r				7/60	<u>~</u>
DATE IN	1,24,12 SUSPENS	E ENGINEER WVJ LOGG	EDIN 1, 24.12 MARE DA	APPINO./202	
		ABOVÉ THIS LINE	FOR DIVISION USE ONLY	5 5/	162928
]	NEW MEXICO OIL CONSEI		EN	ergen #1138
		- Engineering B			:#= .
	<u> </u>	1220 South St. Francis Drive, S	oanta Fe, NM 8/505	Jicari	1145 7B
		ADMINISTRATIVE AP	PLICATION CHI	ECKLIST 30	<u>-039-26859</u>
TH	HIS CHECKLIST IS MA	NDATORY FOR ALL ADMINISTRATIVE APP WHICH REQUIRE PROCESSING			EGULATIONS
Applic	[DHC-Down PC-Po	dard Location] [NSP-Non-Standa	Commingling [PLC-Pose Storage] [OLM-Off-L MX-Pressure Maintenance [PL-Injection Pressure It	ooi/Lease Commingl ease Measurement] se Expansion]	ing]
F4.7	_		1 4 1 6 541	•	$\sim 01-300$
[1]	[A]	PLICATION - Check Those Whic Location - Spacing Unit - Simulta NSL NSP SD	th Apply for [A] uneous Dedication	E-36-6	37 N-3W
	Check	One Only for [B] or [C]		/	
	[B]	Commingling - Storage - Measure DHC CTB PLC		OLM	
	[C]	Injection - Disposal - Pressure Inc		overy PPR	
	[D]	Other: Specify	·		
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Check Th Working, Royalty or Overrid	A A .		
	[B]	Offset Operators, Leaseholde	ers or Surface Owner		
	[C]	Application is One Which Ro	equires Published Legal N	otice	
	[D]	Notification and/or Concurre U.S. Bureau of Land Management - Commiss	nt Approval by BLM or S sioner of Public Lands, State Land Offic	LO _e	
	[E]	For all of the above, Proof of	Notification or Publication	n is Attached, and/or	,
	[F]	Waivers are Attached			
[3]		CURATE AND COMPLETE INF TION INDICATED ABOVE.	FORMATION REQUIR	ED TO PROCESS T	ГНЕ ТҮРЕ
	al is accurate an ation until the rec	TON: I hereby certify that the info d complete to the best of my know uired information and notifications	ledge. I also understand t are submitted to the Divis	hat no action will be sion.	
. 1	Note:	Statement must be completed by an indi	^		
Adam	1 Klem		Vistrica	Engineer	1/19/12
Print or	Type Name	Signature	Title AK/rm	Deneigen con	Date
			e-mail Addre	ss	

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 95 #7B 1830' FNL, 1720' FWL, Section 36, 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

