

7/6/98	7/28/98	DC	KV	DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2047

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]

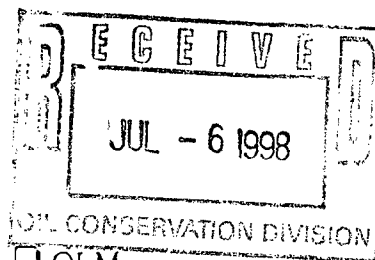
1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling
☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] or [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, I, ORRI) is common. I further verify that all applicable API Numbers are included. 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

GARY W. BRINK
 Name or Type Name

Gary W. Brink
 Signature

Production Supt.
 Title

7/1/98
 Date



TAURUS EXPLORATION, INC.
2198 Bloomfield Highway
Farmington, New Mexico 87401
Telephone (505) 325-6800

July 1, 1998

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

RE: Administrative Approval to Downhole Commingle
Taurus Exploration U.S.A., Inc.
Jicarilla 95 #6
990' FSL, 990' FWL, Sec. 36, T27N R3W, NMPM
Rio Arriba County, New Mexico

Dear Ms. Wrotenbery:

Taurus Exploration U.S.A., Inc. requests administrative approval for downhole commingling the Gavilan Pictured Cliffs and Blanco Mesa Verde pools in the subject well. The well is currently producing as a Pictured Cliffs/Mesa Verde dual completion. Additional potential has been identified in the Upper Mesa Verde/Lewis Shale in this wellbore and it is planned to add this pay to the Mesa Verde flowstream. Since the Pictured Cliffs zone has experienced liquid loading problems, it is felt downhole commingling would improve the overall producing efficiency of the well. It is intended to add the additional pay and downhole commingle at the same time.

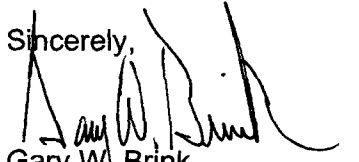
To comply with New Mexico Oil Conservation Rule, Taurus Exploration U.S.A., Inc. is submitting the following data for your approval of the proposed commingling.

1. For C-107A - Application for Downhole Commingling
2. C-102 - Location plat showing each spacing unit and dedicated acreage
3. Production curves for both the Pictured Cliffs and Mesa Verde
4. Offset operator plat
5. Well location plat
6. Allocation method

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/df
cc: NMOCD - Aztec, BLM - Albuquerque, Offset operators

DISTRICT I

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

DISTRICT II

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

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 875054-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Taurus Exploration U.S.A., Inc.

2198 Bloomfield Highway, Farmington, New Mexico

Operator

Address

Jicarilla 95

#6

M

Sec. 36 T27N

R3W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

OGRID NO. 162928

Property Code 007164

API NO. 30-039-06790

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)	3712-3791		5518-6008
3. Type of production (Oil or Gas)	gas		gas
4. Method of Production (Flowing or Artificial Lift)	flowing		flowing
5. Bottomhole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	526 calc.		286 calc.
Gas & Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	1075 calc.		1899 calc.
6. Oil Gravity (^o API) or Gas BTU Content)	1215 BTU		1214 BTU
7. Producing or Shut-In?	producing		producing
Production Marginal? (yes or no)	yes		no
* If Shut-In, give date and oil/gas/water rates of last production	Date:	Date:	Date:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Rates:	Rates:	Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 5/8/98	Date:	Date: 6/2/98
	Rates: 0/35/.50	Rates:	Rates: .50/154/0
8. Fixed Percentage Allocation Formula - % for each zone	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %
	See Attached Allocation Method		

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 ☐ No11. Will cross-flow occur? ☐ Yes ☒ NoIf 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

TITLE Prod. Superintendent

DATE 7/1/98

TYPE OR PRINT NAME Gary W. Brink

TELEPHONE NO. (505) 325-6800

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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

