

| | | | | |
|-----------------|------------------|-------------|--------------|----------|
| DATE IN 9/14/99 | SUSPENSE 10/4/99 | ENGINEER DC | LOGGED BY KV | TYPE DHC |
|-----------------|------------------|-------------|--------------|----------|

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2473

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

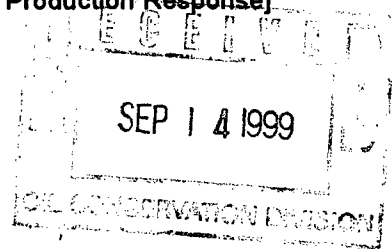
Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR



[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Deborah Moore (281) 293-1005
Print or Type Name

Signature

Regulatory Analyst
Title

Date

8/31/99

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 ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Conoco Inc. P.O. Box 2197 DU 3066, Houston, TX 77252

Operator Address

Storey C LS 6 A Sec. 22, T-28N, R-9W San Juan

Lease Well No. Unit Ltr. - Sec - Twp - Rge County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 005073 Property Code 22423 API NO. 30-045-07352 Federal XX State (and/or) Fee

| The following facts are submitted in support of downhole commingling: | Upper Zone | Intermediate Zone | Lower Zone |
|---|---|-------------------|--|
| 1. Pool Name and Pool Code | Aztec Pictured Cliffs 71280 | | Blanco Mesaverde 72319 |
| 2. Top and Bottom of Pay Section (Perforations) | 2450 - 2492 | | 4462 - 4828 |
| 3. Type of production (Oil or Gas) | Gas | | Gas |
| 4. Method of Production (Flowing or Artificial Lift) | Flowing | | Flowing |
| 5. Bottomhole Pressure | a. (Current) 259 | a. | a. 563 |
| Oil Zones - Artificial Lift: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original | b. (Original) 760 | b. | b. 1198 |
| 6. Oil Gravity (EAPI) or Gas BTU Content | 1128 | | 1331 |
| 7. Producing or Shut-In? | Producing | | Producing |
| Production Marginal? (yes or no) | NO | | NO |
| * If Shut-In, give date and oil/gas/water rates of last production | Date: Rates: | Date: Rates: | Date: Rates: |
| Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data | Date: April/May 99 rates Rates: 153 MCFD | Date: Rates: | Date: April/May 99 rates Rates: 22 MCFD |
| * If Producing, give date and oil/gas/water rates of recent test (within 60 days) | | | |
| 8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%) | Oil: 4 % Gas: 77 % | Oil: % Gas: % | Oil: 96 % Gas: 23 % |

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? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No

11. Will cross-flow occur? ☒ 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. ☒ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No

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

14. If this well is on, or communited 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. ☐ Yes ☐ No

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

16. ATTACHMENTS:

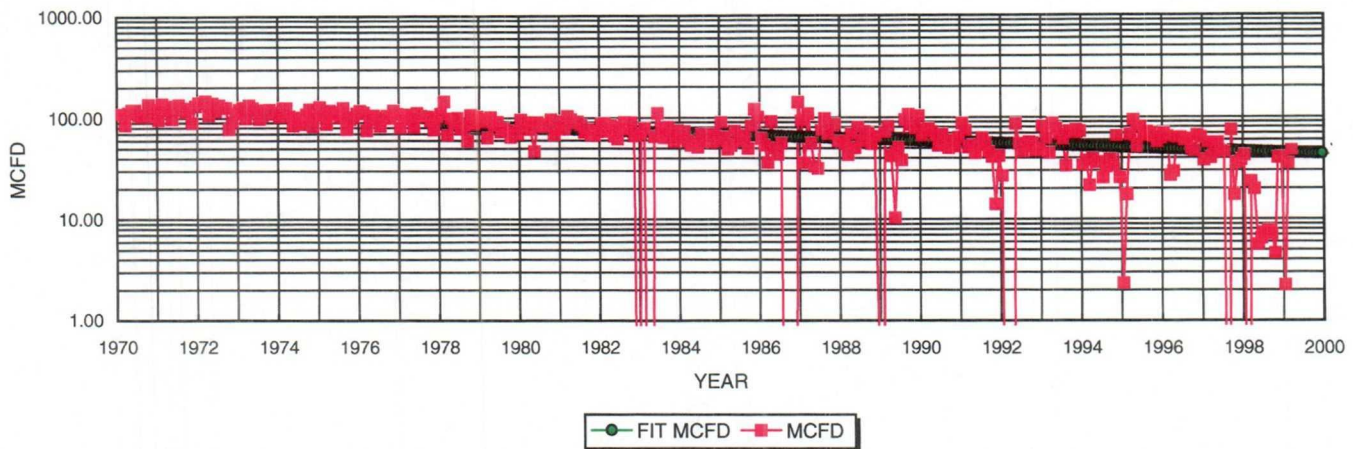
- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation 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 Deborah Moore TITLE Regulatory Analyst DATE 08/3199

