	I	PTGW
DATE IN	1.24,12 SUSPEN	ASE ENGINEER DY J LOGGED IN TYPE DHC APP NO 202449968
		ABOVE THIS LINE FOR DIVISION USE ONLY 4507
		NEW MEXICO OIL CONSERVATION DIVISION
		- Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
		1220 South St. Francis Drive, Santa Fe, NM 87505
		ADMINISTRATIVE APPLICATION CHECKLIST 30-039-27876
Т	HIS CHECKLIST IS N	IANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applie	cation Acronym	16:
	[DHC-Dow	ndard Location] [NSP-Non-Standard Proration Uni q [SD-Simultaneous Dedication] nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
	[PC-P	ool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
	FOR-Qua	[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] Ilified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
613	-	$\mathbf{P} \mathbf{I} \mathbf{C} \mathbf{A}^{T} \mathbf{O} \mathbf{N} \mathbf{C} \mathbf{h} = \mathbf{h} \mathbf{h} \mathbf{h} \mathbf{h} \mathbf{h} \mathbf{h} \mathbf{h} \mathbf{h}$
[1]	[A]	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication
		PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD NSL T - 15 77W T - 15 77W
		c One Only for [B] or [C]
	[B]	Commingling - Storage - Measurement
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
	[0]	WFX PMX SWD PIPI BOR PPR
	[D]	Other: Specify
[2]	NOTIFICAT	ION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
[4]	[A]	Working, Royalty or Overriding Royalty Interest Owners
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	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]	Waivers are Attached
[3]	_	CURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE
[-]		ATION 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 dompleted by an individual with managerial and/or supervisory capacity.

Print or Type Name Signature

Aistrict Éngineer 1/19/12 Title Date <u>a Klem @ energen.com</u> e-mail Address

January 20, 2012

Ms. Jami Bailey - Director New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Approval to Downhole Commingle Energen Resources Corporation Jicarilla 89 #3A 1650' FSL, 1120' FEL, Section 15, T27N, R03W Rio Arriba County, New Mexico

Dear Ms. Bailey:

Energen Resources Corporation requests approval to downhole commingle the Gavilan Pictured Cliffs and Blanco Mesaverde pools in the subject well. Due to the liquid loading problems commingling with plunger lift is the most economical method to recover gas from all 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. Allocation method

In accordance to New Mexico Oil Conservation Division Rule 303C, Energen Resources will notify all Offset operators.

If additional information is needed, please contact me at 505-324-4163.

Sincerely,

Adam Klem District Engineer

xc:

NMOCD – Aztec District Office BLM- FFO notified via Federal Sundry Notice 3160-5 and sent NMOCD form C-107A District I

District II

1301 W. Grand Avenue, Artesia, NM 88210

Hobbs, NM 88240

District III

Well 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

APPLICATION TYPE

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

<u>X</u>Single Establish Pre-Approved Pools

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

Energen Resources			2010 Afton Place, Farmington, New Mexico 87401						
Operator Jicarilla 89		#3A	Address I Section 15, T27N, R3W	Da		Rio Arriba			
Lease		Well No.	Unit Letter-Section-Townshi	p-Range		County			
OGRID No.	162928	21936 Property Code	30-039-22876 API No	X Lease Type:	Federal	State	Fee		

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE	
	Gavilan Pictured Cliffs	e	Blanco Mésaverde	
Pool Name				
Pool Code	77360		72319	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3824'-3850'		5614'-6132'	
Method of Production (Flowing or Artificial Lift)	Artificial Lift - Plunger		Artificial Lift – Plunger	
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the	Not completed		1,000 psi OK	
depth of the top perforation in the upper zone)				
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1,341 BTU	· · · · · · · · · · · · · · · · · · ·	1,341 BTU	
Producing, Shut-In or New Zone	New Zone	· · · · · · · · · · · · · · · · · · ·	Producing	
Date and Oil/Gas/Water Rates of			· · · · · · · · · · · · · · · · · · ·	
Last Production. (Note: For new zones with no production history,	Date: N/A	Date:	Date: 12/2011	
applicant shall be required to attach production estimates and supporting data.)	Rates: N/A	Rates:	Rates: 0 BOPD/ 40 MCFPD/0.15 BWPD	
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas	
than current or past production, supporting data or explanation will be required.)	N/A N/A	Turm in Later	<u> </u>	

ADDITIONAL DATA

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?	YesXNo YesNo
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_ <u>X</u>
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 above is	true and complete to the	e best of my knowledge and belief.
-----------------------	--------------------------	--------------------------	------------------------------------

TITLE District Engineer

__DATE___<u>1/12/12</u>_

TYPE OR PRINT NAME <u>Adam Klem</u>

_TELEPHONE NO. (<u>505</u>) <u>324-4163</u>

E-MAIL ADDRESS __aklem@energen.com

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 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