☒ AMENDED REPORT

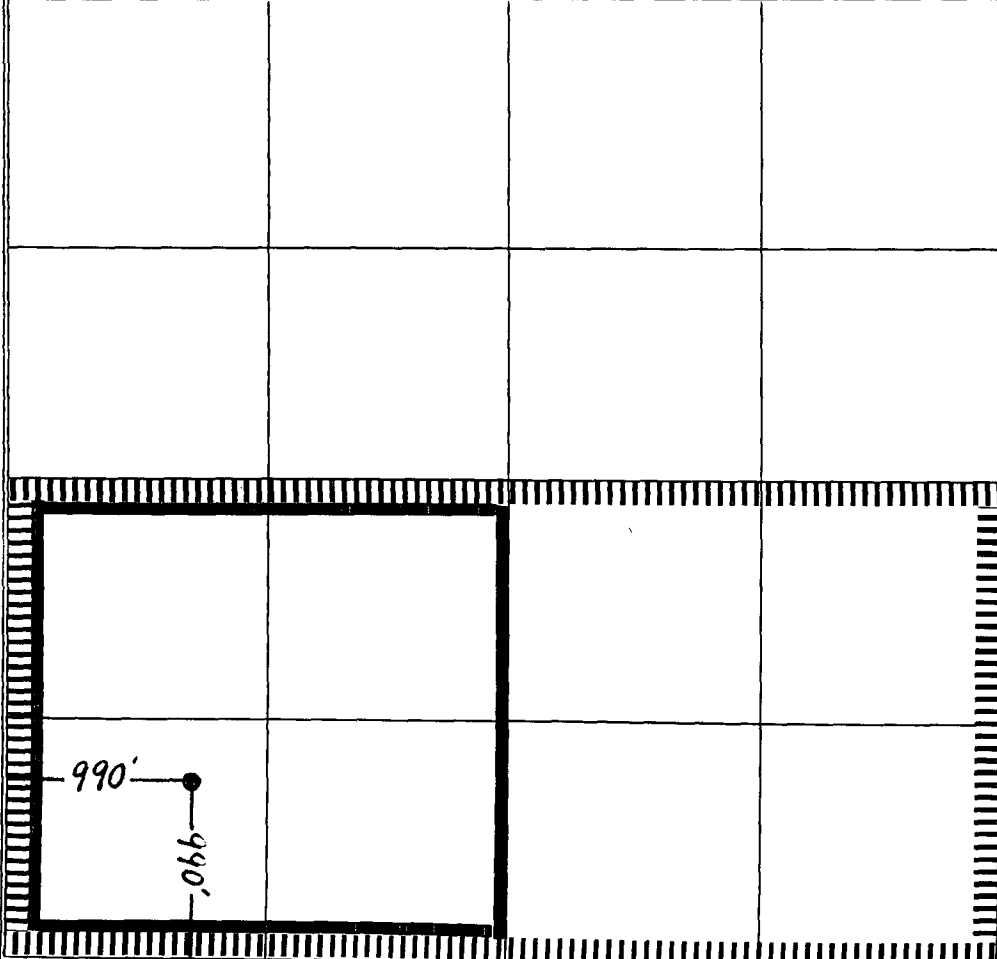
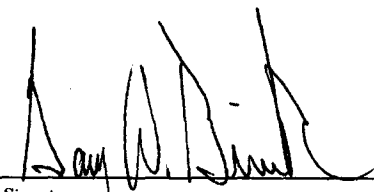
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-06790	² Pool Code 77360/72319	³ Pool Name Gavilan PC/Blanco MV
⁴ Property Code 007164	⁵ Property Name Jicarilla 95	⁶ Well Number 6
⁷ OGRID No. 162928	⁸ Operator Name Taurus Exploration, U.S.A., Inc.	⁹ Elevation 7123' GL

¹⁰ Surface Location									
UL or lot no. M	Section 36	Township 27N	Range 3W	Lot. Idn	Feet from the 990'	North/South Line South	Feet from the 990'	East/West line West	County Rio Arriba

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		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

