		·	F C 107	
District I 625 N. French Drive, Hobbs, NM 88240	State of N Energy, Minerals and Na	Form C-107 Revised June 10, 200		
District II	Energy, winterars and Na	Revised June 10, 200		
301 W. Grand Avenue, Artesia, NM 88210	Oil Conser	rvation Division	APPLICATION TYP	
District III		th St. Francis Dr.	<u>X</u> Single	
Well				
000 Rio Brazos Road, Aztec, NM 87410	Santa Fe, N	lew Mexico 87505	Establish Pre-Approved Pool	
District IV			EXISTING WELLBOR	
220 S. St. Francis Dr., Santa Fe, NM 87505	APPLICATION FOR DO	WNHOLE COMMINGLING	<u>X</u> Yes No	
Energen Resources	2198 Bloomfield H	lighway, Farmington, New Mexico 87401	24)	
Dperator		dress MC-310		
San Juan 30-4 Unit	44 D Section 2	0, T30 <del>N, R4W_N.M.P</del> .M	Rio Arriaba	
Lease		Section-Township-Range	County	
162928 CRID No. Bronorty Co.	21994 30-039 da ABUNA		X Fadaral State Fee	
OGRID No Property Co	de API No/	Lease Type:	FederalStateFee	
DATA ELEMENT	UPPER,ZONE	INTERMEDIATE ZONE	LOWER ZONE	
	East Blanco Pictured Cliffs	N/A	Blanco Mesa Verde	
Pool Name				
Rool Code	72400 🗸	N/A	72319	
Pool Code	4,204' to 4,442'	N/A	6,306' to 6,800'	
Top and Bottom of Pay Section				
(Perforated or Open-Hole Interval)				
Method of Production	Artificial Lift - Plunger	N/A	Artificial Lift - Plunger	
(Flowing or Artificial Lift)				
Bottomhole Pressure	N/A within 150%	N/A	N/A within 150%	
(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)				
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1,027 BTU	N/A	1,056 BTU	
Producing, Shut-In or	Producing	N/A	Producing	
New Zone			45	
Date and Oil/Gas/Water Rates of	22	]	500 PLOTS Date: 6/12/2005	
Last Production. (Note: For new zones with no production history,	Date: 6/12/2005	Date: N/A	Date: 6/12/2005	
applicant shall be required to attach production	Ser			
estimates and supporting data.)	Rates: 0 BOPD/182	Rates: N/A	Rates: 0 BOPD/ 293	
	MCFPD/1.5 BWPD		MCFPD/1.5 BWPD	
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil N/A Gas N/A	Oil Gas	
than current or past production, supporting data or	0.0/ 50.0/	% %	100 % 50 %	
explanation will be required.)	0 % 50 %	/0 /0	100 / 0 50 / 0	

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?	YesX Yes	No No
Are all produced fluids from all commingled zones compatible with each other?	Yes_ <u>X</u>	No
Will commingling decrease the value of production?	Yes	No_X
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 <u>X</u>	No
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 pove is true and complete to the best of my knowledge and belief.

SIGNATURE	District EngineerDATE0/14/2005
TYPE OR PRINT NAME <u>Patricio W. Sanchez</u>	TELEPHONE NO. ( <u>505</u> ) <u>325-6800</u>
E-MAIL ADDRESS <u>psanchez@energen.com</u>	



June 14, 2005

Mr. Mark E. Fesmire, P.E. - Director New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Administrative Approval to Downhole Commingle Energen Resources Corporation San Juan 30-4 Unit #44 1,095' FNL, 75' FWL, Section 20, T30N, R4W, NMPM Rio Arriba County, New Mexico

Dear Mr. Fesmire:

Energen Resources Corporation requests administrative approval to downhole commingle the East Blanco Pictured Cliffs (PC) and Blanco Mesa Verde (MV) pools in the subject well. Due to the liquid loading problems commingling with plunger lift is the most economical method to recover gas from both zones in the subject well. We have successfully applied this method along with plunger lift in similar wells that have experienced liquid loading problems and it is felt this method would improve the overall producing efficiency of the well.

