production  Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? \_\_\_X\_ Yes \_\_\_ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? \_\_\_ Yes \_\_\_ No

11. Will cross-flow occur? \_\_\_X\_ Yes \_\_\_ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. \_\_\_X\_ Yes \_\_\_ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? \_\_\_X\_ Yes \_\_\_ No

13. Will the value of production be decreased by commingling? \_\_\_ Yes \_\_\_X\_ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. \_\_\_X\_ Yes \_\_\_ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

16. ATTACHMENTS:

- \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- \* Production curve for each zone for at least one year. (If not available, attach explanation.)
- \* For zones with no production history, estimated production rates and supporting data.
- \* Data to support allocation method or formula.
- \* Notification list of working, overriding, and royalty interests for uncommon interest cases.
- \* Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

*Wayne Fletcher*

TITLE

PRODUCTION ENGINEER

DATE:

12/29/99

TYPE OR PRINT NAME

B. WAYNE FLETCHER

TELEPHONE NO. 505-326-9700

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code		*Pool Name	
*Property Code		*Property Name GRENIER			*Well Number 12M
*GRID No.		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			*Elevation 6201'

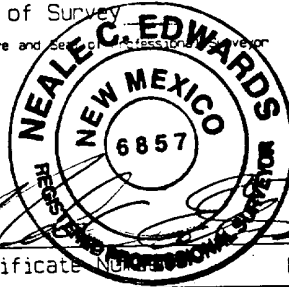
#### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County
H	13	31N	12W		1900	NORTH	665	EAST	SAN JUAN

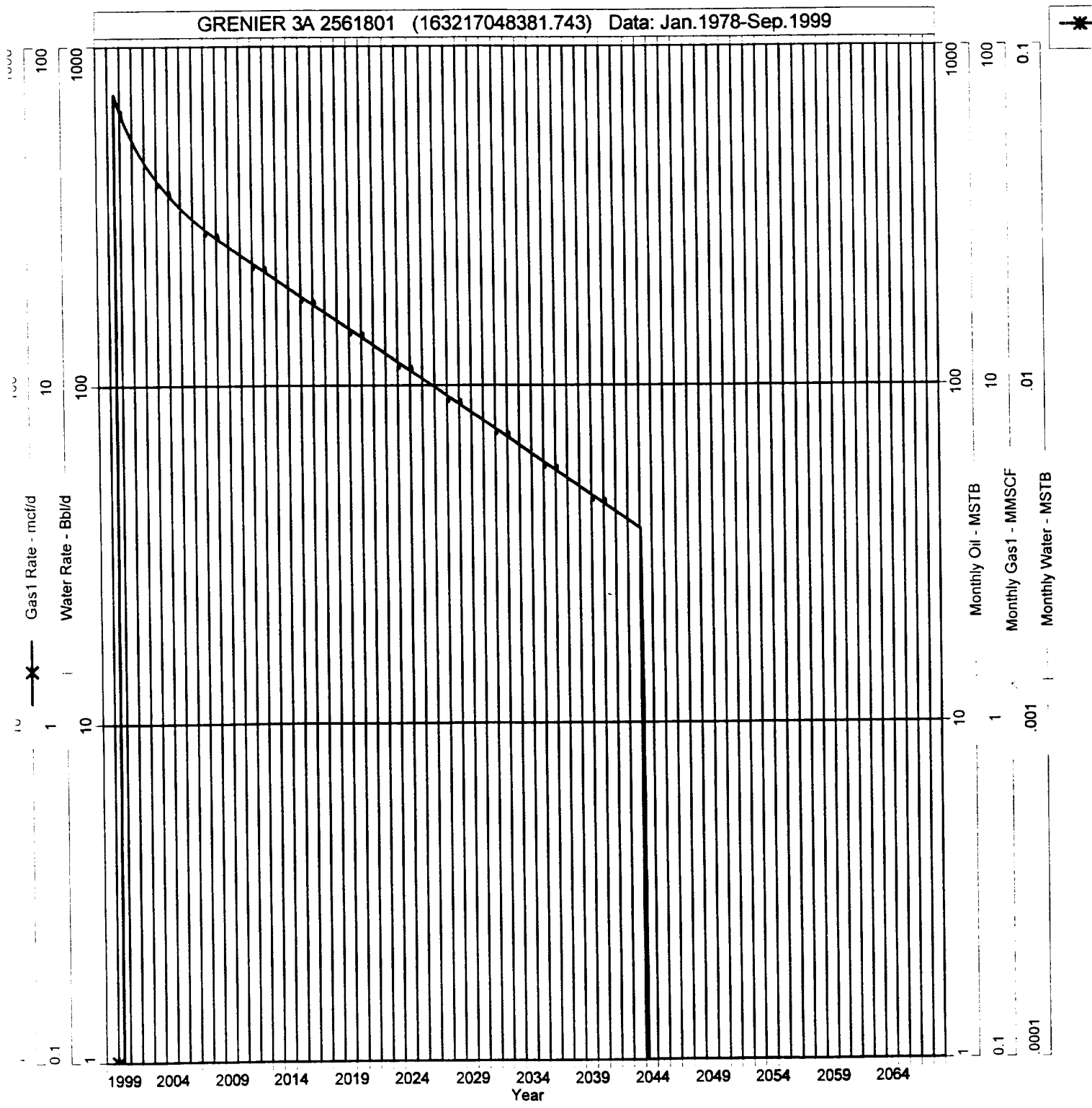
#### <sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 10	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.			