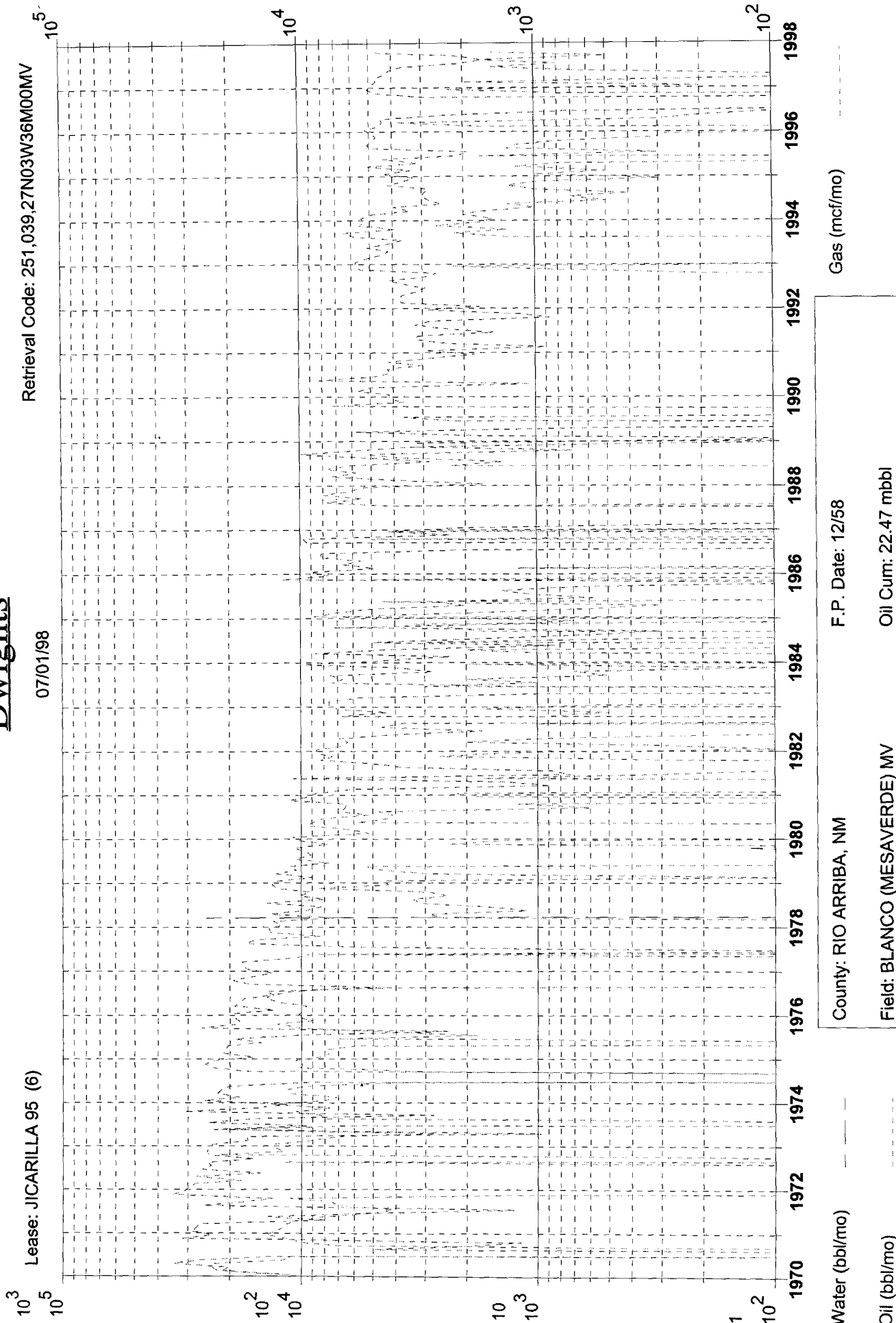
	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Gary W. Brink Printed Name Production Superintendent Title 7/1/98 Date
	¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location 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: Reissue of original survey Certificate Number

Dwights

Lease: JICARILLA 95 (6)

Retrieval Code: 251,039,27N03W36M00MV

07/01/98



Water (bbl/mo)

Oil (bbl/mo)

F.P. Date: 12/58

Oil Cum: 22.47 mbbl

Gas Cum: 5585 mmcf

Location: 36M 27N 3W

County: RIO ARriba, NM

Field: BLANCO (MESAVERDE) MV

Reservoir: MESAVERDE

Operator TAURUS EXPLORATION U.S.A.