To comply with New Mexico Oil Conservation Rules, Energen Resources Corporation is submitting the following data for your approval of the proposed commingling.

- 1. C-107A Application for Downhole Commingling
- 2. C-102 Location plat showing each spacing unit and dedicated acreage
- 3. Offset Operator Ownership Plat
- 4. Production curves from the current well dually completed in the PC& MV.
- 5. Allocation method

In accordance to New Mexico Oil Conservation Division Rule 303C, Energen Resources operates all offset proration units.

If additional information is needed, please contact me at 505-325-6800.

Sincerely.

Patricio W. Sanchez District Engineer

xc:

NMOCD – Aztec District Office BLM- FFO notified via Federal Sundry Notice 3160-5 and sent NMOCD form C-107A 1625 N. French Dr., Hobbs, NM 88240 <u>District\_II</u> 1301 W. Grand Avenue, Artesia, NM 88210 <u>District III</u> f000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u>

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

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

Revised June 10, 2003 Submit to Appropriate District Office State Lease - 4 Copics Fee Lease - 3 Copics

## AMENDED REPORT

Form C-102

## WELL LOCATION AND ACREAGE DEDICATION PLAT

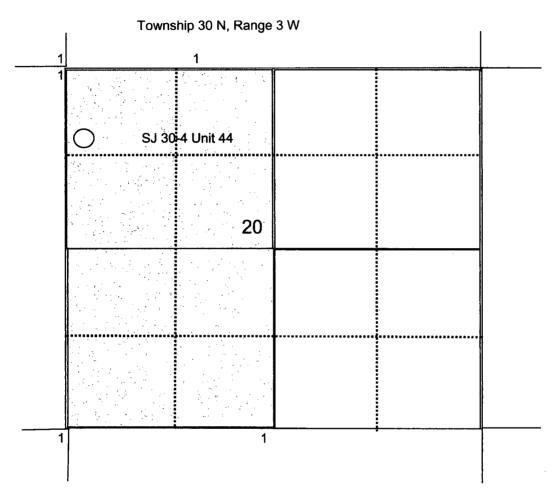
	'API Number         'Pool Code         'Pool Name           30-039-26320         72400/72319         East Blanco Pictured Cliffs/Blanco Mesa Veri									
<sup>4</sup> Property 0 21994	Code	<sup>5</sup> Pro				roperty Name **			Vell Number 44	
<sup>7</sup> OGRID 162928	No.	° Ope				an Juan Unit perator Name esources Corporation			* Elevation 7,460'	
	<u> </u>				<sup>10</sup> Surface	-		<b>I</b>		
UL or lot no.	Section	Township	Range	Let Idn	Feet from the	North/South line	Feet from the	East/West line	County	
D	20	30N	4W		1095	North	75	West	Rio Arriba	
L	•		<sup>11</sup> Bc	ottom Ho	le Location If	Different From	n Surface	<b>/</b>	·····	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acres 160/320	s <sup>13</sup> Joint of	Infill "C	onsolidation	Code <sup>15</sup> Ord	der No.		I			