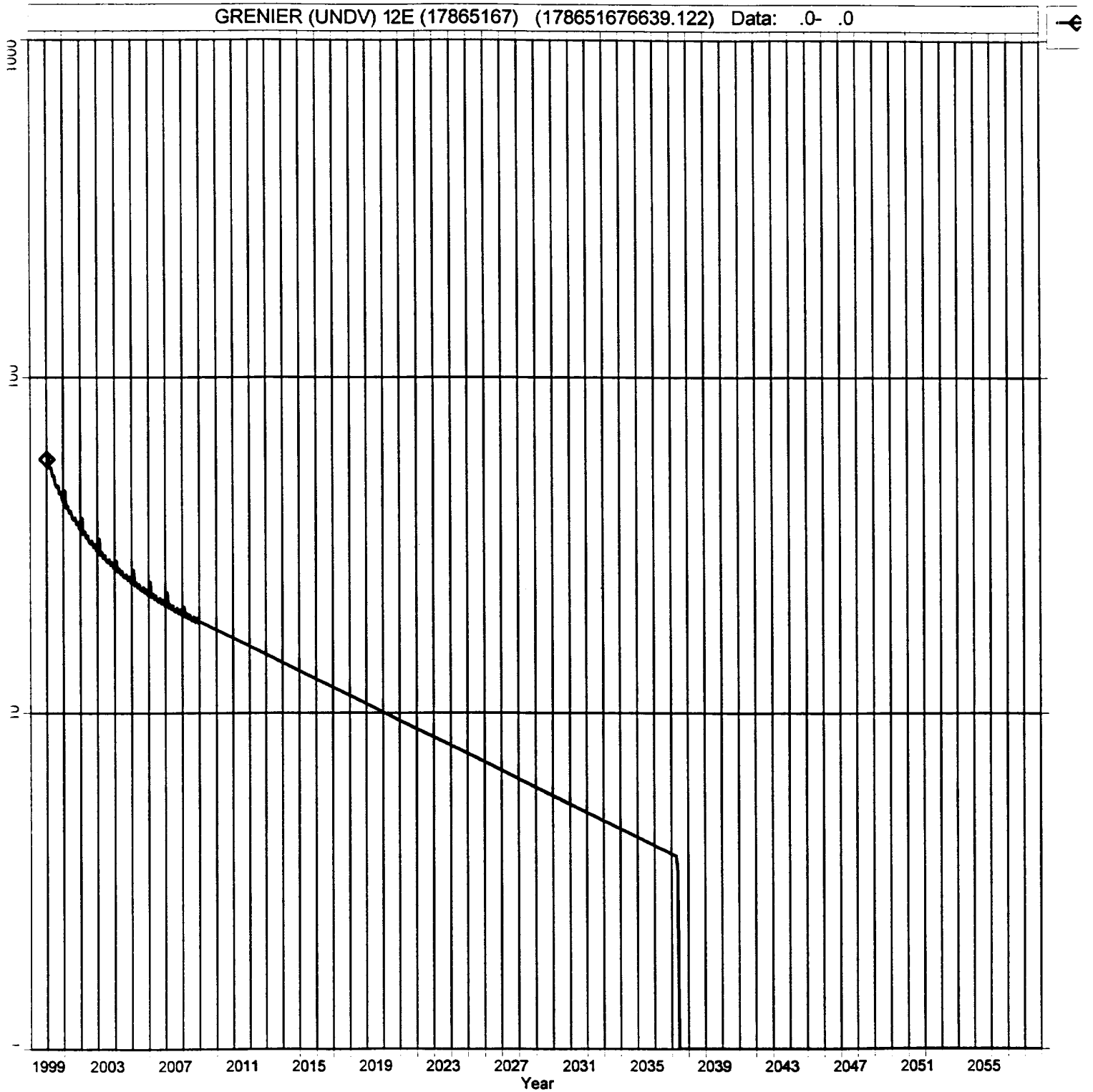
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>16</sup> LOT 4 2583.90' 2683.56' 2674.32'	4926.90'			LOT 1 1900'	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature _____ Printed Name _____ Title _____ Date _____  <sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  DECEMBER 1, 1999 Date of Survey _____ Signature and Seal of Surveyor  Certificate No. 6857
	LOT 3	LOT 2	LOT 5 665'	LOT 6 5204.10'	
13 - SF-078115					LOT 7 2581.26'