TYPE OR PRINT NAME Deborah Moore TELEPHONE NO. (281) 293-1005

**STOREY CLS #6 MESAVERDE PRODUCTION
SECTION 22A-28N-09W**



MESAVERDE HISTORICAL DATA:

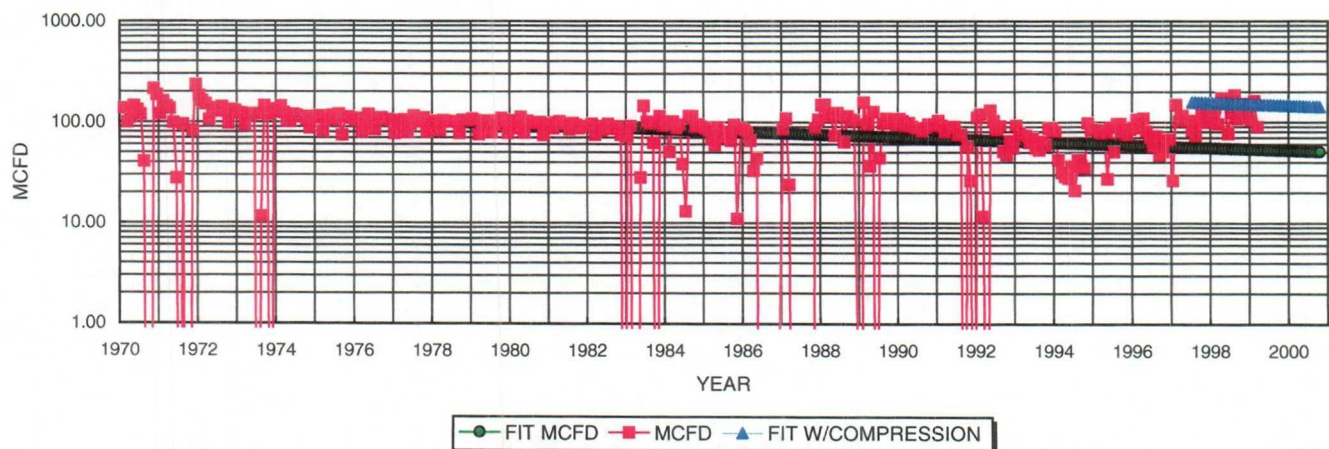
1ST PROD: 09/57

MESAVERDE PROJECTED DATA:

OIL CUM: 28.61 MBO
GAS CUM: 1466.0 MMCF
OIL YIELD: 0.0195 BBL/MCF

09/01/99 Qi: 45 MCFD
DECLINE RATE: 3.0% (EXPONENTIAL)

**STOREY CLS #6 PICTURED CLIFFS PRODUCTION
SECTION 22A-28N-09W**



PICTURED CLIFFS HISTORICAL DATA:

1ST PROD: 09/579

PICTURED CLIFFS PROJECTED DATA:

OIL CUM: 0.5 MBO
GAS CUM: 1513.8 MMCF
OIL YIELD: 0.0003 BBL/MCF

09/01/99 Qi: 152 MCFD
DECLINE RATE: 3.0% (EXPONENTIAL)

FIXED COMMINGLE ALLOCATION FACTORS:

