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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

		- Engineering Bureau -	BION
	·	ADMINISTRATIVE APPLICATION COV	ERSHEET
-	THIS COV	PRISHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO	DOVISION RULES AND REGULATIONS
Appli	ग	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Proration Unit] [NSL-Non-Standard Proration Unit] [SD-Simultaneous Dedict Downhole Commingling] [CTB-Lease Commingling] [PLC-Poper Proposed Proposed Proposed [PMX-Pressure Maintenance [SWD-Saft Water Disposal] [IPI-Injection Pressure In-Qualified Enhanced Oil Recovery Certification] [PPR-Positive	ation] pol/Lease Commingling] ease Measurement] e Expansion] acrease]
[1]	TYPE OF A [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD DSD	APR 1 4 2000
	Check [B]	Commingling - Storage - Measurement DHC CTB PLC PC OLS	O OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil WFX PMX SWD IPI DEOR	•
[2]	NOTIFICAT	TION REQUIRED TO: - Check Those Which Apply, or Working, Royalty or Overriding Royalty Interest Ow	• • •
	[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 U.S. Bureau of Land Management - Commissioner of Public Lands, State Li	SLO and Office
	[E]	Tor all of the above, Proof of Notification of Publication	tion is Attached, and/or,
	[F]	☐ Waivers are Attached	
[3]	INFORMATI	ON / DATA SUBMITTED IS COMPLETE - Statemen	nt of Understanding
approv RI, OF	by certify that I, ations of the Oil val is accurate ar RI) is common	or personnel under my supervision, have read and complication Division. Further, I assert that the attached complete to the best of my knowledge and where applicable to the best of my knowledge and where application or notification is cause to have the application package of the supervisory capacitants and supervisory capacitants.	ied with all applicable Rules and d application for administrative cable, verify that all interest (WI,
TAR or	Y BRINK Type Name	Signature Title	62 John. 4/13/00

DISTRICT II

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

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

ENERGEN RESOURCES CORPORATION

State of New Mexico Energy, Minerals and Natural Resources Department

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

APPROVAL PROCESS:

 $\underline{\underline{\mathsf{X}}}$ _Administrative ___Hearing

OIL CONSERVATION DIVISION

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

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

EXISTING WELLBORE APPLICATION FOR DOWNHOLE COMMINGLING <u>X</u> YES ___NO 2198 Bloomfield Highway, Farmington, New Mexico 87401

Jicarilla 99	17 C	Sec. 23 T26N R3W	Rio Arriba County, NM						
OGRID NO. 162928 Property Cod			Unit Lease Types: (check 1 or more)						
The following facts are submitted in support of downhole commingling	Upper Zone	Lower Zone							
Pool Name and Pool Code	Blanco MV 72319		NE Ojito GL-DK 48025						
Top and Bottom of Pay Section (Perforations)	5440-6050		6916-7635						
Type of production (Oil or Gas)	gas		oil						
Method of Production (Flowing or Artificial Lift)	flowing		flowing						
Bottomhole Pressure Oil Zones - Artificial Lift:	a. (Current) not completed	a.	a. 1378 meas.						
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original) 1800 est.	b.	b. 2388 meas. ❤						
6. Oil Gravity (^O API) or Gas BTU Content)	1248 BTU est.		47 degrees API						
7. Producing or Shut-In?	not completed		producing						
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	Date: Rates:	Date: Rates:	Date: Rates:						
If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: not completed Rates:	Date: Rates:	Date: 3/29/00 Rates: 2/54/1						
8. Fixed Percentage Allocation Formula -% for each zone	oil: Gas: see * attached *	Oil: Gas: %							
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? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling? X YesNo									
11. Will cross-flow occur?Yes X_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 reliableYesNo (If No, attach explanation)									
12. Are all produced fluids from all commingled zones compatible with each other? X YesNo 13. Will the value of production be decreased by comminglian?									
 13. Will the value of production be decreased by commingling?Yes _X_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 applicationX_YesNo 									
15. NMOCD Reference Cases for Rule		ER NO(S).							
* For zones with no proc * For zones with no proc * Data to support allocat * Notification list of all o * Notification list of work * Any additional stateme	to be commingled showing its space ach zone for at least one year. (If duction history, estimated production method or formula. If set operators. king, overriding, and royalty interests, data, or documents required to	cing unit and acreage dedication. not available, attach explanation. ion rates and supporting data. sts for uncommon interest cases. to support commingling.							
* Johnston Shear 1A SE/4, Sec. 3, T26N, R3W, N.M.P.M.									
I hereby certify that the information at									
SIGNATURE Duy IV.	June	TITLE <u>Prod. Superintendent</u>	DATE <u>3/13/00</u>						
TYPE OR PRINT NAME Gary W. BI	rink	TELEPHONE NO. (505) 325-6800						



April 13, 2000

Ms. Lori Wrotenbery NMOCD 2040 South Pacheco Santa Fe, New Mexico 87505

RE:

Administrative Approval to Downhole Commingle

Energen Resources Corporation

Jicarilla 99 #17

935' FNL, 1770' FWL, Sec. 23, T26N, R3W, N.M.P.M.

