



DHC 3/25/99

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MAR - 5 1999  
OIL CONSERVATION DIVISION

2251

March 2, 1999

Ms. Lori Wrotenbery  
New Mexico Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505

RE: Administrative Approval to Downhole Commingle  
Energen Resources Corporation  
Jicarilla 96 #1  
1650' FNL, 990' FEL, Sec. 11, T26N, R3W, N.M.P.M.  
Rio Arriba County, New Mexico

Dear Ms. Wrotenbery:

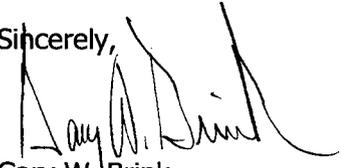
Energen Resources Corporation requests administrative approval for downhole commingling the Gavilan Pictured Cliffs and Blanco Mesaverde pools in the subject well. The well is currently producing as a Pictured Cliffs/Mesaverde dual completion. The Pictured Cliffs zone has experienced liquid loading problems and it is felt downhole commingling will eliminate excessive operational problems and allow the Mesaverde flow stream to aid in keeping the Pictured Cliffs zone unloaded and producing.

To comply with New Mexico Oil Conservation Rules, Energen Resources Corporation is submitting the following data for your approval of the proposed commingling:

1. For C107A – Application for Downhole Commingling
2. C102 – Location plat showing each spacing unit and dedicated acreage
3. Production curves for both the Pictured Cliffs and Mesaverde
4. Offset operator plat
5. Well location plat

In accordance to New Mexico Oil Conservation Division Rule 303C, all offset operators are being notified of this application by certified mail. As an offset operator, if you have no objection to this application, you do not have to respond to this notification.

If additional information is needed, please contact me.

Sincerely,  
  
Gary W. Brink  
Production Superintendent

GWB/mt

cc: NMOCD – Aztec, BLM – Albuquerque, Offset Operators

District I  
 PO Box 1980, Hobbs, NM 88241-1980  
 District II  
 811 S. 1st Street, Artesia, NM 88210-2834  
 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 Department

Form C-102  
 Revised October 18, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

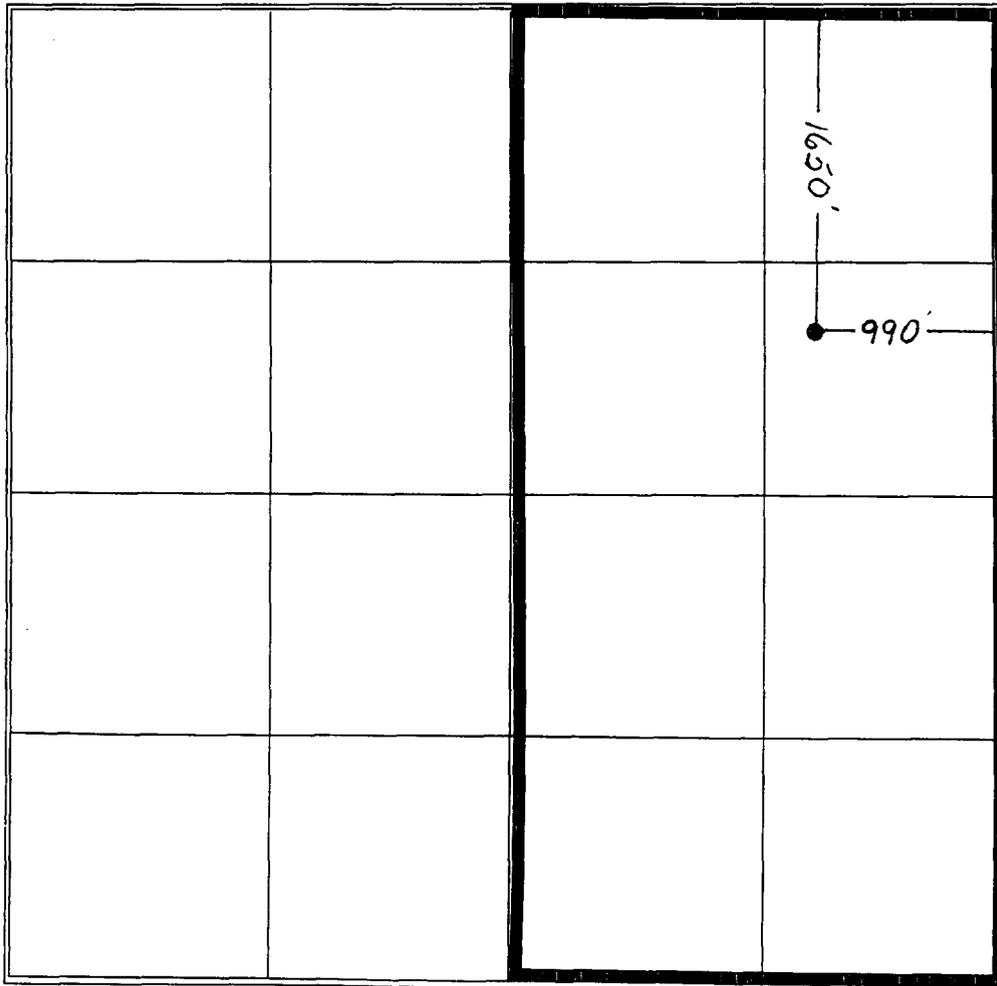
<sup>1</sup> API Number 30-039-06601		<sup>2</sup> Pool Code 77360/72319		<sup>3</sup> Pool Name Gavilan Pictured Cliffs/Blanco Mesaverde	
<sup>4</sup> Property Code 007165		<sup>5</sup> Property Name Jicarilla 96			<sup>6</sup> Well Number I
<sup>7</sup> OGRID No. 162928		<sup>8</sup> Operator Name ENERGEN RESOURCES CORPORATION			<sup>9</sup> Elevation 7062'

