10/31/02	_ NA _ MI _ DHC _ 230451564
	ABOVE THIS LINE FOR DIVISION USE CHLY
	NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -
<u></u>	ADMINISTRATIVE APPLICATION COVERSHEET
THIS C	DVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
	I: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] -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] R-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] <b>TYPE OF</b> <i>A</i> [A]	APPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD OCT 3   2002
Chec [B]	k One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
[2] NOTIFICA [A]	TION REQUIRED TO: - Check Those Which Apply, or 🖸 Does Not Apply
[B]	Offset Operators, Leaseholders or Surface Owner
[C]	Application is One Which Requires Published Legal Notice
[D]	X 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,
<b>[</b> F]	U 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 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.

Print or Type Name

Signature

Production Superintendent

10-29-02



October 29, 2002

Ms. Lori Wrotenbery NMOCD 1220 South Francis Dr. Santa Fe, New Mexico 87505

RE: Administrative Approval to Downhole Commingle Energen Resources Corporation Jicarilla 99 #3R
660' FNL, 1645' FEL, Sec. 13, T26N, R3W, N.M.P.M. Rio Arriba County, New Mexico API # 30-039-26352

Dear Ms. Wrotenbery:

Energen Resources Corporation requests Administrative Approval to add the Gavilan Pictured Cliffs and downhole commingle it with the Blanco Mesa Verde in the subject well. Open hole log results show potential in the Pictured Cliffs Formation similar to offset producing wells. Since the Pictured Cliffs is marginal in this area, it is felt that commingling is the most economical way to produce the Pictured Cliffs reserves in this proration unit.

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 Pictured Cliffs and Mesa Verde
- 4. Offset operator plat
- 5. Well location plat
- 6. Proposed allocation method
- 7. Supporting pressure Data

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,

In Jahan

Don Graham Production Superintendent

DG/vd

cc: NMOCD - Aztec, BLM - Albuquerque

District I

1625 N. French Drive, Ho

District II 811 South First Street, Artesia, NM 88210

bbs, NM 88240

District III 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

District IV

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107A Revised May 15, 2000

### **Oil Conservation Division**

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE \_X\_Single Well \_\_Establish Pre-Approved Pools EXISTING WELLBORE \_\_X\_\_Yes \_\_\_No

Energen Resources Corporation		2198 Bloomfield Highway, Farmington, NM 87401					
Operator Jicarilla 99	3R	Address B- Sec 13 T26N R3W	Rio Arriba, NM				
Lease	Well No.	Unit Letter-Section-Township-Range	County				

OGRID No. 162928 Property Code 21941 API No. 3003926352 Lease Type: \_\_\_\_Federal X State \_\_\_\_Fee

DATA ELEMENT	UPPE	R ZONE	INTER	MEDIATE ZONE	LOW	ER ZONE
Pool Name	Gav	vilan PC			Bl	anco MV
Pool Code	7	7360				72319
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	375	6'-3799'			58	66'-5998'
Method of Production (Flowing or Artificial Lift)	Not C	Completed			]	Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	81	4 Calc.			14	446 Calc.
Oil Gravity or Gas BTU (Degree API or Gas BTU)	12	37 Est.				1266
Producing, Shut-In or New Zone	Ne	w Zone			P	roducing
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: Not Cor	npleted	Date:		Date: 9/20	
estimates and supporting data.)	Rates:		Rates:		Rates: Oil – . Gas – 3	1 BOPD 0 MCFD
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil	Gas	Oil	Gas	Oil	Gas
than current or past production, supporting data or explanation will be required.)	%	%	%	%	%	%

### ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes_X No Yes No
Are all produced fluids from all commingled zones compatible with each other?	YesXNo
Will commingling decrease the value of production?	Yes NoX
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?	Yes_XNo
NMOCD Reference Case No. applicable to this well:	

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, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

#### PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

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

SIGNATURE for	Jaham	TITLE Production SuperintendenT	DATE 10-29-02
TYPE OR PRINT NAME_			05) 325-6800

District'I PO Box 1980, Hobbs, NM 68241-1980

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

District III 1000 Rio Brazos Rd., Aztec, NM 67410

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

A,	API Numbe			'Pool Co	de				'Pocl Nam	e			
300392	6352		773	60 / 72	319	Gav	ilan Picture	ed Cli	liffs / Blanco Mesaverde				
*Property					°Pr	operty			····-	······································		ell Number	
					<u> </u>			3R					
'OGRID N		Operator Name ENERGEN RESOURCES CORPORATI							*Elevation				
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Mexico Resources Departm. N DIVISION Mexico Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