Rio Arriba County, New Mexico

API # 30-039-26263

Dear Ms. Wrotenbery:

Energen Resources Corporation requests Administrative Approval to add the Blanco Mesaverde and downhole commingle it with the NE Ojito Gallup-Dakota Pool in the subject well.

This well was drilled at the request of the Bureau of Land Management to protect drainage from offset leases in the Gallup-Dakota Pool. Open Hole Log results showed marginal development in the Gallup-Dakota and production results confirmed the log analysis. The Mesaverde Zone appears productive on the log and has similar characteristics to our direct offset wells. It is felt that completing the Mesaverde in this wellbore would improve the economic life of the well by utilizing the Mesaverde flowstream to lift the Gallup-Dakota fluids and prevent premature abandonment of the Gallup-Dakota pool.

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 Commingle
- 2. C102 Location plat showing each spacing unit and dedicated acreage
- 3. Production type curves for both the Mesaverde and Gallup-Dakota
- 4. Offset operator plat
- 5. Well location plat
- 6. Proposed 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/mt

cc: NMOCD – Aztec, BLM – Albuquerque, Offset Operators Jic117E 3A 5-99.doc

District I PO Box 1980, Hobbs, NM 88841-1980

Staté of New Mexico Enengy, Minerals & Natural Resources Dapartment

OIL CONSERVATION DIVISION PO Box 2088

Santa Fe. NM 87504-2088

District II PO Crawer CO. Antesia. NM 58211-0719

Form C-100 Revised February 21, 1881 Instructions on back Submit to Appropriate District Office State Lease - 4 Cooles Fee Lease - 3 Cooles