<sup>10</sup> Surface Location									
UL or lot no. H	Section 11	Township 26N	Range 3W	Lot. Idn	Feet from the 1650'	North/South Line N	Feet from the 990'	East/West line E	County Rio Arriba

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 160/320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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>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  
 Gary Brink  
 Printed Name  
 Production Superintendent  
 Title  
 3/2/99  
 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.

\_\_\_\_\_  
 Date of Survey

\_\_\_\_\_  
 Signature and Seal of Professional Surveyer:

Reissue of Original Survey

\_\_\_\_\_  
 Certificate Number

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107-A  
New 3-12-96

DISTRICT II  
811 S. First St., Artesia, NM 88210-2835

OIL CONSERVATION DIVISION

2040 S. Pacheco  
Santa Fe, New Mexico 875054-6429

APPROVAL PROCESS:  
 Administrative  Hearing

DISTRICT III  
1000 Rio Brazos Rd, Aztec, NM 87410-1693

EXISTING WELLBORE  
 YES  NO

APPLICATION FOR DOWNHOLE COMMINGLING

ENERGEN RESOURCES CORPORATION 2198 Bloomfield Highway, Farmington, NM 87401  
Operator Address

Jicarilla 96 1 H 11 26N 3W Rio Arriba  
Lease Well No. Unit Ltr. - Sec - Twp - Rge County

OGRID NO. 162928 Property Code 007165 API NO. 30-039-06601  
Spacing Unit Lease Types: (check 1 or more)  
Federal  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	Gavilan PC 77360		Blanco MV 72319
2. Top and Bottom of Pay Section (Perforations)	3585 - 3676		5386 - 5882
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) 414 Meas.	a.	a. 531 Meas.
	b. (Original) 1170 Calc.	b.	b. 2018 Calc.
6. Oil Gravity ( <sup>o</sup> API) or Gas BTU Content)	1222 BTU		1247 BTU
7. Producing or Shut-In?	Shut In		Producing
Production Marginal? (yes or no)	Yes		No
* 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: 5/96 Rates: .2/30/.5	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: 2/16/99 Rates: 1/180/0
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 17% Gas: 14%	Oil: % Gas: %	Oil: 83% Gas: 86%