API # 30-045-07352

| | GAS | OIL |
|-----------------|-----|-----|
| MESAVERDE | 23% | 95% |
| PICTURED CLIFFS | 77% | 5% |

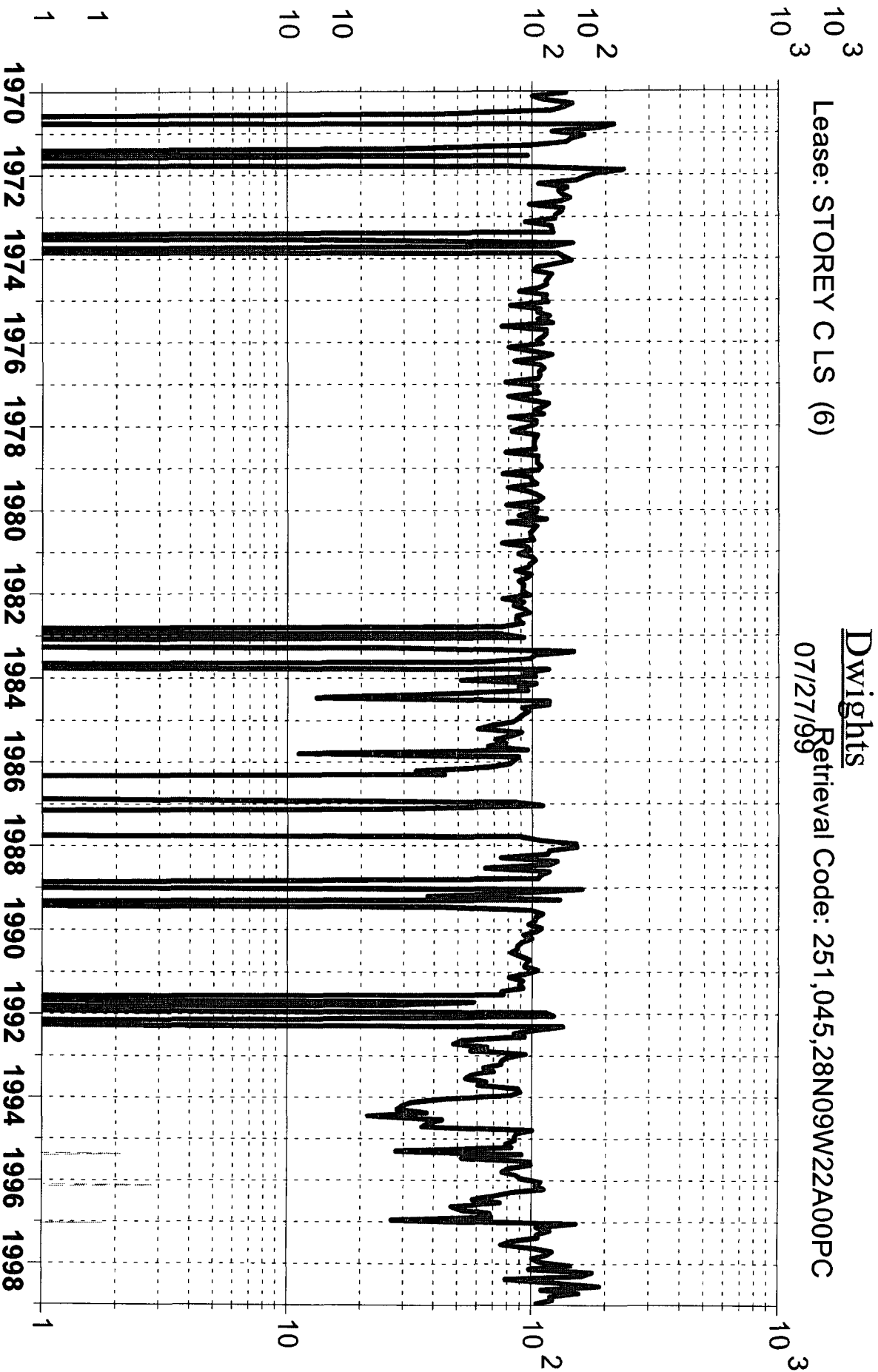
GAS ALLOCATION BASED ON PROJECTED 1999 RATES
OIL ALLOCATION BASED ON WEIGHTED CUM OIL YIELDS

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGYDATA

Dwights

Lease: STOREY C LS (6)