Grenier #12M  
Expected Production  
Mesaverde Formation



Grenier #12M  
Expected Production  
Dakota Formation



**Grenier #12M**  
Bottom Hole Pressures  
Flowing and Static BHP  
Cullender and Smith Method  
Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.695	GAS GRAVITY	0.695
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.26	%N2	0.27
%CO2	0.87	%CO2	2.07
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	5268	DEPTH (FT)	7137
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	459	SURFACE PRESSURE (PSIA)	726
BOTTOMHOLE PRESSURE (PSIA)	524.6	BOTTOMHOLE PRESSURE (PSIA)	866.4
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.695	GAS GRAVITY	0.695
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.26	%N2	0.27
%CO2	0.87	%CO2	2.07
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	5268	DEPTH (FT)	7137
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	794	SURFACE PRESSURE (PSIA)	1935
BOTTOMHOLE PRESSURE (PSIA)	915.0	BOTTOMHOLE PRESSURE (PSIA)	2359.8

Grenier #12M

Mesaverde Offset

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
GRENIER 3A	04/07/77	794
GRENIER 3A	04/02/78	620
GRENIER 3A	08/24/80	528
GRENIER 3A	07/24/84	510
GRENIER 3A	08/22/84	532
GRENIER 3A	07/16/86	513
GRENIER 3A	06/10/89	479
GRENIER 3A	05/15/91	447
GRENIER 3A	07/15/91	459

Grenier #12M

Dakota Offset

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
GRENIER 11	07/10/62	1,935
GRENIER 11	04/17/70	747
GRENIER 11	06/17/71	699
GRENIER 11	04/17/72	669
GRENIER 11	05/01/73	654
GRENIER 11	04/17/75	686
GRENIER 11	06/17/76	714
GRENIER 11	05/16/77	670
GRENIER 11	05/01/79	627
GRENIER 11	05/01/80	717
GRENIER 11	06/24/81	740
GRENIER 11	08/24/83	847
GRENIER 11	05/29/85	818
GRENIER 11	01/13/88	735
GRENIER 11	06/07/90	797
GRENIER 11	04/01/95	744
GRENIER 11	03/31/94	726

Grenier #12M  
Mesaverde / Dakota  
31N - 12W - 13

