00 DC Ŵ 4 THERE I BE FOR CONTRICT USE ON NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -ADMINISTRATIVE APPLICATION COVERSHEET THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS ß E **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] FEB 6 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] COMSERVATION DRASION [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Directional Drilling [A] **D**NSL **D**SD Check One Only for [B] or [C] Commingling - Storage - Measurement [B] **A**DHC **D** PLC **D** PC OLS Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C]  $\Box$  WFX  $\Box$  PMX **D** SWD DIPI DEOR **D** PPR [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply U Working, Royalty or Overriding Royalty Interest Owners [A] Offset Operators, Leaseholders or Surface Owner [B] [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 D For all of the above, Proof of Notification or Publication is Attached, and/or, E1 [F] Waivers are Attached INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding [3] 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.

GARY	BRINK
Print or /T	VDe Name

Signature



February 14, 2000

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

RE: Administrative Approval to Downhole Commingle Energen Resources Corporation Jicarilla 94 #6
990' FNL, 990' FEL, Sec. 27, T27N, R3W, N.M.P.M. Rio Arriba County, New Mexico

Dear Ms. Wrotenberry:

Energen Resources Corporation requests administrative approval for downhole commingling the Gavilan Pictured Cliffs and Blanco Mesaverde pools in the subject well. The well is currently producing as a Pictured Cliffs/Mesaverde dual completion. The Pictured Cliffs zone has experienced liquid loading problems and it is felt downhole commingling will eliminate excessive operational expenditures and allow the Mesa Verde flowstream to aid in keeping the Pictured Cliffs zone unloaded and producing.

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 Commingling
- 2. C-102 Location plat showing each spacing unit and dedicated acreage
- 3. Production curves for both the Pictured Cliffs and Mesaverde
- 4. Offset operator plat
- 5. Well location plat.

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, Offset Operators, BLM-Albuquerque MONICA\PRODUCTI\OCD\JIC94-6 2-00.DOC

#### DISTRICT (

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P.O. Box 1980, Hobbs, NM 88241-1980 <u>DISTRICT II</u> 811 S. First St., Artesia, NM 88210-2835 <u>DISTRICT III</u> 1000 Rio Brazos Rd, Aztec, NM 87410-1693

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### State of New Mexico Energy, Minerals and Natural Resources Department

New 3-12-96

APPROVAL PROCESS:

X\_Administrative \_\_Hearing

# OIL CONSERVATION DIVISION

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

<u>X</u>YES \_\_\_NO

ENERGEN RESOURCES CORPORATIO	N 2198		, Farming	ton, New Mexico 87401			
Jicarilla 94	6 A	Sec. 27 T27N	R3W	Rio Arriba			
Lease		Sec - Twp - Rge		County Unit Lease Types: (check 1 or more)			
	de <u>21937</u> API NO. <u>30-</u>	039-06934	_ Federal _/	X_, 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)	4074-4157			5864-6344			
3. Type of production (Oil or Gas)	Gas			Gas			
4. Method of Production (Flowing or Artificial Lift)	Flowing			Flowing			
5. Bottomhole Pressure	a. <sup>(Current)</sup>	a.		a.			
Oil Zones - Artificial Lift: Estimated Current	548 calc.			289 calc.			
Gas & Oil - Flowing: Measured Current All Gas Zones:	b. <sup>(Original)</sup>	b.		b.			
Estimated Or Measured Original	1110 calc.			1925 calc.			
6. Oil Gravity ( <sup>0</sup> API) or Gas BTU Content)	1208 BTU			1203 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	Date: 2/2/00 Rates:	Date: Rates:		Date: 1/27/00 Rates:			
(within 60 days)	0/44/.3	hates.		.2/84/.1			
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: 34 <sup>%</sup>	Oil: Gas: %	%	Oil: Gas: 100 <sup>% Gas:</sup> 66 <sup>%</sup>			
9. If allocation formula is based submit attachments with supp	upon something other than cu orting data and/or explaining	rrent or past production method and providing	n, or is bi rate proje	ased upon some other method, actions or other required data.			
<ol> <li>Are all working, overriding, and ro If not, have all working, overriding Have all offset operators been given</li> </ol>	yalty interests identical in all cor g, and royalty interests been noti ven written notice of the propose	nmingled zones? fied by certified mail? ad downhole commingling	1?	X Yes No Yes No X Yes No			
11. Will cross-flow occur?	Yes <u>X</u> No If yes, are fluid and will the allocation formula b	s compatible, will the fo be reliable.	ormations r Yes	not be damaged, will any cross- No (If No, attach explanation)			
12. Are all produced fluids from all commingled zones compatible with each other?							
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 application. <u>X</u> Yes <u>No</u>							
15. NMOCD Reference Cases for Rule	e 303(D) Exceptions: OF	DER NO(S)					
* Production curve for e * For zones with no proc * Data to support allocat * Notification list of all o	to be commingled showing its sp ach zone for at least one year. ( duction history, estimated produc tion method or formula. offset operators. king, overriding, and royalty inter ents, data, or documents required	If not available, attach ex tion rates and supporting	kplanation.) g data.	)			
I hereby certify that the information at	bove is true and complete to the	best of my knowledge a	nd belief.				
SIGNATURE DAM M.K		TITLE <u>Prod. Superi</u>		DATE			
TYPE OR PRINT NAME Gary W. B	rink	TELEPHO	). NE NO. ( _	<u>505</u> ) <u>325-6800</u>			