Retrieval Code: 251,045,28N09W22A00PC
07/27/99



Oil (bbl/day)

Water (bbl/day)

Operator: CONOCO INC

Location: 22A 28N 9W

F.P. Date: 09/57

Oil Cum: 461 bbl

Lower Perf: 2492 ft

Gas Cum: 1514 mmcf

Upper Perf: 2450 ft

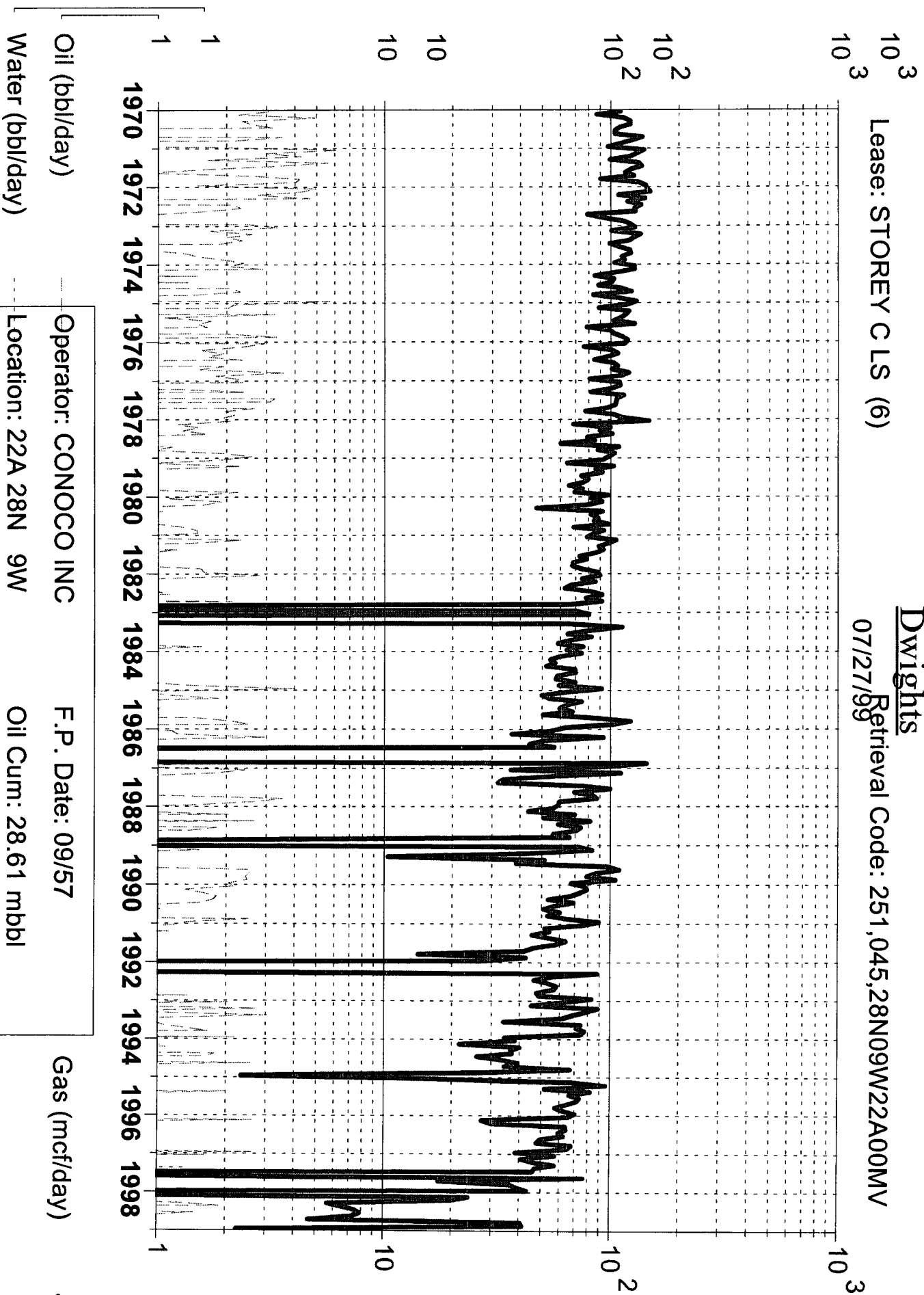
L.P. Date: 02/99

Gas (mcf/day)

