

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 #7A

1980' FNL, 1980' FWL, Sec. 13, T26N, R3W, N.M.P.M.

Rio Arriba County, New Mexico

API # 30-039-26305

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,

Don Graham

Production Superintendent

DG/vd

cc: NMOCD – Aztec, BLM – Albuquerque

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

District II

811 South First Street, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

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

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 TYPE X Single Well

APPLICATION FOR DOWNHOLE COMMINGLING

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Establish	Pre-A	ppro	ved P	ools
EXIS'	TING	WE	LLBC	RE
	X	Yes		No

Energen Resources Corporation	gen Resources Corporation 2198 Bloomfield Highway, Farmington, NM 87401								
Operator Jicarilla 99	7A	Rio Arriba, NM							
Lease	Well No.	Unit Letter-	County						
OGRID No. <u>162928</u> Property C	ode <u>21941</u> API	No. <u>3003926305</u> 1	Lease Type:	Federal <u>X</u> Sta	teFee				
DATA ELEMENT	UPPE	R ZONE INTERMEDIATE ZONE			LOWER ZONE				
Pool Name	Gav	ilan PC			Blanco MV				
Pool Code		7360			72319				
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)		o'-3778'				-5999'			
Method of Production (Flowing or Artificial Lift)	Not C	Completed				wing			
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)	814 Calc.				1479) Calc.			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	12	37 Est.			1:	257			
Producing, Shut-In or New Zone	Ne	w Zone			Prod	lucing			
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: Not Cor	npleted	Date:		Date: 9/2002 Rates: Oil - 1.4 Gas - 128				
Fixed Allocation Percentage	Oil	Gas	Oil	Gas	Oil Gas				
Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	% %		%	%	%	%			
		ADDITIO	NAL DATA		<u> </u>				
Are all working, royalty and overrid If not, have all working, royalty and	ling royalty intere l overriding royalt	sts identical in all co y interest owners be	mmingled zones en notified by ce	? rtified mail?	Yes Yes	X No No			
Are all produced fluids from all con	nmingled zones c	ompatible with each	other?		Yes	_X No			
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_X_No									
NMOCD Reference Case No. applie	cable to this well:								
Attachments: C-102 for each zone to be common Production curve for each zone For zones with no production hat to support allocation meth Notification list of working, roy Any additional statements, data	for at least one ye istory, estimated p od or formula. valty and overridit	ear. (If not available production rates and	, attach explanati supporting data. or uncommon int	on.)					
TOLS TOLS									

PO Eax 1980, Hopps, NM 88241-1980

Energy, Minerals & Natural Resources Depart.

Revised February 2: 1994 Instructions on back Submit to Appropriate District Office

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

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2068 State Lease - 4 Copies Fee Lease - 3 Copies

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

____ AMENDED REPORT

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

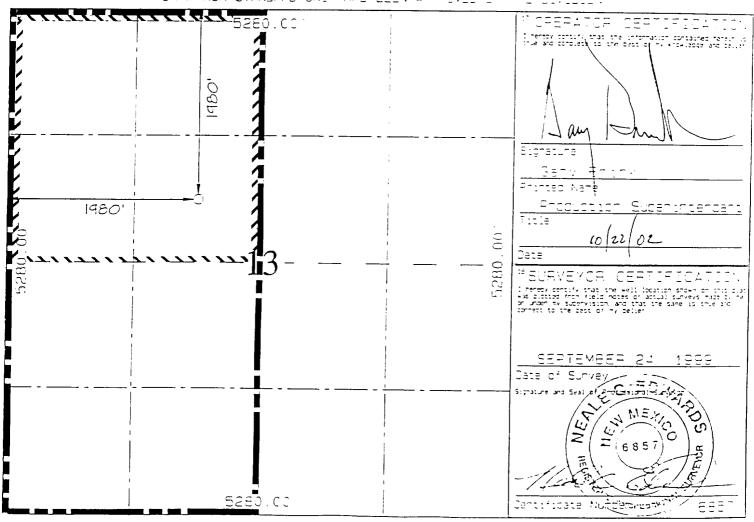
WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number 'Pool Code		*Pocl Name				
30-039-26305	9-26305 77360 / 72319 Gavilan Pictured Cliffs /_ Bla					
*Property Code		Property Name 'Well Number CARILLA 99 74	mde-			
162928		CONDUCT CODDOOLTTON	'Elevation 7238'			

