	5/25/99	-6/16/99 - DC - KV - DHC
		ABOVE THIS LINE FOR DIVISION USE CHLY
		NEW MEXICO OIL CONSERVATION DIVISION 2360
		ADMINISTRATIVE APPLICATION COVERSHEET
	THES CO	VERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
аррис	([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-Sait Water Disposal] [IPI-Injection Pressure Increase] -Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
1]	TYPE OF A [A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP NSL NSP DD SD
	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]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[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 SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	For all of the above, Proof of Notification of Publication is Attached, and/or,
	[F]	U Waivers are Attached
]	INFORMAT	ION / DATA SUBMITTED IS COMPLETE - Statement of Understanding
ereb	y certify that I,	or personnel under my supervision, have read and complied with all applicable Rules and Conservation Division. Further, I assert that the attached application for administrative

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 aken.

GARY BRINK Tint or Type Name

Note an Signature Title



May 21, 1999

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

RE: Administrative Approval to Downhole Commingle Energen Resources Corporation Jicarilla 117E #3A 1700' FNL, 800' FWL, Sec. 34, T26N, R3W, N.M.P.M. Rio Arriba County, New Mexico API # 30-039-25964

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 recently drilled direct offset well; the Jicarilla 117E #7A. 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

Energen Resources Corporation, an Energen Company 2198 Bloomfield Highway, Farmington, New Mexico 87401 505.325.6800

DISTRICT I

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P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II 811 S. First St., Artesia, NM 88210-2835 DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 2040 S. Pacheco 29

Santa	a Fe	, New	Mexico	87505	64-642

APPROVAL PROCESS: X_Administrative ____Hearing

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

X YES NO

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

ENERGEN RESOURCES CORPORATIO	N 2198 E Address	<u>Bloomfield Highway, Farmin</u>	ngton, NM 87401			
Jicarilla 117E	3A 0 Well No. Unit Ltr Se	34 26N 3W	Rio Arriba			
Corrido NO. <u>162928</u> Property Corrido	de <u>21928</u> API NO. <u>30 - 03</u>	Spaci	County ng Unit Lease Types: (check 1 or more) _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	Blanco MV 72319		NE Ojito GL-DK 48025			
2. Top and Bottom of Pay Section (Perforations)	6210 - 6336'		7345 - 8109'			
3. Type of production (Oil or Gas)	Gas		0i1			
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing			
5. Bottomhole Pressure	a. (Current)	a.	a.			
Oil Zones - Artificial Lift: Estimated Current	Not Completed		770 Calc			
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Original) 1008 Est. * Jicarilla 117E #7A	b.	^{ь.} 1146 Calc.			
6. Oil Gravity (⁰ API) or Gas BTU Content)	1230 BTU Est.		47 Degrees API			
7. Producing or Shut-In?	Not Completed		Producing			
Production Marginal? (yes or no)	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:	Date:	Date: 4/1/99			
(within 60 days)	Rates: Not Completed	Rates:	Rates: 2/11/0			
8. Fixed Percentage Allocation Formula -% for each zone	^{Oil: Gas:} See ^{% Gas:} Attached [%]	Oil: Gas: %	^{Oil: Gas:} See [%] Attached [%]			
9. If allocation formula is based	upon something other than curr	rent or past production, or is	based upon some other method, ojections or other required data.			
	•		<u>X</u> Yes <u>No</u> Yes <u>No</u> XYes <u>No</u>			
11. Will cross-flow occur? <u>Yes X</u> 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 reliable. <u>Yes Mo</u> (If No, attach explanation)						
12. Are all produced fluids from all commingled zones compatible with each other? <u>X</u> Yes <u>No</u>						
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. X Yes No						
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).						
 16. 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 all offset operators. * Notification list of working, overriding, and royalty interests for uncommon interest cases. * Any additional statements, plata, or documents required to support commingling. 						
I hereby certify that the information a		-	1 (
SIGNATURE _ / _ (My 1/0-]		TITLE <u>Prod. Superintende</u>	<u>nt</u> DATE <u>5/24/9</u> ?			
TYPE OR PRINT NAME Gary W. E	Brink	TELEPHONE NO.	(505) 325-6800			