Lease: STOREY C LS (6)

Dwights
07/27/99

Retrieval Code: 251,045,28N09W22A00MV



Oil (bbl/day)

Water (bbl/day)

Operator: CONOCO INC

Location: 22A 28N 9W

F.P. Date: 09/57

Oil Cum: 28.61 mbbl

Gas (mcf/day)

Lower Perf: 4828 ft

Gas Cum: 1466 mmcf

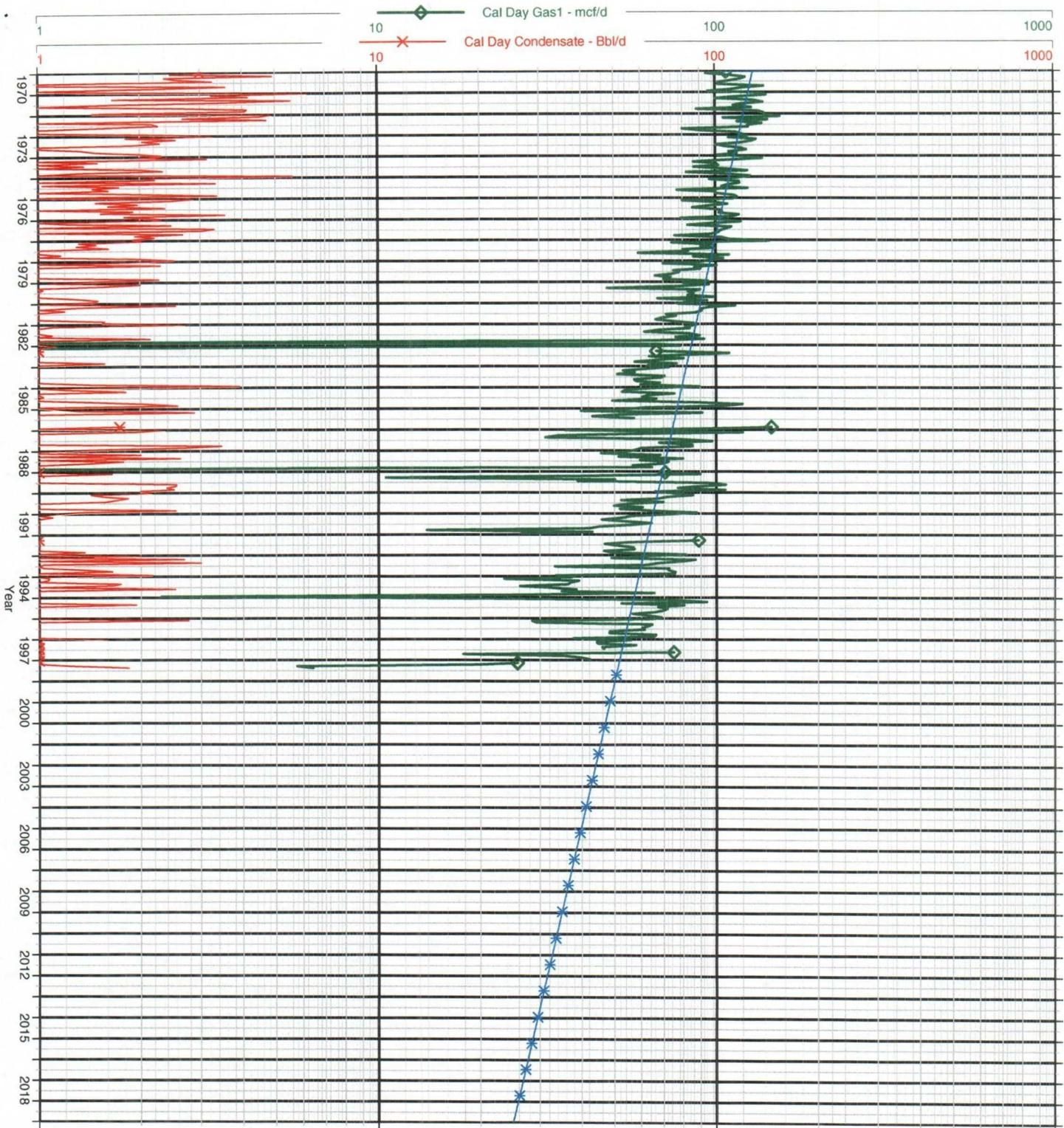
Upper Perf: 4462 ft

L.P. Date: 02/99

STOREY C L S 6 (251-045-28N09W22A00MV) Date: Jun.1957-May.1998
 Operator: AMOCO PRODUCTION CO
 Field: BLANCO (MESAVERDE) MV
 Zone: MESAVERDE
 Type: Gas
 Group: East Non 28-7

Cal Day Gas FC 1 (Rate-Time)