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number				² Pool Code	e	³ Pool Name				
30	5		72319		Blanco Mesaverde					
⁴ Property	Code			⁵ Property Name ⁶ Well 1						
21936	1				Jicarilla	89			3A	
'OGRID	No.				⁸ Operator 1	Name			° Elevation	
162928	;			Energen Resources Corporation					7064'	
					¹⁰ Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
I	15	27N	3W .		1650	South	1120	East	Rio Arriba	
<u></u>	I	I	¹¹ Bot	ttom Hol	e Location If	Different From	m Surface	I	·	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
¹² Dedicated Acres 320	s ¹³ Joint of	r Infill ¹⁴ Co	onsolidation	Code ¹⁵ Or	der No.					

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.

		¹⁷ OPERATOR CERTIFICATION
•		I hereby certify that the information contained herein is true and complete to the
		best of my knowledge and belief, and that this organization either owns a
		working interest or unleased mineral interest in the land including the proposed
· ·		bottom hole location or has a right to drill this well at this location pursuant to
		a contract with an owner of such a mineral or working interest, or to a
		voluntary pooling agreement or a compulsory pooling order heretofore entered
 		by the division.
		1/11/2012
		Signature Date
		Adam Klem
		Princi Name
		
15		
1 <i>J</i>		1801 DATENOD OF DETEROATION
		¹⁸ SURVEYOR CERTIFICATION
		I hereby certify that the well location shown on this plat was
	1120'	plotted from field notes of actual surveys made by me or under
		my supervision, and that the same is true and correct to the
1	\bigcirc	best of my belief.
		Date of Survey
		Signature and Seal of Professional Surveyor:
	650'	
	10	
		Certificate Number
	V	

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesla, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

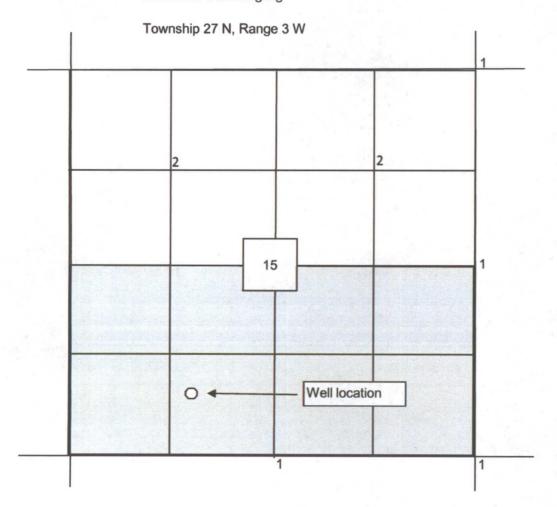
¹ API Number 30-039-22876				² Pool Code	e	³ Pool Name					
3	5		77360			Gavilan Picture	d Cliffs				
⁴ Property	Code				⁵ Property !	Name		• V	Vell Number		
21936	·				Jicarilla	89			3A		
⁷ OGRID	No.		<u>,</u>	⁸ Operator Name					* Elevation		
162928	3			Energen Resources Corporation					.7064'		
·	`			•	¹⁰ Surface	Location		.			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
I	15	27N	3W		1650	South	1120	East	Rio Arriba		
	I		¹¹ Bo	ttom Hol	e Location If	Different Fro	m Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
¹² Dedicated Acre 160	s ¹³ Joint of	r Infili ¹⁴ C	onsolidation	Code ¹⁵ Or	der No.			l.			

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.

				¹⁷ OPERATOR CERTIFICATION
				I hereby certify that the information contained herein is true and complete to the
				best of my knowledge and belief, and that this organization either owns a
				working interest or unleased mineral interest in the land including the proposed
				bottom hole location or has a right to drill this well at this location pursuant to
				a contract with an owner of such a mineral or working interest, or to a
				voluntary pooling agreement or a compulsory pooling order heretofore entered
				by the division.
				1/12/2012
			E	Signature Date
				Adam Klem
				Printed Name
		-		
	15			
	IJ			18SUDVEVOD CEDTIELCATION
	L	[¹⁸ SURVEYOR CERTIFICATION
				I hereby certify that the well location shown on this plat was
· .			1120'	plotted from field notes of actual surveys made by me or under
			1120	my supervision, and that the same is true and correct to the
	1		\bigcirc \longleftarrow	best of my belief.
			▲	
				Date of Survey
. •				
				Signature and Seal of Professional Surveyor:
			650'	
			16	
			Ţ	Certificate Number
			V	

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Energen Resources Corp. Jicarilla 89 #3A Offset Operator/ Ownership Plat Blanco Mesaverde/Gavilan Picured Cliffs Downhole Commingling