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artenia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088

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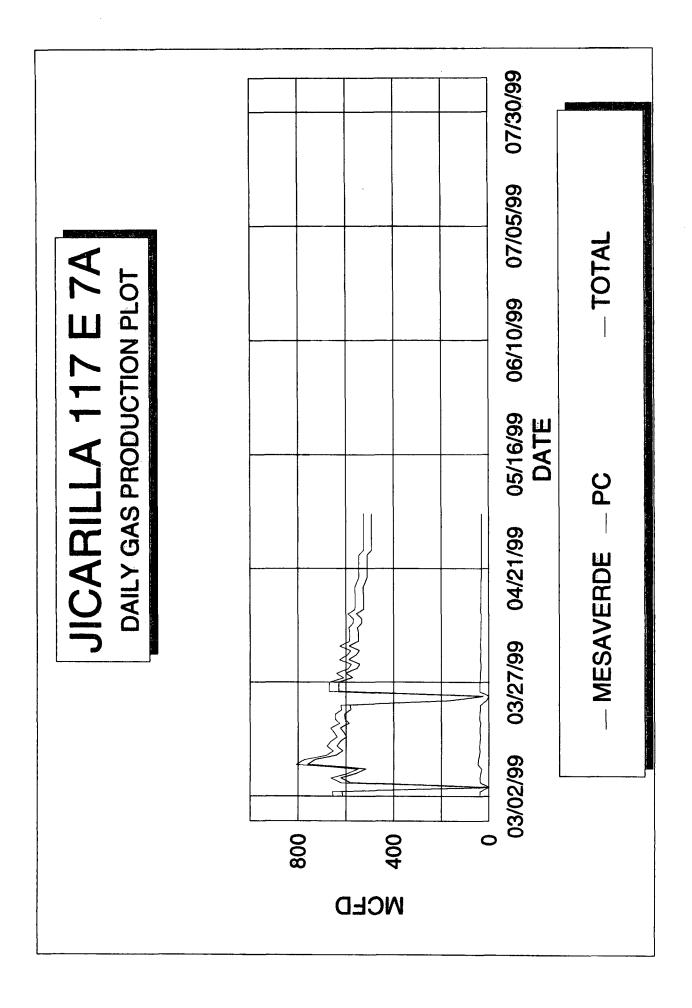
State of New Mexico Energy, Minerals & Natural Resources Department

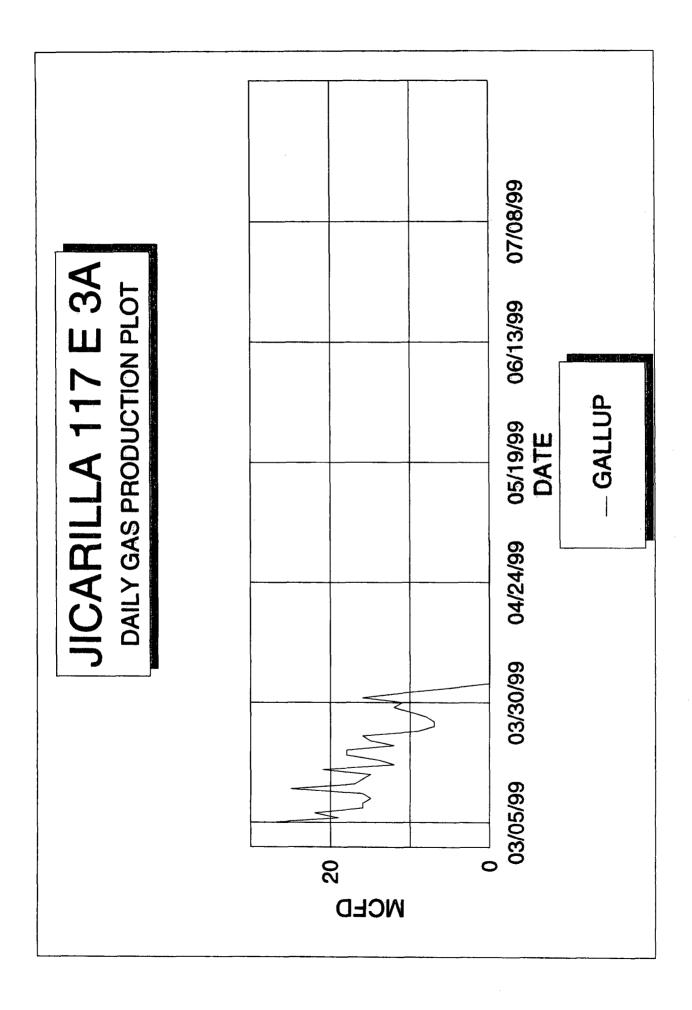
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

