

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,

Don Graham

Production Superintendent

In Jaka

DG/vd

cc: NMOCD - Aztec, BLM - Albuquerque

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

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 Oil Conservation Division

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

APPLICATION TYPE _X_Single Well

APPLICAT

Santa Fe, New Mexico 8/505	Establish Pre-Approved Pools
FION FOR DOWNHOLD CONDENSE THE	EXISTING WELLBORE
TION FOR DOWNHOLE COMMINGLING	X YesNo

Energen Resources Corporation		2	198 Bloomfield High	iway, Farmington, NM	87401		
Operator icarilla 99	3R		Address 3 T26N R3W		Rio Arriba, NM	1	
ease	Well No.	Unit Lett	er-Section-Township	n-Range	(County	
OGRID No. <u>162928</u> Property C	ode <u>21941</u> AP	I No. <u>300392635</u>	2 Lease Type: _	Federal X St	ateFee		
DATA ELEMENT UPPER ZONE			INTERM	EDIATE ZONE	LOWER ZONE		
ool Name	Gav	vilan PC			Blanco MV		
ool Code	7	77360			72319		
op and Bottom of Pay Section erforated or Open-Hole Interval)	375	6'-3799'			5866'-5998'		
Method of Production Flowing or Artificial Lift)	Not C	Completed			F	owing	
Sottomhole Pressure Note: Pressure data will not be required if the ottom perforation in the lower zone is within 150%. The depth of the top perforation in the upper zone)	81	4 Calc.			144	ló Calc.	
Oil Gravity or Gas BTU Degree API or Gas BTU)	12	37 Est.				1266	
Producing, Shut-In or New Zone	New Zone				Pro	oducing	
Date and Oil/Gas/Water Rates f Last Production. tote For new zones with no production history, policant shall be required to attach production	Date: Not Completed		Date:		Date: 9/2002	2	
timates and supporting data)	Rates:		Rates:		Rates: Oil – .1 Gas – 30		
ixed Allocation Percentage lote. If allocation is based upon something other an current or past production, supporting data or planation will be required.)	Oil %	Gas	Oil %	Gas	Oil %	Gas %	
praiation will be required.)					L		
		ADDITIO	ONAL DATA				
re all working, royalty and overridi not, have all working, royalty and	ng royalty interes overriding royalt	sts identical in all o y interest owners b	commingled zones' een notified by cer	? rtified mail?	Yes_ Yes_	X No No	
re all produced fluids from all com	mingled zones co	mpatible with eacl	n other?		Yes	_X No	
Vill commingling decrease the value	of production?				Yes	NoX	
this well is on, or communitized wrthe United States Bureau of Land	ith, state or federa Management bee	al lands, has either n notified in writin	the Commissioner og of this application	r of Public Lands on?	Yes	XNo	
MOCD Reference Case No. applica	able to this well:						
cttachments: C-102 for each zone to be comm Production curve for each zone for For zones with no production his Data to support allocation metho Notification list of working, roya Any additional statements, data of	or at least one yea tory, estimated pi d or formula. Ity and overriding	ar. (If not available roduction rates and groyalty interests	e, attach explanation I supporting data. for uncommon into	on.)			
		PRE-APPR	OVED POOLS				
If application	is to establish Pro	e-Approved Pools,	the following add	itional information wi	ll be required:		
st of other orders approving downly st of all operators within the propo- oof that all operators within the pro- ottomhole pressure data.	sed Pre-Approved	d Pools	• •				
hereby certify that the informati	on above is true	e and complete to	o the best of my l	knowledge and belie	ef.		
GNATURE for Acou						7-02	
YPE OR PRINT NAME A	al Caraha	14	TRI	EPHONE NO. / 57	 15 \ 275 /	0AA	

District I PO Box 1980, Hopps, NM 88241-1980

District II PO Drawer DD. Antesia, NM 88211-0719 District III 1000 Rio Brazes Fd., Aztes, NM 87410

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

State of New Mexico Energy, Minerals & Natural Resources Departm

OIL CONSERVATION DIVISION PO Eox 2088 Santa Fe. NM 87504-2088

Form C-192 Revised February 21, 1992 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