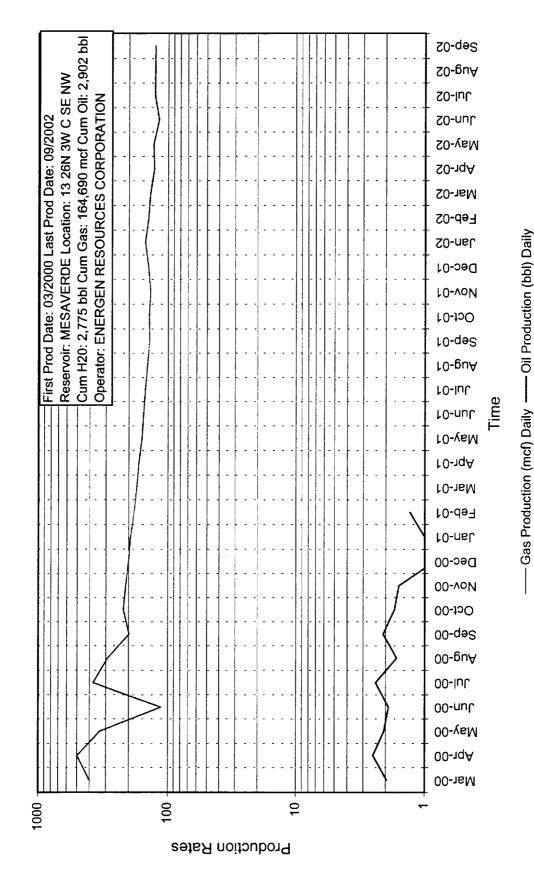
¹⁰ Surface Location

					00. 1000				
UL or lot no.	Section	Township	Fange	Lot Ion	Feet from the	North/South line	Feet from the	East/mest line	County
F	13 26N 3W 198		1980	1980 NORTH		WEST	RIO ARRIPA		
		11 🖯	ottom	Hols L	ocation If	Different	From Sunf	ace	
UL or lot no.	Section	נרפראסז	Fanga	Lat Ion	Feet from the	Month/South line	Feet from the	East/#est line	Courty
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2 Decidated Acres					² voint on Infil	l ¹⁴ Consolidation Code	r ^{id} Orden No		
	160 /	320				ı			

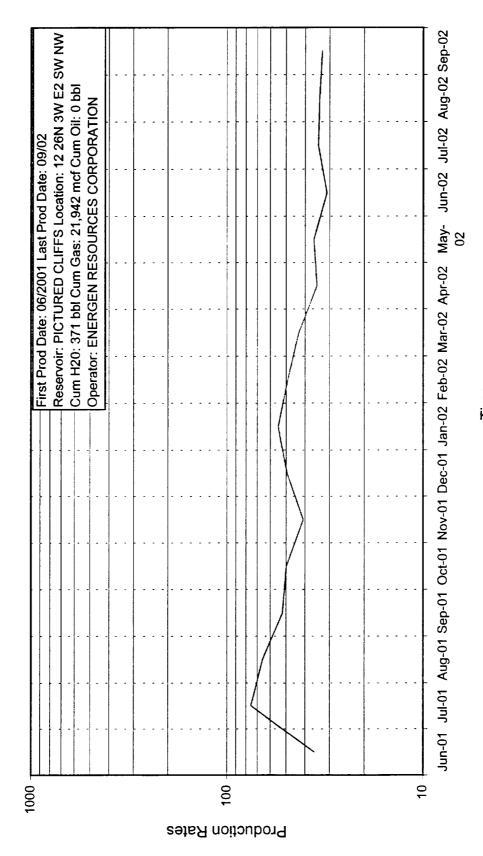
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEV CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION.