Energen Resources
ConocoPhillips

Allocation Method: Jicarilla 89 #3A

Energen Resources plans on DHC the Blanco Mesaverde with the Gavilan Pictured Cliffs

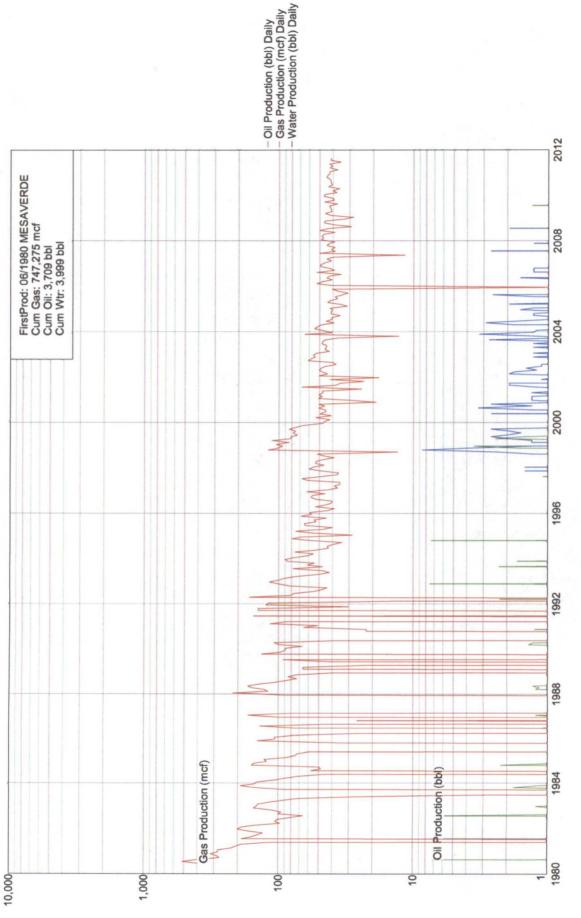
Gavilan Pictured Cliff perforations: 3824'-3850' Blanco Mesaverde: 5614'-6132'

Current rates: PC – not yet completed MV - .11 BOPD, 40 MCFD, & .15 BWPD

Recommended Allocation: Subtraction method following 60 days of stabilized production. Rates reported to NMOCD – Aztec for final determination.

Lease Name: JICARILLA 107 County, State: RIO ARBA, NM Operator: ENERGEN RESOURCES CORPORATION Field: BLANCO Reservoir: MESAVERDE Location: 33 26N 4W NW SE NW

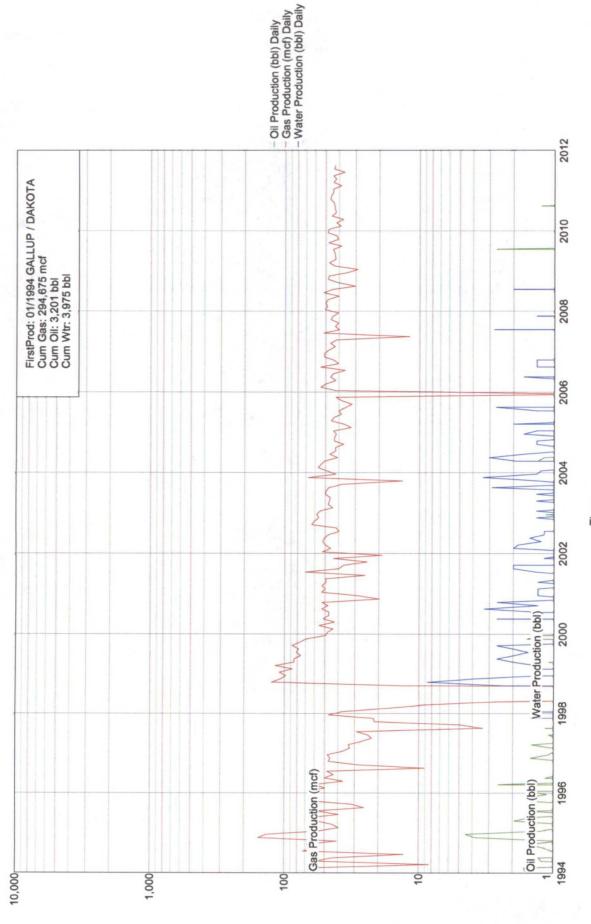
JICARILLA 107 - 5



Time

Lease Name: JICARILLA 107 County, State: RIO ARBA, NM Operator: ENERGEN RESOURCES CORPORATION Field: LINDRITH WEST Reservoir: GALLUP DAKOTA Location: 33 26N 4W NW SE NW

JICARILLA 107 - 5



Time