 qi: 129.86 mcf/d, Jan. 1970
 qf: 25 mcf/d, Dec. 2019
 di(Exp): 3.24157 CTD: 786,728 MMSCF
 RR: 287,208 MMSCF Tot: 1073,94 MMSCF

Production Cums
 Oil: 0 MSTB
 Gas: 786,728 MMSCF
 Water: 0.133 MSTB
 Cond: 12.163 MSTB



Pre 70 676,701
 <3,349>
 673,352 MCF
 16338
 <93>
 16245 BO

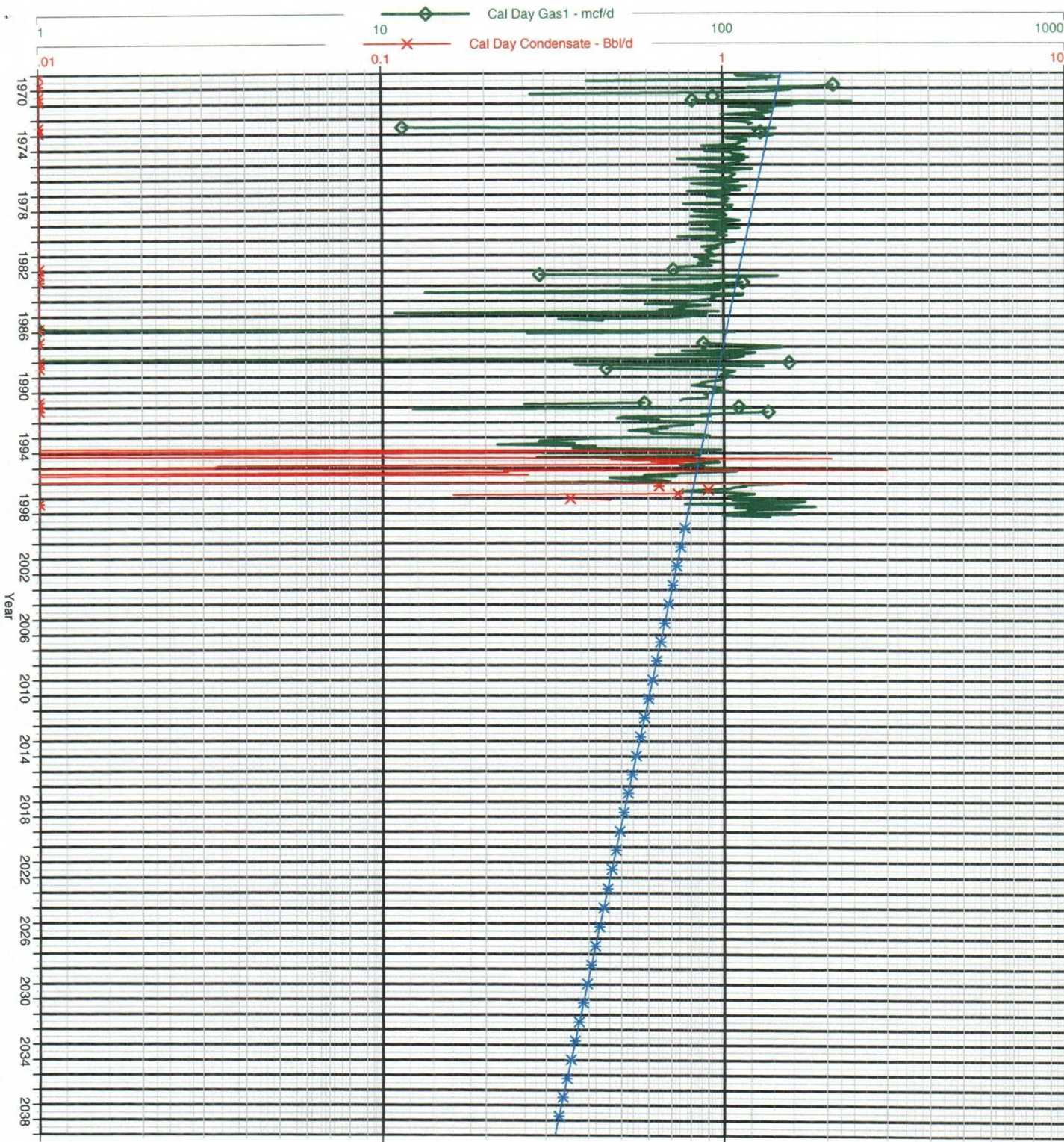
◆ Cal Day Gas1 - mcf/d
 Cum: 786,728 MMSCF
 ◆ Cal Day Gas FC 1 - mcf/d
 qi: 129.86 mcf/d, Jan. 1970
 qf: 25 mcf/d, Dec. 2019
 di(Exponential): 3.24157
 RR: 287,208 MMSCF
 EUR: 1073.94 MMSCF
 * Cal Day Condensate - Bbl/d
 Cum: 12.163 MSTB