#### 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

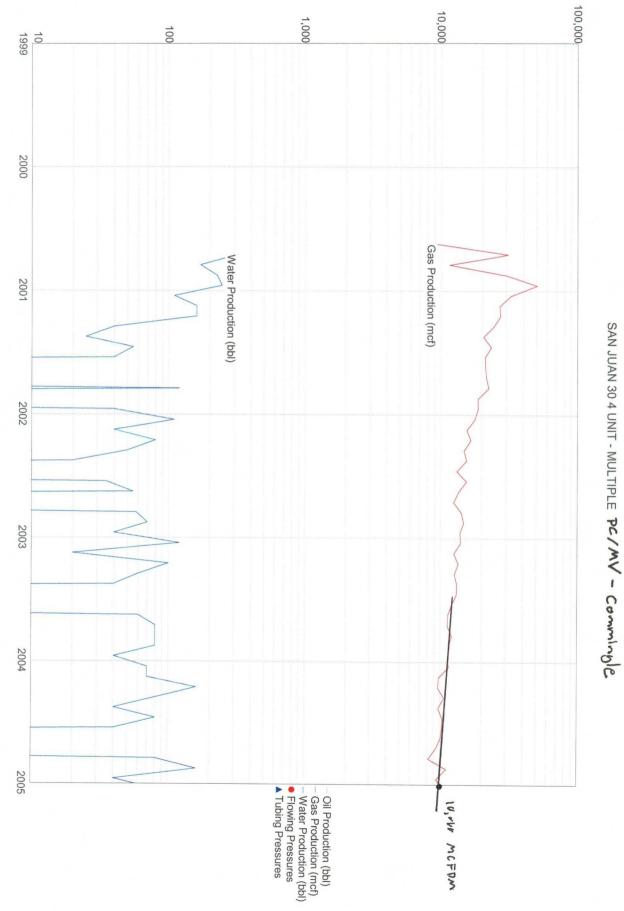
	<ul> <li>made by me or under my supervision, and that the same is true and correct to the best of my belief.</li> <li>November 18, 1999</li> <li>Date of Survey</li> <li>Signature and Seal of Professional Surveyor:</li> <li>Neale C. Edwards</li> </ul>
	<sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys
	Patricio W. Sanchez         Printed Name         District Engineer psanchez@energen.com         Title and E-mail Address         June 14, 2005         Date
16 1,095' <del>50</del> 75'	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

• District 1

Energen Resources Corp. San Juan 30-4 Unit 44 Offset Operator/ Ownership Plat East Blanco Pictured Cliffs/ Blanco Mesa Verde Downhole Commingling



1) Energen Resources

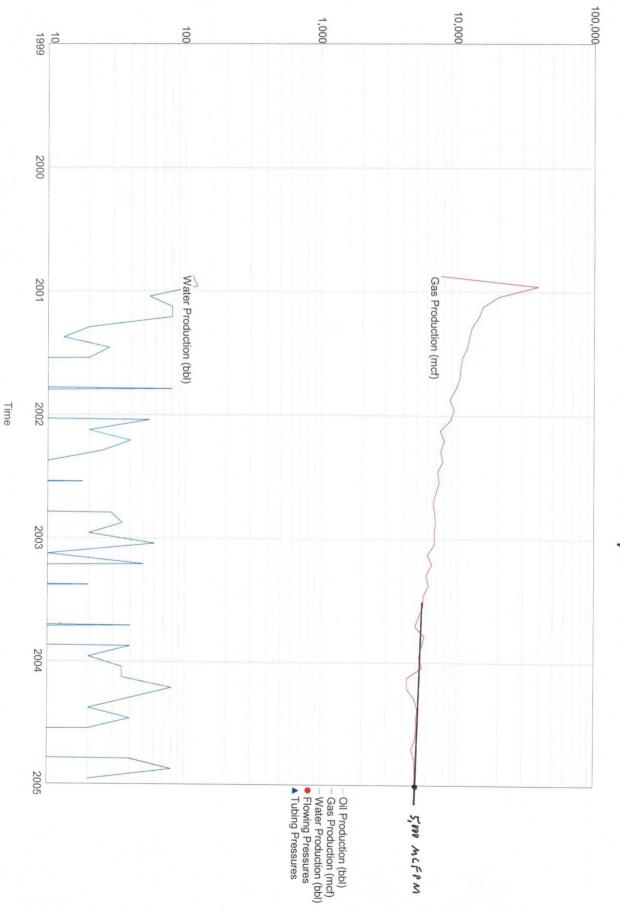


Time

Production Rates

Lease Name: SAN JUAN 30 4 UNIT County, State: RIO ARBA, NM Operator: ENERGEN RESOURCES CORPORATION Field: MULTIPLE

Reservoir: MULTIPLE Location:



SAN JUAN 30 4 UNIT - BLANCO EAST - PC

Lease Name: SAN JUAN 30 4 UNIT County, State: RIO ARBA, NM Operator: ENERGEN RESOURCES CORPORATION Field: BLANCO EAST Reservoir: PICTURED CLIFFS Location: 20 30N 4W SW NW NW