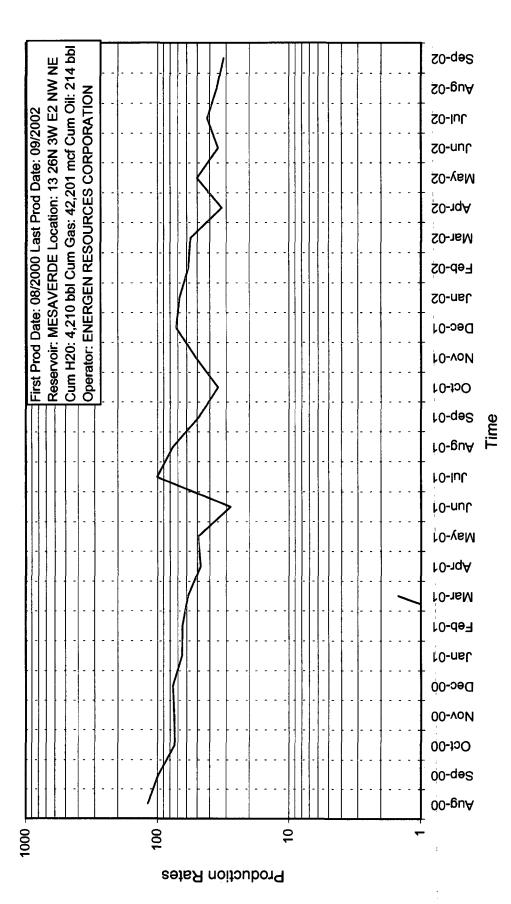
AMENDED REPORT

State of New Mexico Energy, Minerals & Natural Resources Departm

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

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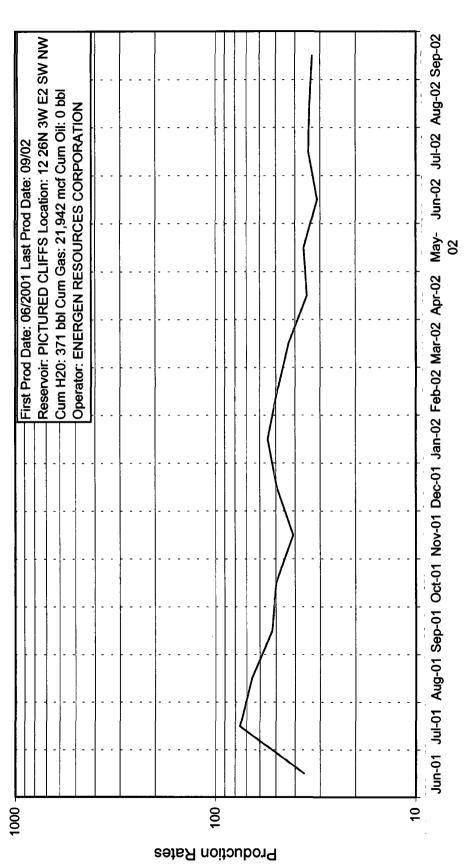
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------ Gas Production (mcf) Daily ------ Oil Production (bbl) Daily

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JICARILLA 96#8B



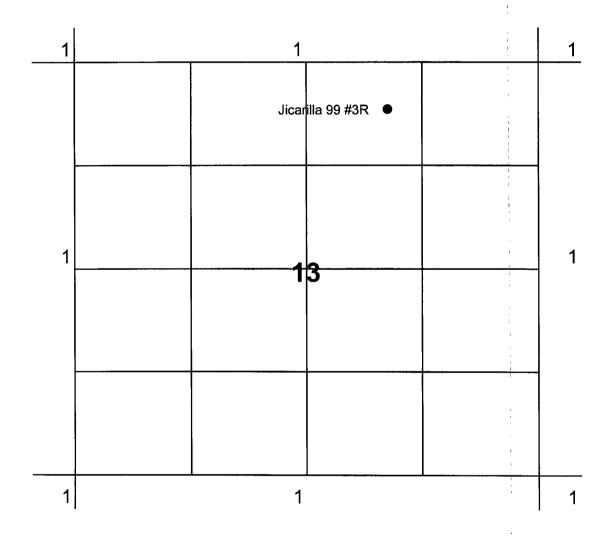
- Gas Production (mcf) Daily - Oil Production (bbl) Daily