STOREY C L S 6 (251-045-28N09W22A00FC) Data: Jun.1957-Mar.1999
 Operator: AMOCO PRODUCTION CO
 Field: AZTEC (PICTURED CLIFFS)
 Zone: PICTURED CLIFFS
 Type: Other
 Group: East Non 28-7

Cal Day Gas FC 1 (Rate-Time)
 qi: 147,983 mcf/d, Jan, 1970
 qt: 31,7925 mcf/d, Dec, 2039
 di(Exp): 2.173 CTD: 936,203 MMSCF
 RR: 765,406 MMSCF Tot: 1701.61 MMSCF

Production Curns
 Oil: 0 MSTB
 Gas: 936,203 MMSCF
 Water: 0 MSTB
 Cond: 0.461 MSTB

Cal Day Gas1 - mcf/d
 Cum: 936,203 MMSCF
 Cal Day Gas FC 1 - mcf/d
 qi: 147,983 mcf/d, Jan, 1970
 qt: 31,7925 mcf/d, Dec, 2039
 di(Exponential): 2.173
 RR: 765,406 MMSCF
 EUR: 1701.61 MMSCF
 Cal Day Condensate - Bbl/d
 Cum: 0.461 MSTB



Pre 70 586,005
 <4,165>
 581,840 mcf

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe. NM 87505

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|---|---|---|
| ¹ API Number 30-045-07352 | ² Pool Code 71280, 72319 | ³ Pool Name Aztec Pictured Cliffs, Blanco Mesaverde |
| ⁴ Property Code 22423 | ⁵ Property Name Storey C LS | ⁶ Well Number 6 |
| ⁷ OGRID No. 005073 | ⁸ Operator Name Conoco Inc. | ⁹ Elevation 6172 |

¹⁰ Surface Location

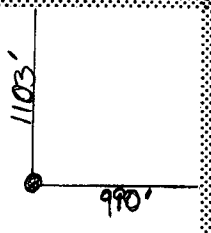
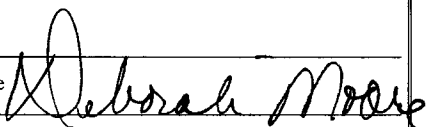
| | | | | | | | | | |
|--------------------|---------------|-----------------|-------------|---------|------------------------|---------------------------|-----------------------|------------------------|--------------------|
| UL or lot no. A | Section 22 | Township 28N | Range 9W | Lot Idn | Feet from the 1103' | North/South line North | Feet from the 990' | East/West line East | County San Juan |
|--------------------|---------------|-----------------|-------------|---------|------------------------|---------------------------|-----------------------|------------------------|--------------------|