JICARILLA 99 # 7A



JICARILLA 96#8B



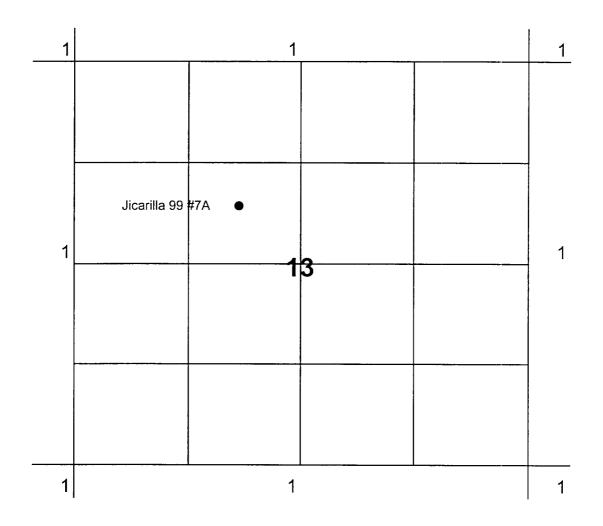
Time

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

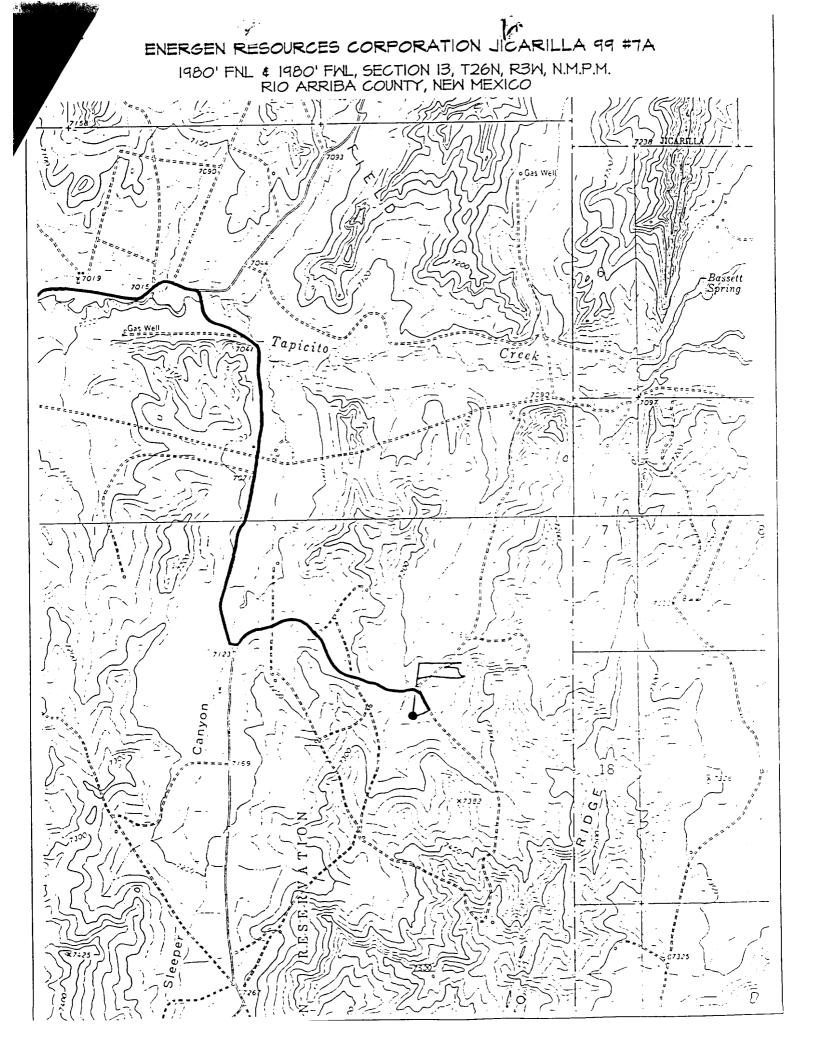
Energen Resources Corporation

Jicarilla 99#7A Offset Operator/Ownership Plat Gavilan Pictured Cliffs/Blanco Mesaverde Downhole Commingling

Township 26 N, Range 3 W



1.) Energen Resources



Jicarilla 99#7A

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 = 128 MCFD

MV Allocation = 128/X as a percentage

PC allocation = (X-128)/X as a percentage

PC Oil allocation = ((Total Oil - 1.4 BOPD to Mesaverde)/ Total Oil)as a percentage of total production

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

Pictured Cliffs Initial Bottom Hole Shut In Pressure

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R3W R2W

Jicarilla 99#7A BHP VS CUM