Time

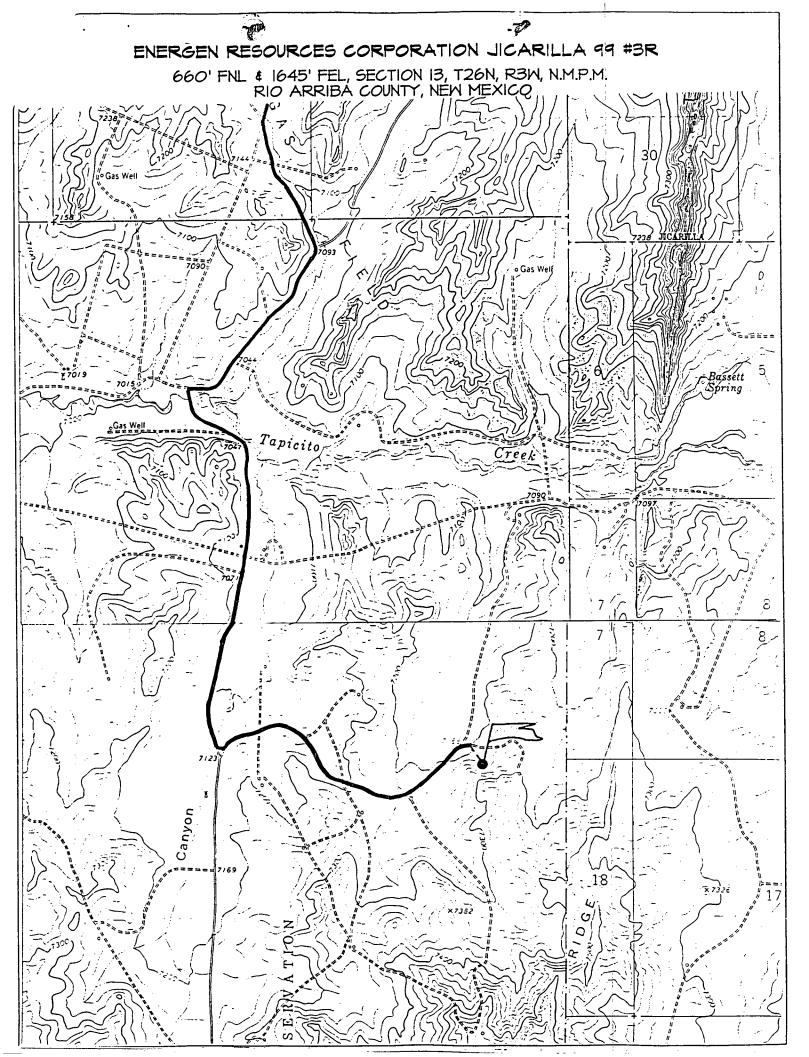
# **Energen Resources Corporation**

Jicarilla 99#3R Offset Operator/Ownership Plat Gavilan Pictured Cliffs/Blanco Mesaverde Downhole Commingling

## Township 26 N, Range 3 W



1.) Energen Resources



## Jicarilla 99#3R

## Proposed Allocation Method

Produce total well stream for 60 days following Pictured Cliffs pay add Pay add projected to add 70 MCFD from Pictured Cliffs

Total Stream = X Mesaverde flow rate = 30 MCFD

MV Allocation = 30/X as a percentage

PC allocation = (X-30)/X as a percentage

PC Oil allocation = ((Total Oil - .11 BOPD to Mesaverde )/ Total Oil) as a percentage of total production

L

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

Jicarilla 99#3R Pictured Cliffs Initial Bottom Hole Shut In Pressure

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	Jic 96#10 ☆ 804	ic <b>96#8B</b>			
	804				 
JIC 99#13 ☆ 895	14		Jic 99# ☆ 	3R <sub>13</sub>	18
					Т26
	Jic 99#11				
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			Jic 99#12		
			739		

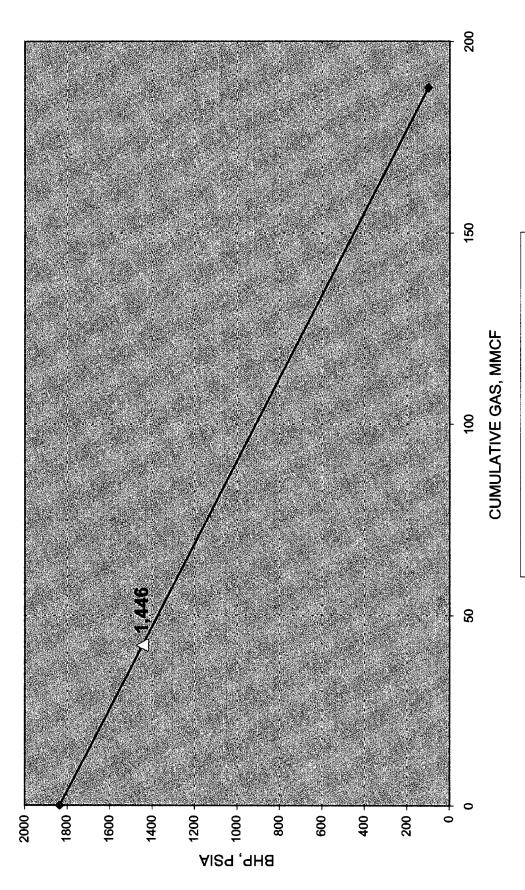
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Jicarilla 99#3R BHP VS CUM



----BHP VS CUM Line -----BHP @ Current Cum Gas