¹¹ Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|

| | | | |
|--|------------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres 160/320 | ¹³ Joint or Infill Y | ¹⁴ Consolidation Code | ¹⁵ 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

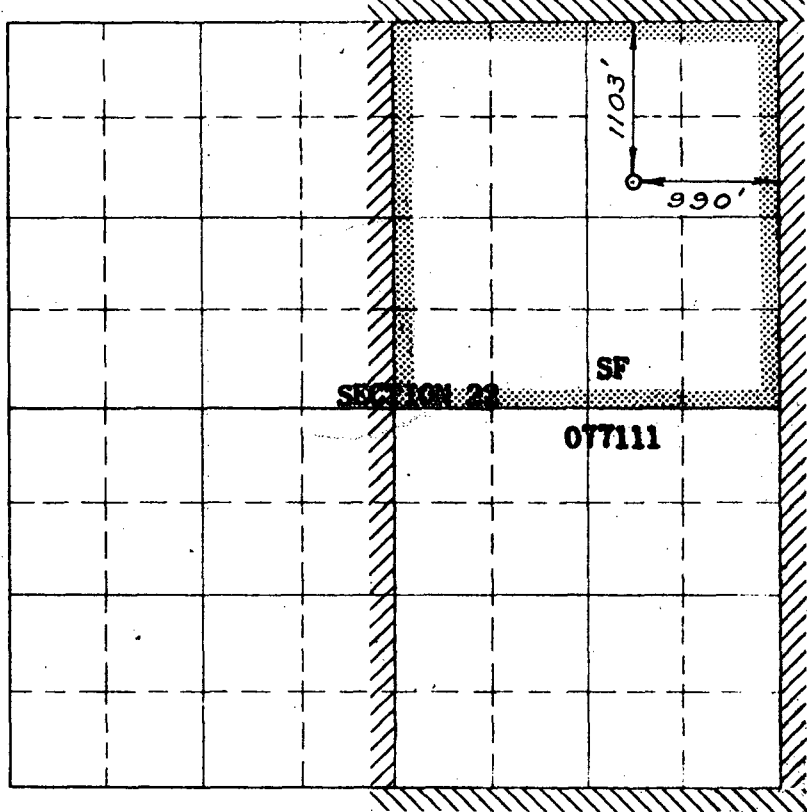
| | | | |
|---------------|---|--|--|
| ¹⁶ |  | ¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i> | |
| | | Signature  Printed Name Deborah Moore Title Regulatory Analyst Date 08/31/99 | |
| | | ¹⁸ SURVEYOR CERTIFICATION <i>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.</i> | |
| | | Date of Survey Signature and Seal of Professional Surveyer: Certificate Number | |

NEW MEXICO
OIL CONSERVATION COMMISSION

WELL LOCATION AND/OR GAS PRORATION PLAT

DATE APRIL 4, 1957
OPERATOR EL PASO NATURAL GAS COMPANY LEASE STOREY "C" SF 077111
WELL NO. 6 (PM) SECTION 22 T. 28 N RANGE 9 W NMPM
LOCATED 1103 FEET FROM NORTH LINE 990 FEET FROM EAST LINE
SAN JUAN COUNTY, NEW MEXICO WELL ELEVATION 6162
NAME OF PRODUCING FORMATION P.C. & M.V. P.C. AZTEC EMF. 160 AC. P.C.
M.V. BLANCO 320 AC. M.V.
(1919 PLAT)

Note: All distances must be in center line of section.



RECEIVED
APR 5 1957
U.S. DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOTE

This section of
form is to be used
for gas wells only

This is to certify that the above plat was prepared from
field notes of actual surveys made by me or under my
supervision and that the same are true and correct to the
best of my knowledge and belief.

Date Surveyed MARCH 5, 1957
E. O. Walker
Registered Professional Engineer and/or Land Surveyor



1. Is this well a Dual Comp.
Yes X No _____
2. If the answer to Question 1
is yes, are there any other dually
completed wells within the
dedicated acreage.
Yes _____ No X

Original Signed EWELL N. WALSH
Name _____

Position Petroleum Engineer

Representing El Paso Natural Gas

Address Box 997 - Farmington, N.M.

(Seal)

Farmington, New Mexico