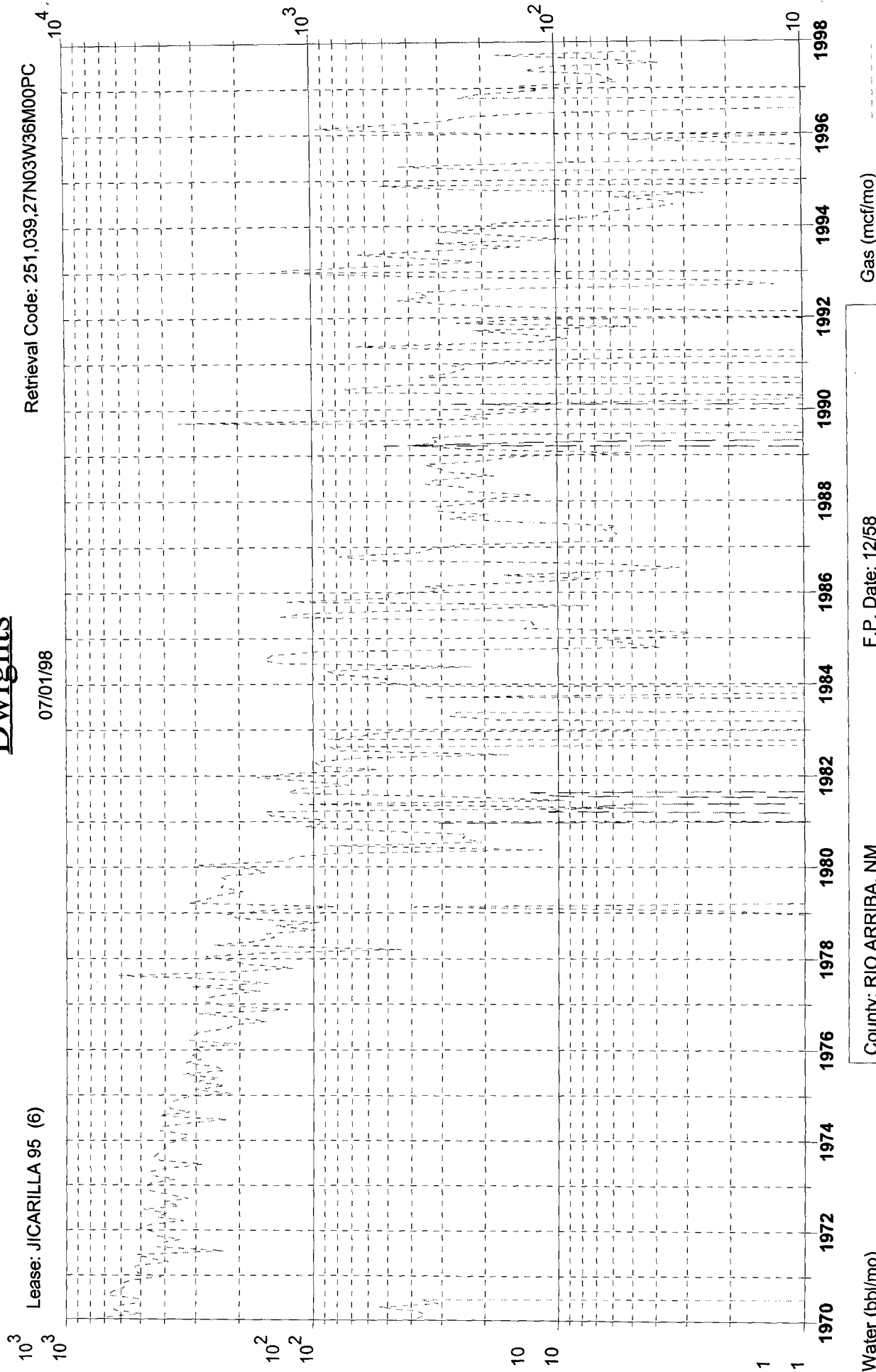
Gas (mcf/mo)

Dwights

Lease: JICARILLA 95 (6)

Retrieval Code: 251,039,27N03W36M00PC

07/01/98



Water (bbl/mo)

Oil (bbl/mo)

County: RIO ARRIBA, NM

Field: GAVILAN (PICTURED CLIFFS) PC

Reservoir: PICTURED CLIFFS

Operator TAURUS EXPLORATION U.S.A.