·						CREAGE DED					
1	I Numbe		<pre>'Pool Code 'Pool Name 72319/48025 Blanco MV/NE Ojito Gallup-Dakota</pre>			1					
30-039		4	1251	.9/4002							
* Property Co	de		* Property Name JICARILLA 117E * Well Number 3A						• Well Number 3A		
'OGRID No 162928	•	<u> </u>				NOT NAME PLORATION U.S	.A., Inc.		* Elevation 7475		
102920					¹⁰ Surfac	ce Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West I	ine County		
E	34	26N	ЗW	ł	1700	NORTH	800	WEST	r nio arriba		
, L		_ _	¹¹ Bot	tom Ho	le Location	If Different Fi	rom Surface	_ _			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West L	ine County		
Dedicated Acres) Joint c	or Infill 14 C	Consolidatio	n Code 13	Order No.	<u> </u>			<u>-</u>		
NO ALLOWA	BLE V					TION UNTIL ALL BEEN APPROVEI			N CONSOLIDATED		
							I hereby cert Irue and con Signature Garv W Printed Nam Printed Nam Produc Title 7/13/90 Date 18SURV I hereby cert was plotted fi or under my correct to the Date of Surve	ify that the infor applete to the best Brink Bri	OR CERTIFICATION the information contained herein is the best of my knowledge and belief ink superintendent OR CERTIFICATION the well location shown on this plat in notes of actual surveys made by me tion, and that the same is true and my belief. 0–98 Professional Surveyer: ROADHURS		
<u> </u>			5280	.0'				APOFESSI	JHWAL-		



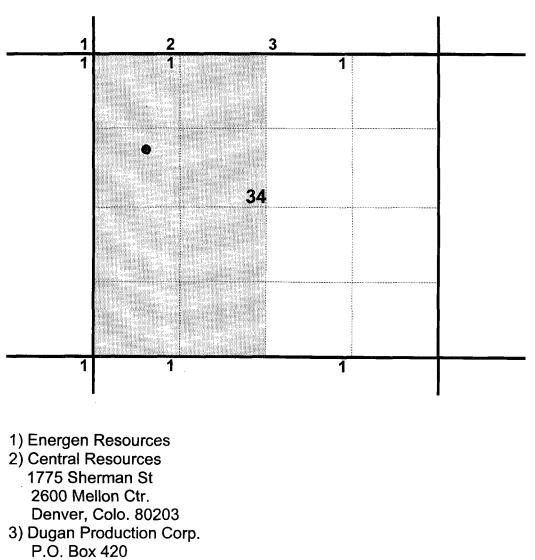


Energen Resources Corp.