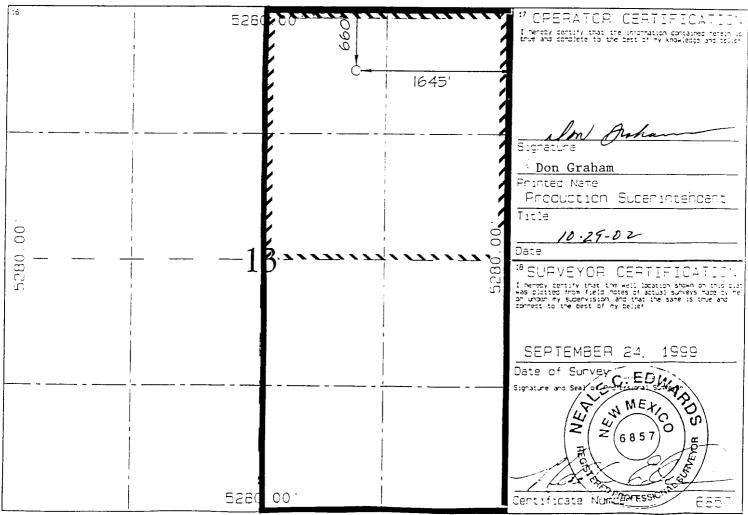
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

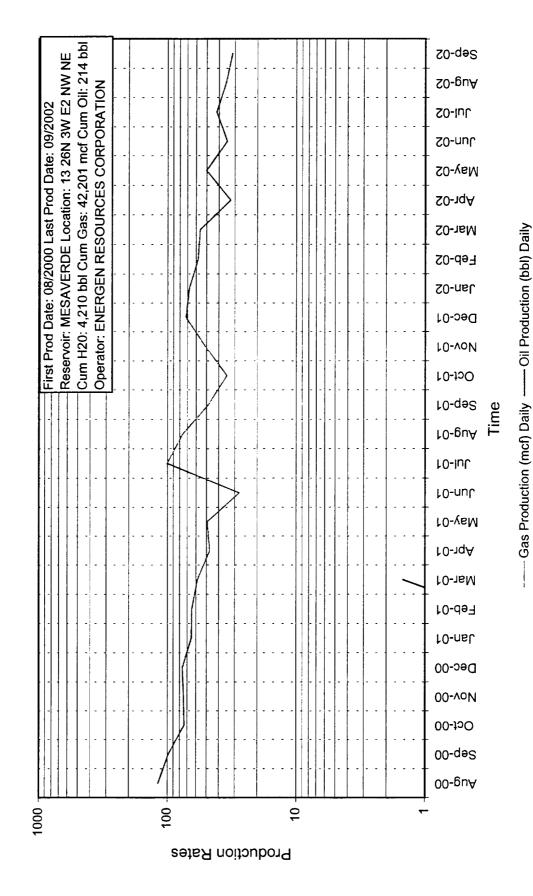
3003926352 77360 / 72319 Gavilan Pictured Cliffs , *Property Code JICARILLA 99 *OGRID No. *Operator Name	
JICARILLA 99	/ Blanco Mesaverde
	*Well Number
'Openation Name	35
Oper activities	°Elevation
162928 ENERGEN RESOURCES CORPORATION	7240
¹⁰ Surface Location	
UL or lot no. Section Township Range Lot Ion Feet from the North/South line Feet from the	East/west line County

HIO Ε 13 26N | 3W | 660 NORTH 1645 EAST ABIBA ¹¹Bottom Hole Location If Different From Surface utu on lot no. Section Township Feet from the North/South line Feet from the East/mest line County 12 Dedicated Acres Duport on Intill 4th Consciousion Code . 4 Onder No 160 / 320

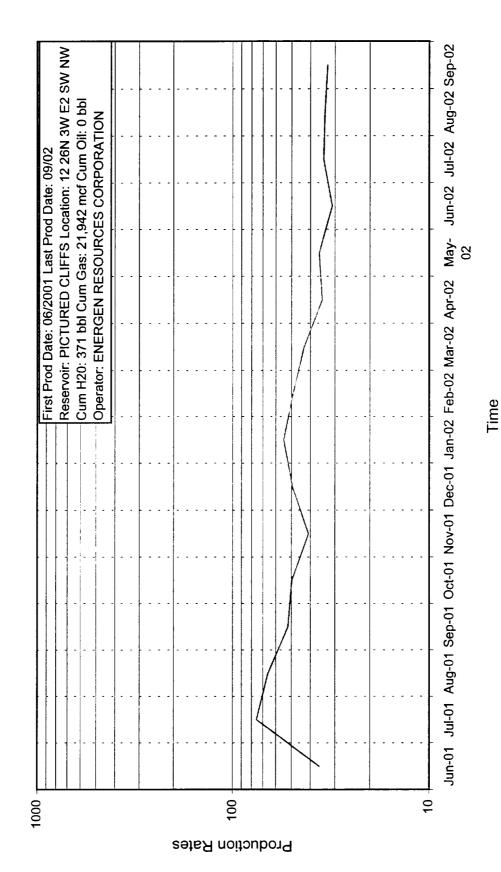
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