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  
Have all offset operators been given written notice of the proposed downhole commingling?  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 in 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.  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 all offset operators.
  - \* 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 [Signature] TITLE Prod. Superintendent DATE 3/2/99

TYPE OR PRINT NAME Gary Brink TELEPHONE NO. ( 505 ) 325-6800

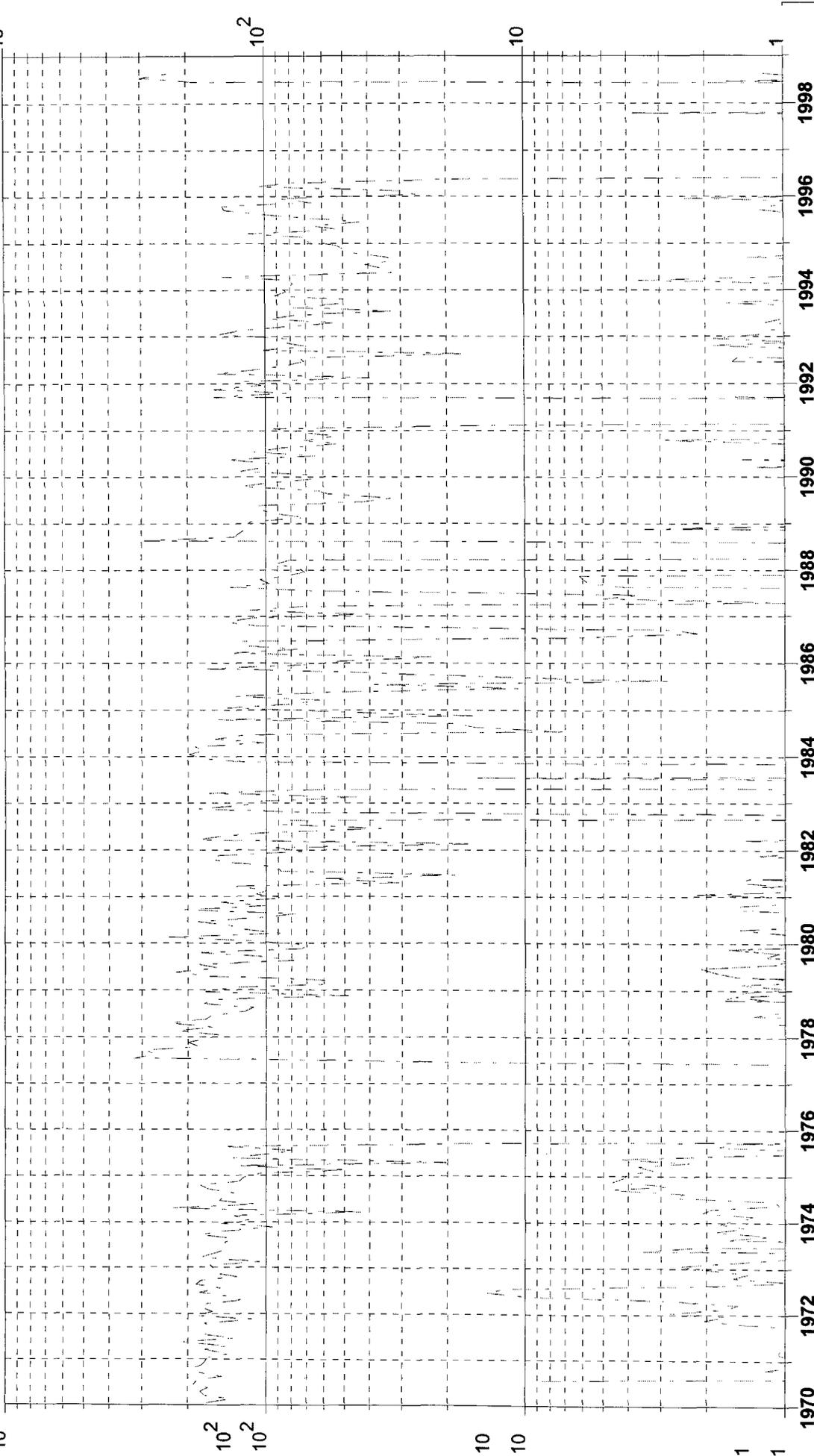
# Dwights

02/26/99

Retrieval Code: 251,039,26N03W11H00MV

Lease: JICARILLA 96 (1)