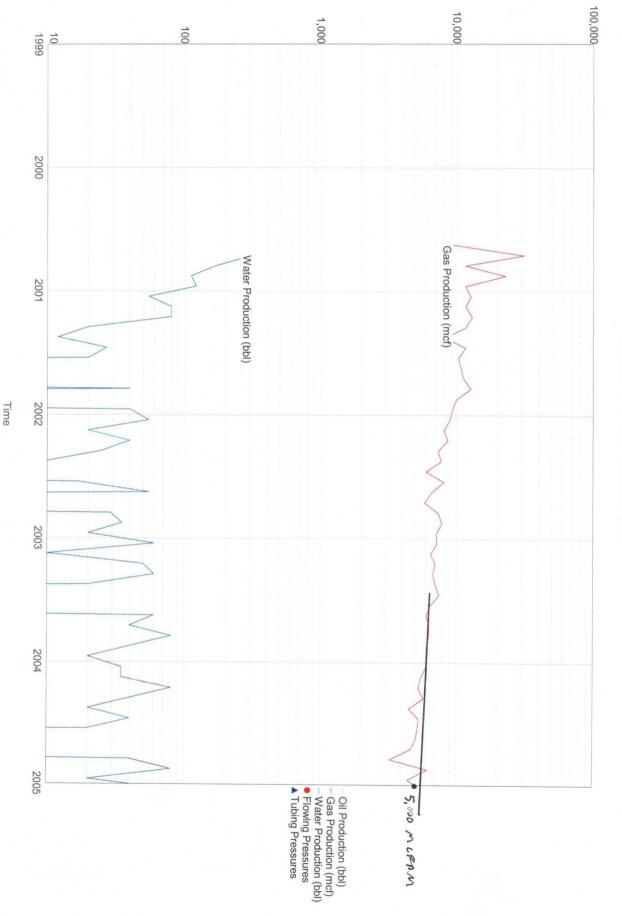
..

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Lease Name: SAN JUAN 30 4 UNIT County, State: RIO ARBA, NM Operator: ENERGEN RESOURCES CORPORATION Field: BLANCO Reservoir: LEWIS-MESAVERDE Location: 20 30N 4W SW NW NW

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SAN JUAN 30 4 UNIT - BLANCO - MV



# **Recommended Allocation Method**

- 1. MIRU and POOH with tubing strings and packer.
- 2. Clean out casing to PBTD.
- 3. TIH w/ 2-3/8" production tubing to Mesa Verde Mid-perforations or there about.
- 4. Swab well in and place on plunger lift.
- 5. Based on historical production allocation for gas is 50% Pictured Cliffs and 50% Mesa Verde. Oil will be allocated 100% to Mesa Verde should the well begin to make oil based on area knowledge.

Note: gas production has stabilized and shows a 50/50 contribution in terms of gas rate – see enclosed production graphs.

DSem05/7/337	194
DATE IN SUSPENSE ENGINEER MLS LOGGED IN TYPE DAD APP NO.	
ABOVE THIS LINE FOR DIVISION USE ONLY	
NEW MEXICO OIL CONSERVATION DIVISION	Co :
- Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505	
ADMINISTRATIVE APPLICATION CHECKLIST	
THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	
Application Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]	,
[1] <b>TYPE OF APPLICATION</b> - Check Those Which Apply for [A]	
[A] Location - Spacing Unit - Simultaneous Dedication	
Check One Only for [B] or [C] [B] Commingling - Storage - Measurement M DHC CTB PLC PC OLS OLM	
[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery	
[D] Other: Specify	
2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Uvrking, 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 or Publication is Attached, and/or,	
[F] Uaivers are Attached	
3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE	

## OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Milling <u>District Engineer</u> <u>C-14-2005</u> <u>Title</u> <u>Psomchizeenergen.com</u> <u>e-mail Address</u> Patriciu W. Sanchez Print or Type Name Signature