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

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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

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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

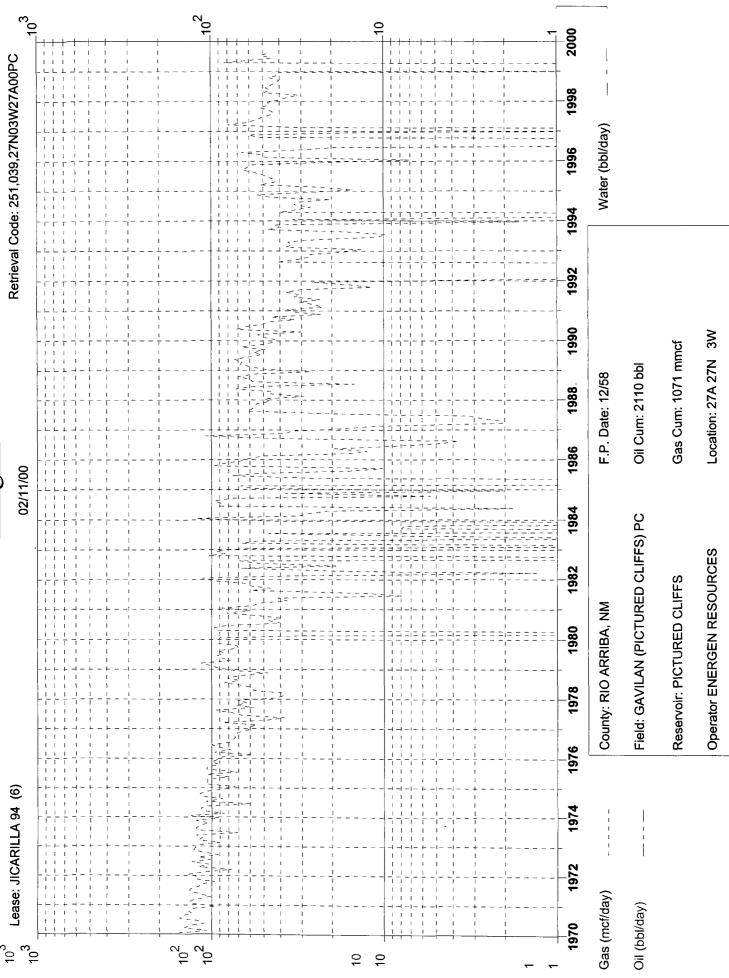
### X AMENDED REPORT

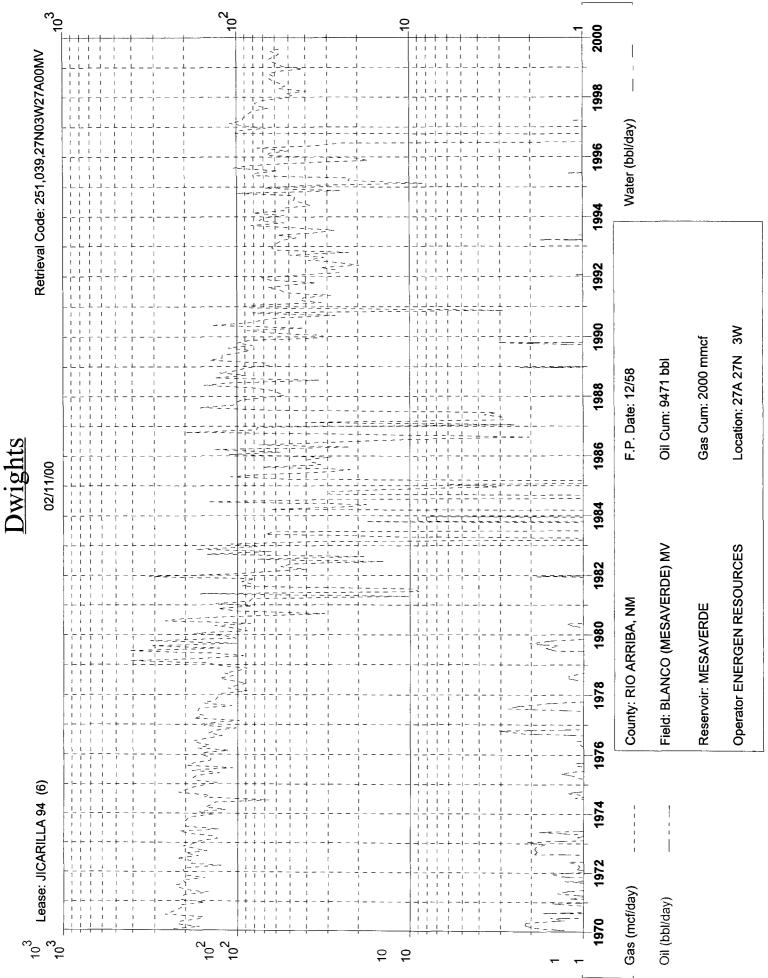
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## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>1</sup> API Number <sup>2</sup> Pool Code <sup>3</sup> Pool Name					<u> </u>	
30-039-06934		77360/72319	Gavilan PC/Blanco MV				
<sup>4</sup> Property Code			perty Name		6	Well Number	
21937			licarilla 94 6				
7 OGRID No.		8 Ope	Operator Name 9 Elevation				
162928		ENERGEN RESC	URCES CORPORATION	7378			
		<sup>10</sup> Surface	e Location				