10<sup>3</sup> 10<sup>3</sup> 10<sup>2</sup> 10<sup>2</sup> 10 10 1 1



Oil (bbl/day)

F.P. Date: 03/57

County: RIO ARRIBA, NM

Oil Cum: 17.88 mbbl

Field: BLANCO (MESAVEERDE) MV

Gas Cum: 1864 mmcf

Reservoir: MESAVEERDE

Location: 11H 26N 3W

Operator: ENERGEN RESOURCES

Gas (mcf/day)

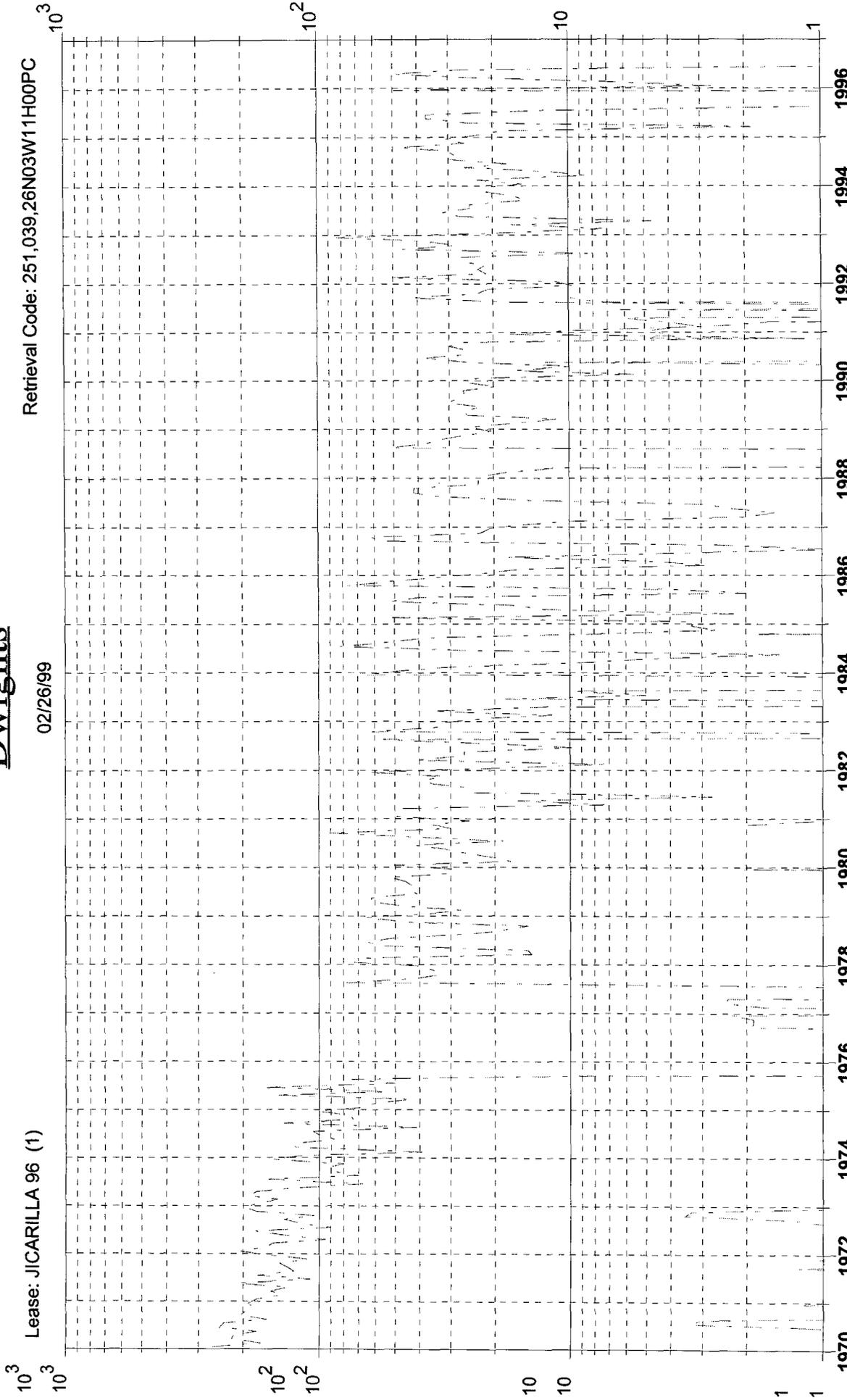
Water (bbl/day)