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

District IV PO 80x 2088, Santa Fa. NM 87504-2088

'APT Number

30-039-26263

*Procenty Code

| AMENDED REPORT

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17

WELL LOCATION AND ACREAGE DEDICATION PLAT

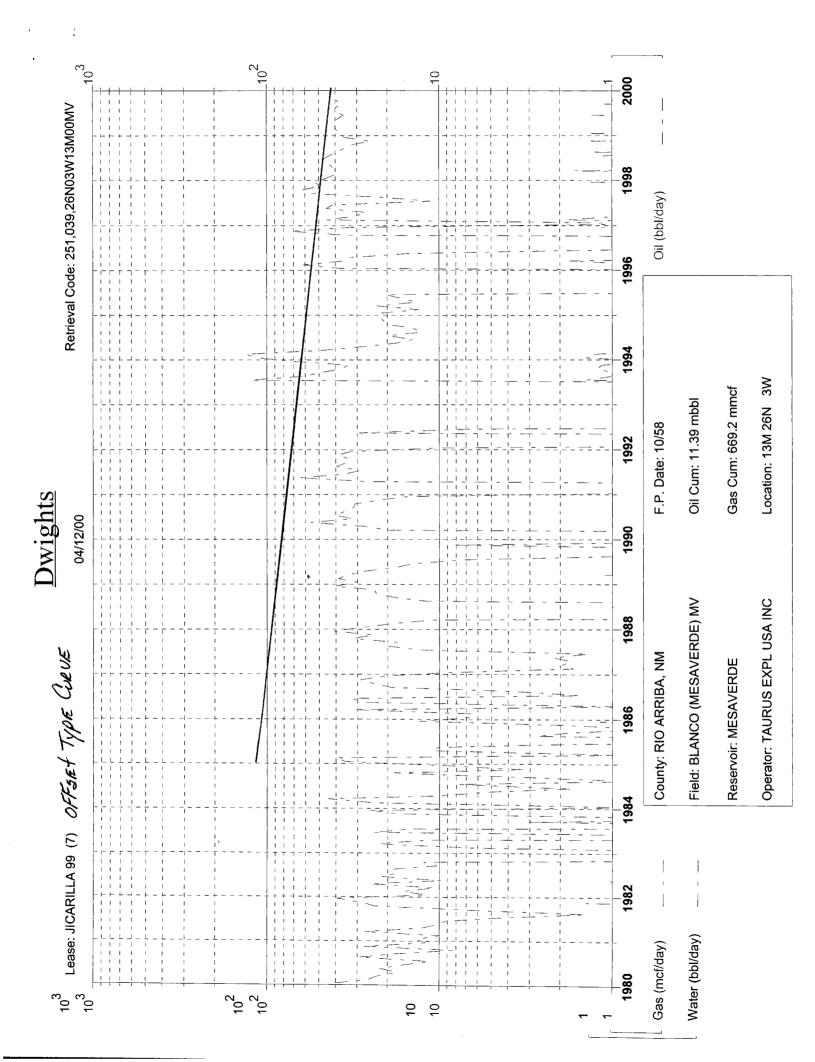
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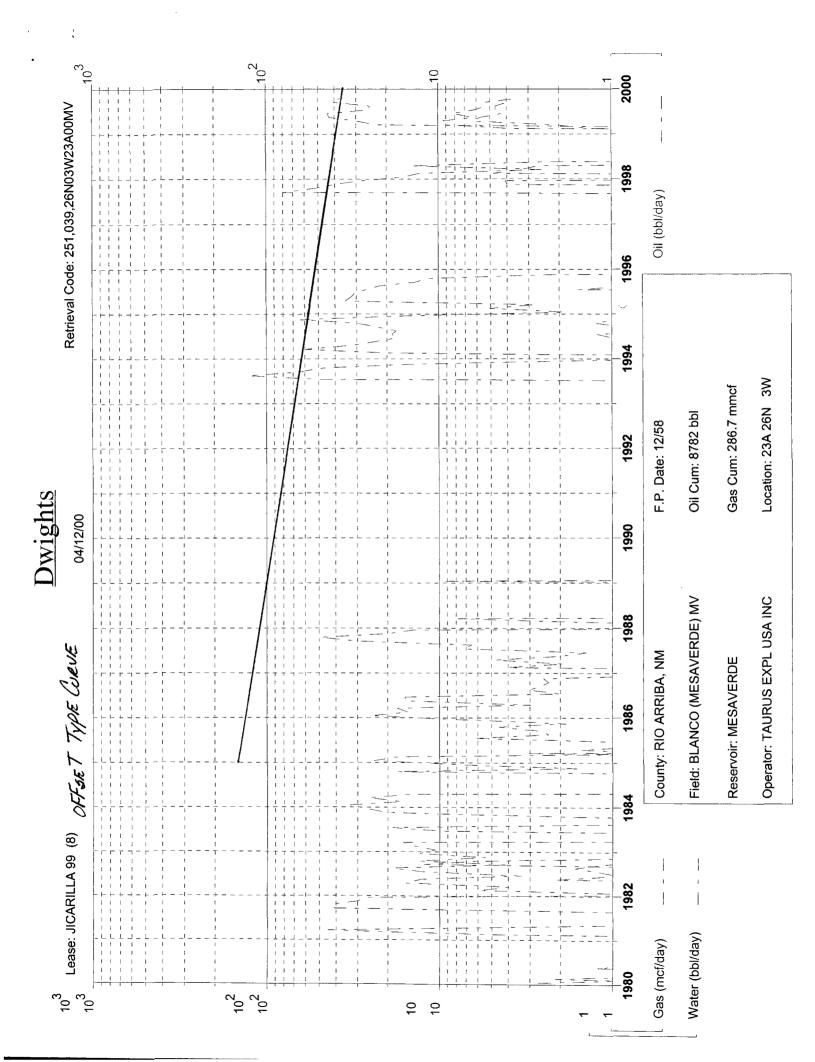
JICARILLA 99