F.P. Date: 12/58

Oil Cum: 3068 bbl

Gas Cum: 1312 mmcf

Location: 36M 27N 3W

Taurus Exploration U.S.A., Inc

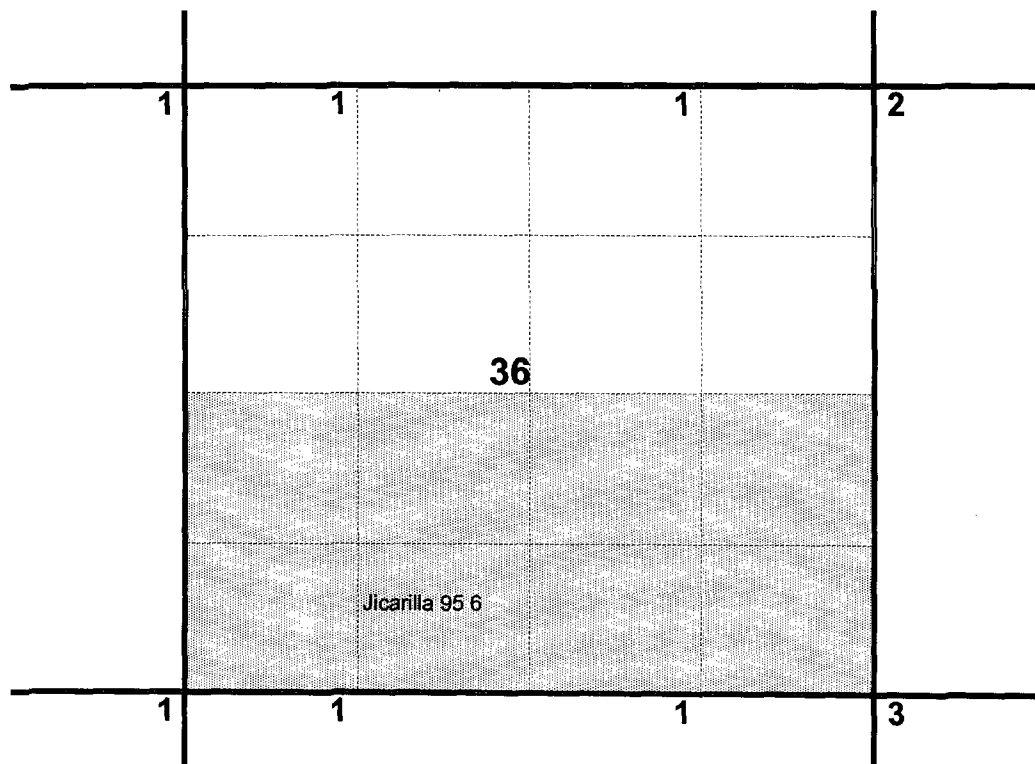
Jicarilla 95 #6

Offset Operator / Ownership Plat

Gavilan Pictured Cliffs/ Blanco Mesa Verde

Downhole Commingling

Township 27 N, Range 3 W



- 1) Taurus Exploration U.S.A., Inc
- 2) Jicarilla Energy Co.
P.O. Box 950
Dulce, N.M. 87528
- 3) Coleman Oil & Gas, Inc.
P.O. Drawer 3337
Farmington, N.M. 87401

Taurus Exploration U.S.A., Inc.