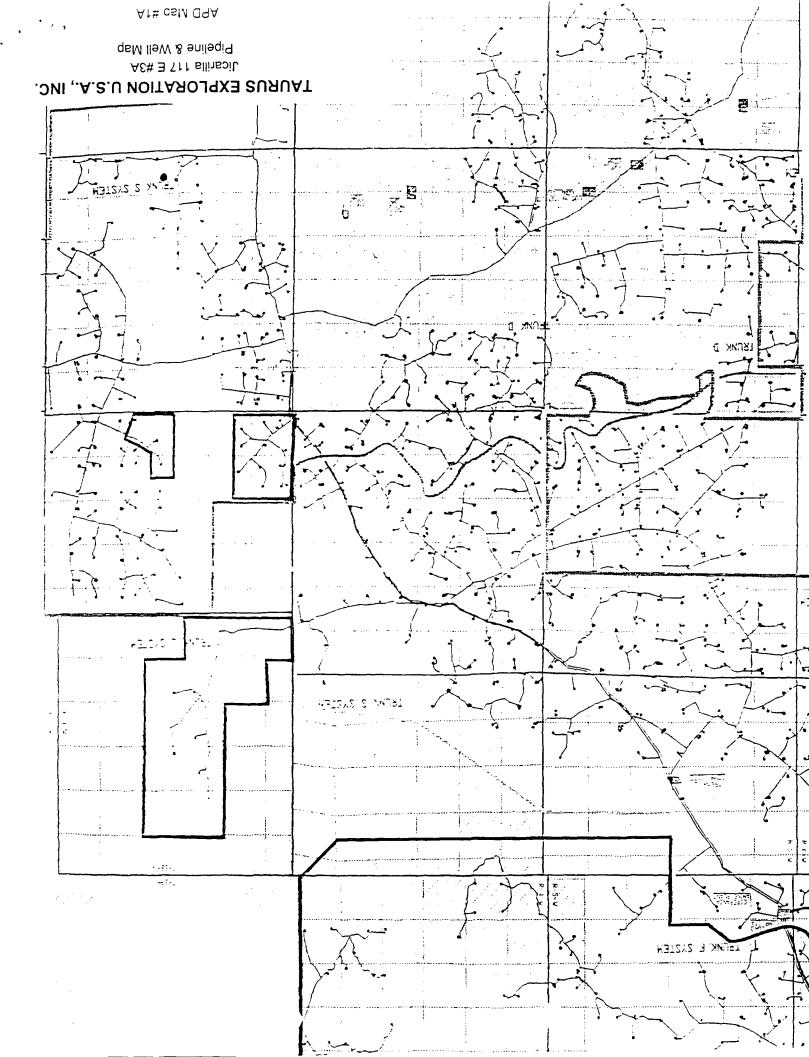
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Jicarilla 117E #3A Offset Operator / Ownership Plat Blanco Mesa Verde/ NE Ojito Gallup Dakota Downhole Commingling

Township 26 N, Range 3 W



Farmington, N.M. 87401



Jicarilla 117E #3A

Proposed Allocation Method

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Produce total well stream for 30 days following Mesa Verde pay add Pay Add projected to add 400 MCFD to Mesa Verde flow stream

Total Stream = X Gallup/Dakota Stabilized rate = 11 MCFD

GL/DK Allocation = 11/X as a percentage

MV Allocation = (X-11)/X as a percentage

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

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



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC NM 87410 (505) 334-6178 FAX: (505) 334-6170 http://emnrd.state.nm.us/ocd/District.III/3distric.htm

DHC-2360

Jennifer A. Salisbury Cabinet Secretary

GARY E. JOHNSON Governor

February 3, 2000

Mr. Gary Brink Energen Resources 2198 Blmfld Hwy Farmington NM 87401

Re: Jicarilla 117E #3A, API# 30-039-25964, O-34-26N-03W, DHC

Dear Mr. Brink:

Your recommended allocation of commingled production for the referenced well is hereby accepted as follows:

	Gas	Oil
Mesaverde	91%	44%
Gallup-Dakota	9%	56%

Sincerely,

Frank T. Chavez District Supervisor

FTC/mk

cc: Jim Lovato, Farmington BLM Mark Ashley, NMOCD Santa Fe Well File