UL or lot no. Section To	ownship Range	Lot. Idn Feet from	n the North/South Line	Feet from the	East/West line	County	
A 27	27N 3W	99	0' N	990.	E	Rio Arriba	
	11 Во	ttom Hole Location	If Different From Surfac	ce			
UL or lot no. Section T	ownship Range	Lot. Idn Feet fro	m the North/South Line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acres 13 Joint or 160/320	Infill <sup>14</sup> Consolidation	Code <sup>15</sup> Order No.	L	1	A		
NO ALLOWABLE WIL						SOLIDATED	
<u> </u>				17 OPERAT	OP CEPTIE		
	OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION						

Dwights

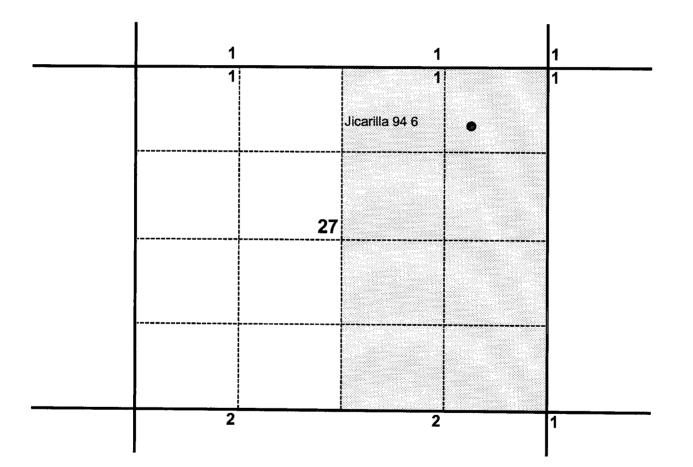




# Energen Resources Corp.

Jicarilla 94 #6 Offset Operator / Ownership Plat Gavilan Pictured Cliffs/ Blanco Mesa Verde Downhole Commingling

Township 27 N, Range 3 W



1) Energen Resources

2) Williams Production Co. P.O. Box 3102 Tulsa, OK. 74101