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

Well

1301 W. Grand Aven

District III

District IV

SIGNATURE

TYPE OR PRINT NAME Adam Klem

E-MAIL ADDRESS__aklem@energen.com

Oil Conservation Division

1220 South St. Francis Dr.

APPLICATION TYPE __X_Single

Santa Fe, New Mexico 87505

Establish Pre-Approved Pools

EXISTING WELLBORE

1220 S. St. Francis Dr., Santa Fe, NM 87505	APPLICATION FOR DO	WNHOLE COMMINGLING	<u>X</u> YesNo				
Energen Resources	2010 Afton Place,	Farmington, New Mexico 87401	508				
Operator Iicarilla 95	#7B F Section 36,	Rio Arriba					
Lease		Section-Township-Range -039-26854 X	County				
OGRID No. Property Co		Lease Type:	FederalStateFee				
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE				
Pool Name	Gavilan Pictured Cliffs (So	·	Blanco Mesaverde				
Pool Code	77360		72319				
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3771'-3791'		5570'-6104'				
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 depth of the top perforation in the upper zone)	Not completed		1,000 psi				
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/ 80 MCFPD/0.5 BWPD				
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Qil Gas				
than current or past production, supporting data or explanation will be required.)	N/A N/A	Tun in Late	r)				
	ADDITION	NAL DATA					
Are all working, royalty and overriding f not, have all working, royalty and over	royalty interests identical in all corerriding royalty interest owners bee	nmingled zones? n notified by certified mail?	YesX No Yes No				
Are all produced fluids from all commingled zones compatible with each other? Yes X No							
Will commingling decrease the value of	f production?		Yes No_ <u>X</u> _				
f 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 X No							
NMOCD Reference Case No. applicable	e to this well:						
Attachments: C-102 for each zone to be comming Production curve for each zone for a For zones with no production histor Data to support allocation method o Notification list of working, royalty Any additional statements, data or described to the committee of t	at least one year. (If not available, y, estimated production rates and so r formula. and overriding royalty interests for	attach explanation.) upporting data. r uncommon interest cases.					
:	PRE-APPRO	VED POOLS					
If application is t	to establish Pre-Approved Pools, th	e following additional information wi	ll be required:				
List of other orders approving downhole List of all operators within the proposed Proof that all operators within the propo- Bottomhole pressure data.	Pre-Approved Pools						
onominoro prossuro data.							

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

TITLE

District Engineer

TELEPHONE NO. (<u>505</u>

DATE <u>1/11/12</u>

<u>District I</u> 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

State of New Mexico Energy, Minerals & Natural Resources Department **OIL CONSERVATION DIVISION** 1220 South St. Francis Dr.

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office

> State Lease - 4 Copies Fee Lease - 3 Copies

District IV					Santa Fe, N	M 87505	*			
1220 S. St. Franci	s Dr., Santa	Fe, NM 87505						AME	NDED REPORT	
		WE	ELL LO	CATIO	N AND ACR	EAGE DEDIC	CATION PLA	ΛT		
1.4	API Number	r		² Pool Code			³ Pool Name			
30	0-039-26854	4 .		72319 Bianco I			Blanco Mesa	esaverde		
⁴ Property (Code				5 Property !	Vame		⁶ Well Number		
21289	1			Jicarilla 95					7B	
OGRID !	No.				8 Operator 1	Name		,	⁹ Elevation	
162928	i.		•	Energen Resources Corporation					7179'	
					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	
F	36	27N	3W		1830	North	1720	West	Rio Arriba	
<u></u>		l	11 Bo	ttom Ho	le Location If	Different From	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 Acres 320	s ¹³ Joint o	r Infill 14 Co	ensolidation	Code 15 Or	rder 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.

	1830'		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 woluntary pooling agreement or a compulsory pooling onler heretofore entered by the divisjon.
1720'	36		1/11/2012 Mediature Date Adam Klern Printed Name
			18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.
·			Signature and Seal of Professional Surveyor: Certificate Number

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

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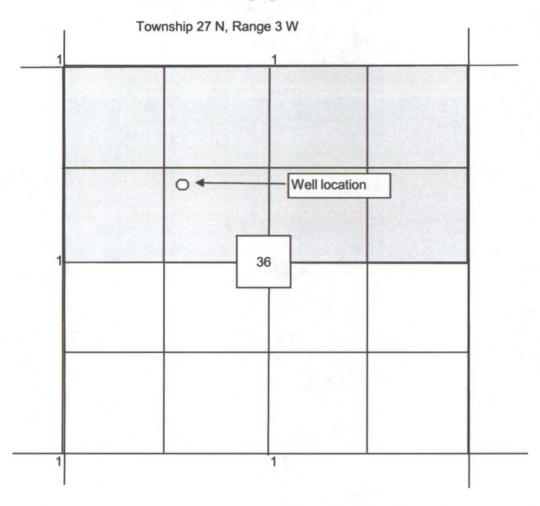
☐ AMENDED REPORT