Jicarilla 95 #6

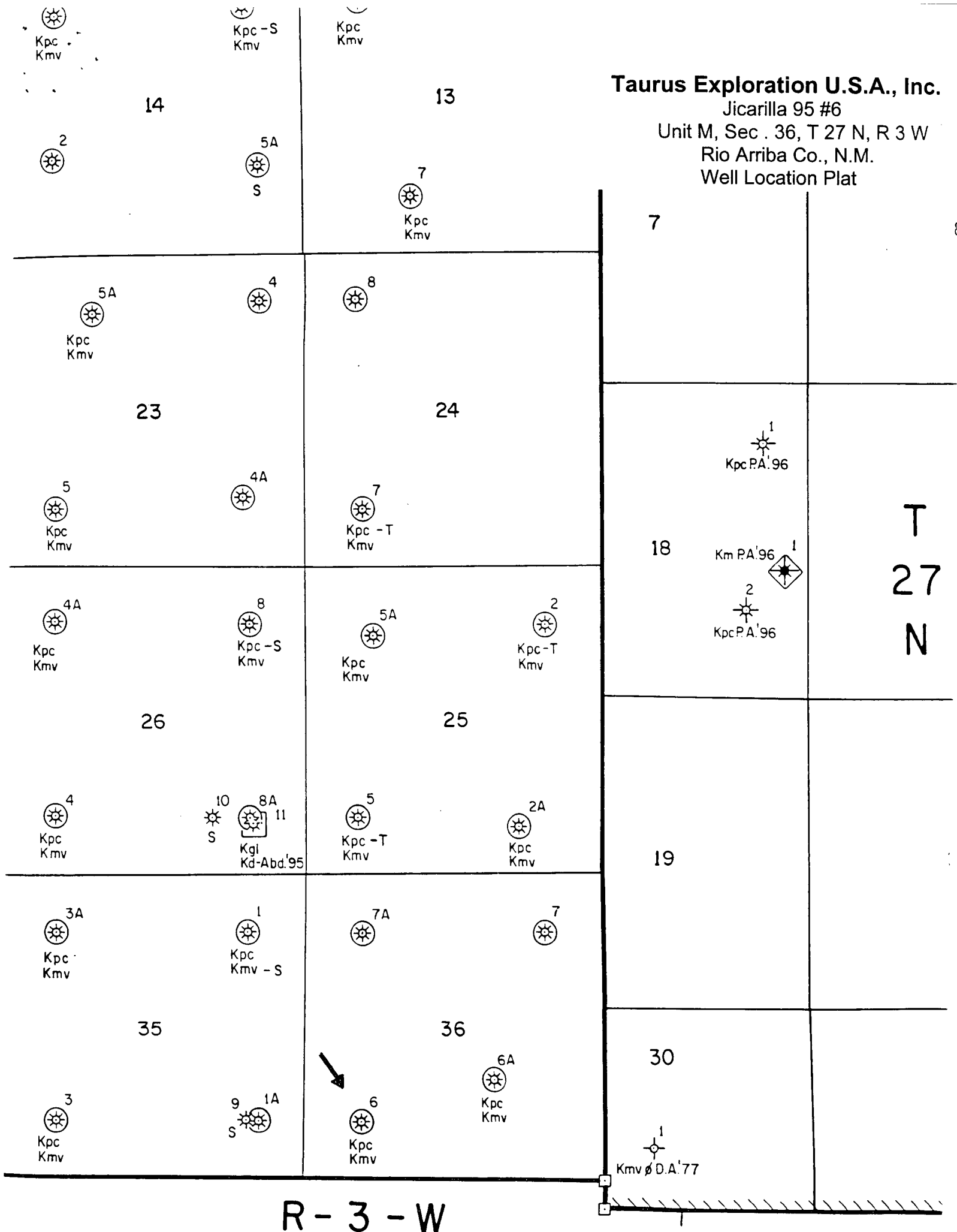
Unit M, Sec . 36, T 27 N, R 3 W

Rio Arriba Co., N.M.

Well Location Plat

T
27
N

R - 3 - W



Jicarilla 95 #6
Unit M, Sec.36, T 27 N, R 3 W
Rio Arriba Co., N.M.

Proposed Allocation Method

Produce total well stream for 30 days following upper Mesa Verde pay add
Pay Add projected to add 70 MCFD to Mesa Verde flow stream

Total Stream = X
Pictured Cliffs rate = 35 MCFD

PC Allocation = $35 / X$ as a percentage

MV Allocation = $(X - 35) / X$ as a percentage

Oil Allocation = 100 % to Mesa Verde Zone

Rates will be reported to NMOCD - Aztec for final allocation percentage determination