# Dwights

Lease: JICARILLA 96 (1)

02/26/99

Retrieval Code: 251,039,26N03W11H00PC



Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

F.P. Date: 03/57

County: RIO ARRIBA, NM

Field: GAVILAN (PICTURED CLIFFS) PC

Oil Cum: 7835 bbl

Reservoir: PICTURED CLIFFS

Gas Cum: 1408 mmcf

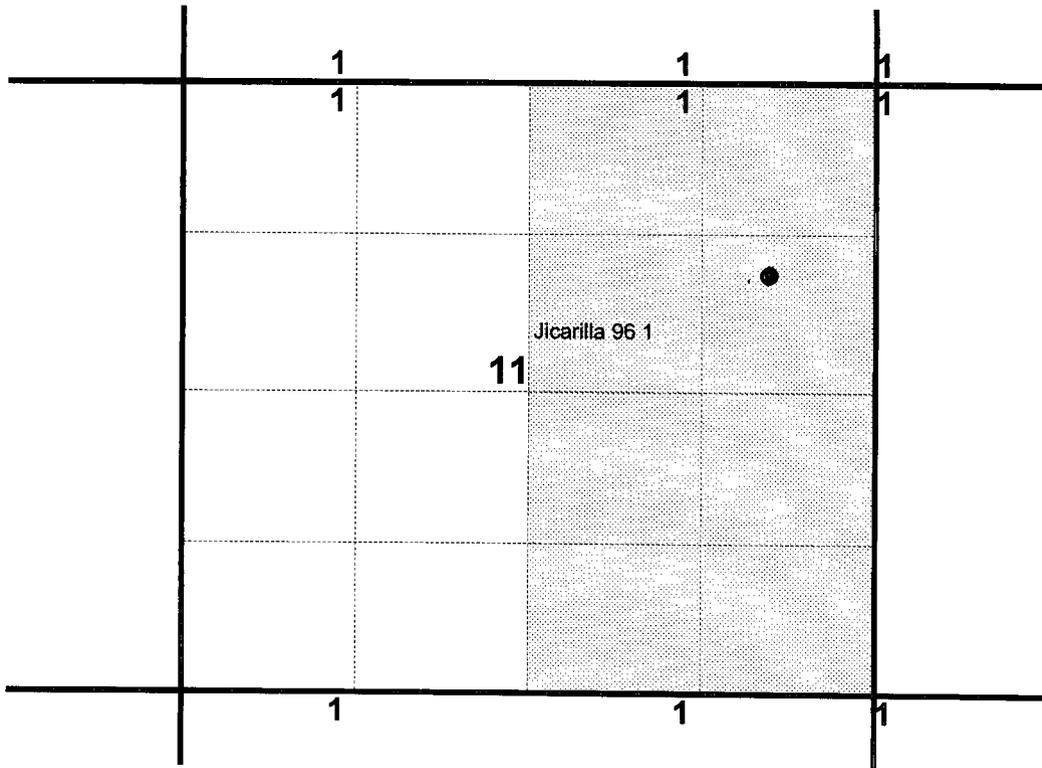
Operator: ENERGEN RESOURCES

Location: 11H 26N 3W

# ENERGEN RESOURCES

**Jicarilla 96 #1**  
**Offset Operator / Ownership Plat**  
Gavilan Pictured Cliffs/ Blanco Mesa Verde  
Downhole Commingling

Township 26 N, Range 3 W



1) Energen Resources