1	API Numbe	r		¹ Pool Code			³ Pool Nam	ie		
3	4		· · 77360		Gavilan Pictured Cliffs					
⁴ Property	Code			⁵ Property Name				⁶ Well Number		
21289	·			Jicarilla 95				7B		
⁷ OGRID	No.			⁸ Operator Name				⁹ Elevation		
162928	3			Energen Resources Corporation					7179'	
					¹⁰ Surface 1	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
F	36	27N	3W		1830	North	1720	West	Rio Arriba	
···		L	¹¹ Bo	tom Hol	e Location If	Different From	n Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acre	s 13 Joint o	r Infill 14 C	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.

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				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
	830,			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 divisigh.
	Į	i		1/11/2012
	İ			Signature Date
1720				
1720'				Adam Klem Printed Name
· I	į.			<u> </u>
				·
	\longrightarrow 36	j		
				18SURVEYOR CERTIFICATION
	-			I hereby certify that the well location shown on this plat was
				plotted from field notes of actual surveys made by me or under
ľ				my supervision, and that the same is true and correct to the
	. 1			
				best of my belief.
				Date of Survey
				Signature and Seal of Professional Surveyor:
		;		
			·	
	\			
				Certificate Number

Energen Resources Corp.
Jicarilla 95 #7B
Offset Operator/ Ownership Plat
Blanco Mesaverde/Gavilan Picured Cliffs
Downhole Commingling



1) Energen Resources

Allocation Method: Jicarilla 95 #7B

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

Gavilan perforations: 3771'-3791' Blanco Mesaverde: 5570' to 6104'

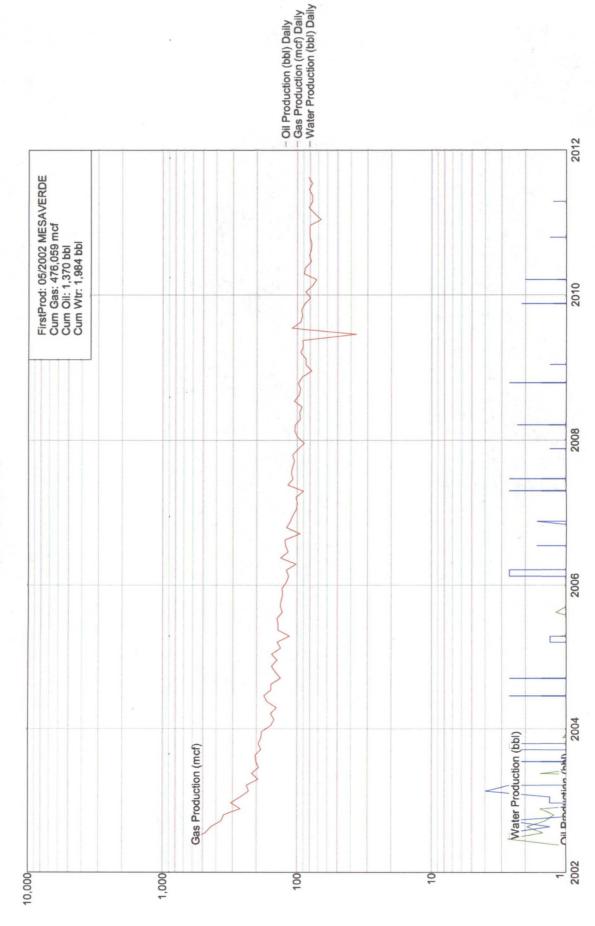
Current rates:

PC – not yet completed MV - 0 BOPD, 80 MCFD, & 0.5 BWPD

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

Lease Name: JICARILLA 95
County, State: RIO ARBA, NM
Operator: ENERGEN RESOURCES CORPORATION
Field: BLANCO
Reservoir: MESAVERDE
Location: 36 27N 3W NW SE NW

JICARILLA 95 - 7B



Production Rates