72319/45025

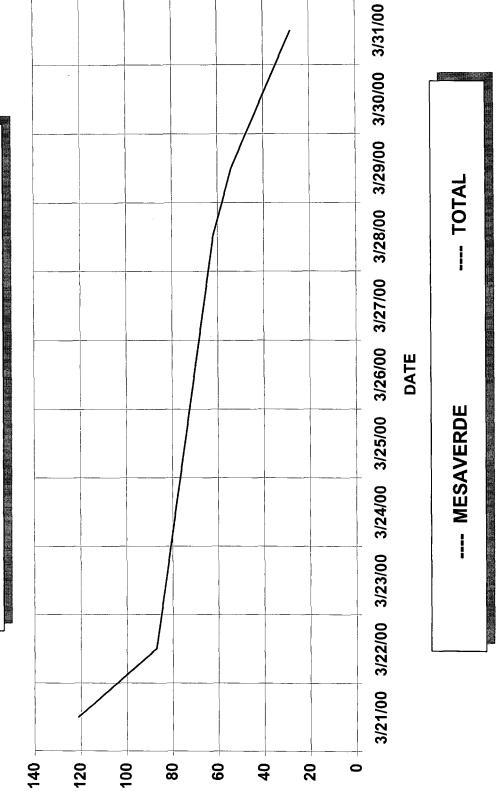
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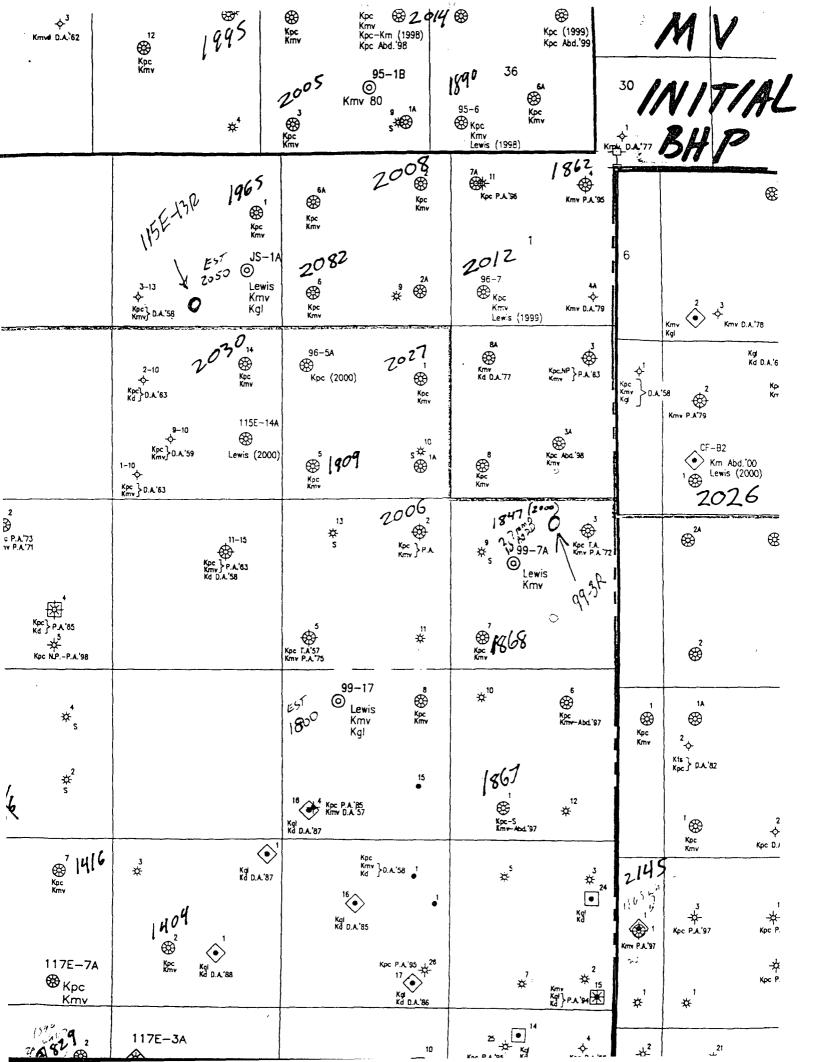




JICARILLA 99 17 DAILY GAS PRODUCTION PLOT



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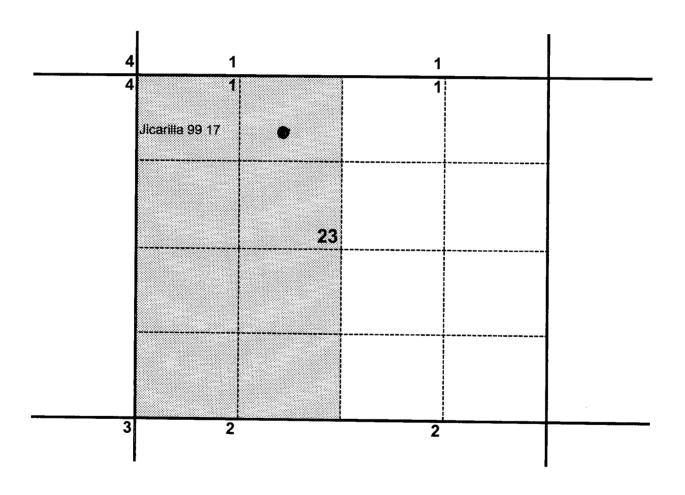


Energen Resources Corp.

Jicarilla 99 17 Offset Operator / Ownership Plat

Blanco Mesa Verde/ NE Ojito Gallup -Dakota Downhole Commingling

Township 26 N, Range 3 W



- 1) Energen Resources
- 2) Apache Corp. 2000 Post Oak Blvd, Suite 100 Houston, Tx. 77056
- 3) Rio Chama P.O. Box 3027 Pagosa Springs, Co. 81147
- 4) Unkown

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Jicarilla 99 #17

Proposed Allocation Method

Produce total well stream for 30 days following Mesa Verde pay add Pay add projected to add 120 MCFD from Mesa Verde

Total Stream = X Gallup/Dakota flow rate = 54 MCFD

GL/DK Allocation = 54/ X as a percentage

MV allocation = (X-54)/X as a percentage

MV Oil Allocation = Total stream- 2 BOPD to Gallup/Dakota as a percentage of total Production

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