JICARILLA 99 # 3R



JICARILLA 96#8B

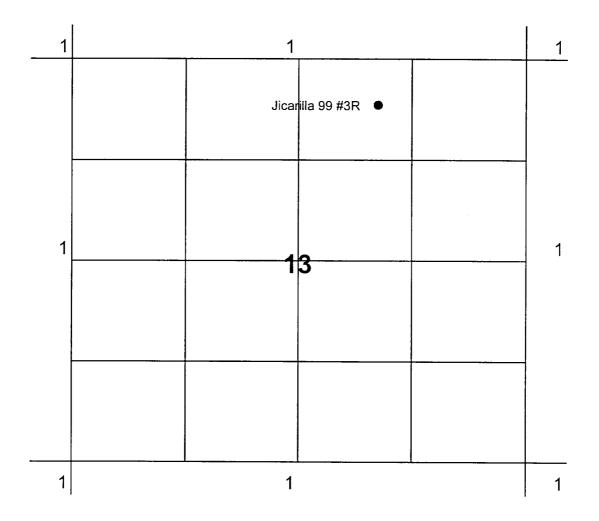


---- Gas Production (mcf) Daily ----- Oil Production (bbl) Daily

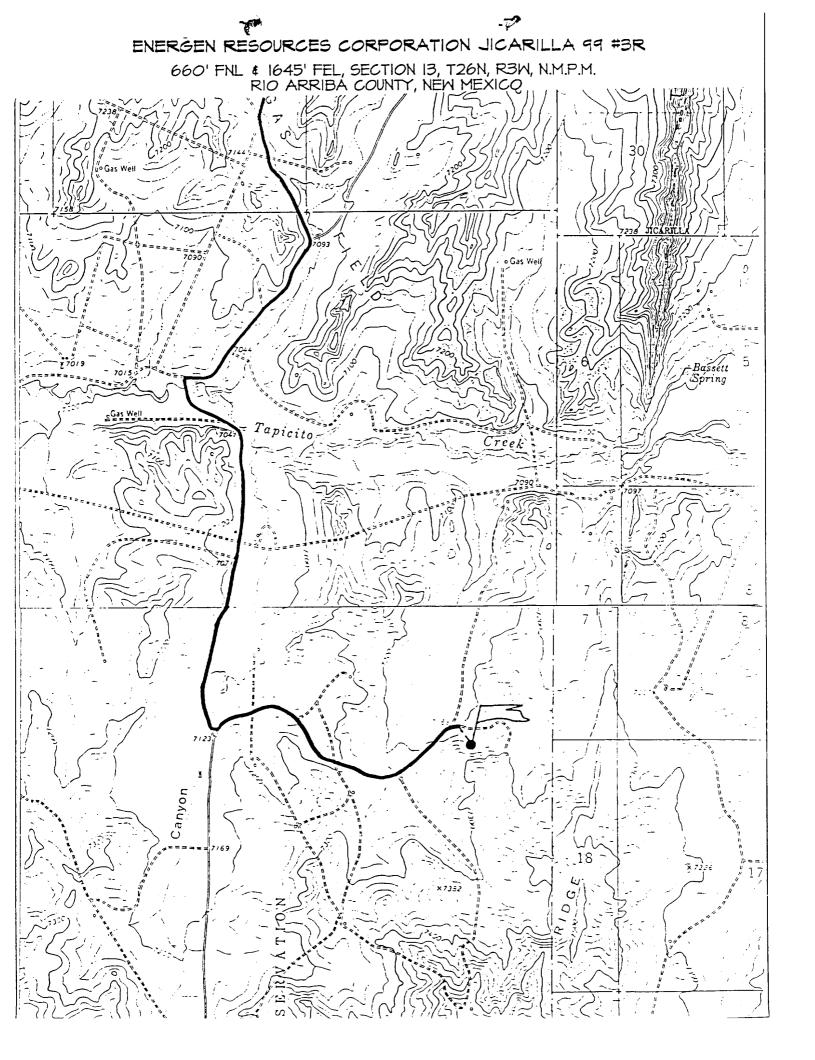
Energen Resources Corporation

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

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

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

	11		12	7
	tc 96# ☆	8 B		
	Jic 96#10 853 ☆ 804			
Jic 99#13 ☆ 895	14	Jic 99 ☆ 814.0	9#3R 13	18
				T26N
	Jic 99#11 ☆ 810			
	23 Jic 9	99#10	24	19
		Jic 99#	12	
		☆ 739		

R3W R2W

Jicarilla 99#3R BHP VS CUM

