			070
DATE HA7, 22.11	Suspense	ENGINEER WV Q	1000EF, 072,11

THE 1120346288

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ENERGEN RES. 162928 ET 30-039-26309

Jicarilla 95 #1B

ADMINISTRATIVE ADDITION CONTROLLET 30 224

	THIS COVERSH	EET IS MANDATORY FOR ALL ADMINISTRATIVE	APPLICATIONS FOR EXCEPTIONS	TO DIVISION RULES	AND REGULATIONS
Applic	cation Acronyms	: [NSP-Non-Standard Proration	Unit1 [NSL-Non-Stan	 dard Location	
	[PC-F	[DD-Directional Drilling] winhole Commingling] [CTB-Lea Pool Commingling] [OLS - Off-Lea [WFX-Waterflood Expansion] [SWD-Salt Water Disposal] alified Enhanced Oil Recovery Cea	SD-Simultaneous De use Commingling] [PL usse Storage] [OLM-O [PMX-Pressure Mainten] [PI-Injection Pressur	dication] C-Pool/Lease (Iff-Lease Meas ance Expansio re Increase]	Commingling) urement] n]
[1]	TYPE OF A [A]	PPLICATION - Check Those Location - Spacing Unit - Di	rectional Drilling	,	;
		k One Only for [B] and [C] Commingling - Storage - Me [X] DHC [] CTB		[]OLS	[] OLM
	[C]	Injection - Disposal - Pressu:	•		•
[2]	NOTIFICA' [A]	FION REQUIRED TO: - Che [] Working, Royalty or Over		*	s Not Apply
	[B]	[X] Offset Operators, Lease	holders or Surface Ov	vner	•
	[C]	[] Application is One Which	ch Requires Published	Legal Notice	-
	[D]	[X] Notification and/or Con			
	[E]	[] For all of the above, Pro-	of of Notification or P	ublication is	Attached, and/or,
	[F]	[] Waivers are Attached			
[3]	INFORMAT	ΓΙΟΝ / DATA SUBMITTED	IS COMPLETE - St	atement of U	nderstanding
Reguappro RI, C	lations of the Coval is accurate PRRI) is commo	I, or personnel under my super oil Conservation Division. Fur and complete to the best of my on. I understand that any omiss returned with no action taken	ther, I assert that the a knowledge and wher sion of data, informati	attached appli e applicable,	cation for administrative verify that all interest (WI,
Mart	tín Cabrera	Note: Statement must be compo		ervisory capacity. t Engineer	7/22/11
	or Type Name	Signature	Titl		Date



RECEIVED OCD

2011 JUL 21 A 11:56

July 6, 2011

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

DHC

RE: Approval to Downhole Commingle

Energen Resources Corporation

Jicarilla 95 #1B

1980' FSL, 1900' FEL, Section 35, T27N, R03W, NMPM

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 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

Offset Operator Ownership Plat 3.

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 505-324-4122.

Sincerely

Martín Cabrera **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

Form C-107A Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

Well
1000 Rio Brazos Road, Aztec, NM 87410 District IV

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

TYPE OR PRINT NAME Martín Cabrera

E-MAIL ADDRESS mcabrera@energen.com

Energy, Minerals and Natural Resources Department

Oil Conservation Division

1220 South St. Francis Dr.

APPLICATION TYPE __X_Single

Santa Fe, New Mexico 87505

Establish Pre-Approved Pools

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE _X_ Yes ____No

Energen Resources	2010 Afton Plac	re, Farmington, New Mexico 87401	-4456)		
Operator Jicarilla 95		Address 35, T27N, R3W N.M.P.M	Rio Arriba		
Lease		er-Section-Township-Range	County		
OGRID No Property Co		30-039-26309 X Lease Type:	FederalStateFee		
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	Gavilan Pictured Cliffs	N/A	Blanco Mesaverde		
Pool Code	77630 ·	N/A	72319		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3822'-3964'	· N/A	5627'-6259'		
Method of Production (Flowing or Artificial Lift)	Artificial Lift - Plunger	N/A	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)	W/A WILITIN 150%	N/A	N/A within 150%		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1,341 BTU	N/A	1,341 BTU		
Producing, Shut-In or New Zone	New Zone	N/A	Producing		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: N/A Rates: N/A	Date: N/A Rates: N/A	Date: 07/2011 Rates: 0 BOPD/ 82		
Fixed Allocation Percentage	Oil Gas	Oil N/A Gas N/A	MCFPD/0.4 BWPD Oil Gas		
(Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	0% · N/A	% %	100 % N/A		
- 1	ADDITIO	ONAL DATA			
Are all working, royalty and overriding if not, have all working, royalty and over Are all produced fluids from all commit will commingling decrease the value of	erriding royalty interest owners bungled zones compatible with each	peen notified by certified mail?	YesX No Yes No Yes No Yes No		
f this well is on, or communitized with or the United States Bureau of Land Ma NMOCD Reference Case No. applicable	nagement been notified in writin	the Commissioner of Public Lands ag of this application?	YesX No		
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 support of the	led showing its spacing unit and at least one year. (If not available y, estimated production rates and r formula. and overriding royalty interests	e, attach explanation.) I supporting data. for uncommon interest cases.			
	PRE-APPR	OVED POOLS			
If application is	to establish Pre-Approved Pools,	the following additional information wi	ll be required:		
List of other orders approving downhold List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	Pre-Approved Pools	•			
hereby certify that the information	above is true and complete to	the best of my knowledge and belie	ef.		
SIGNATURE A STATE OF THE STATE	TITLE	District Engineer	DATE 7/06/11		

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

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

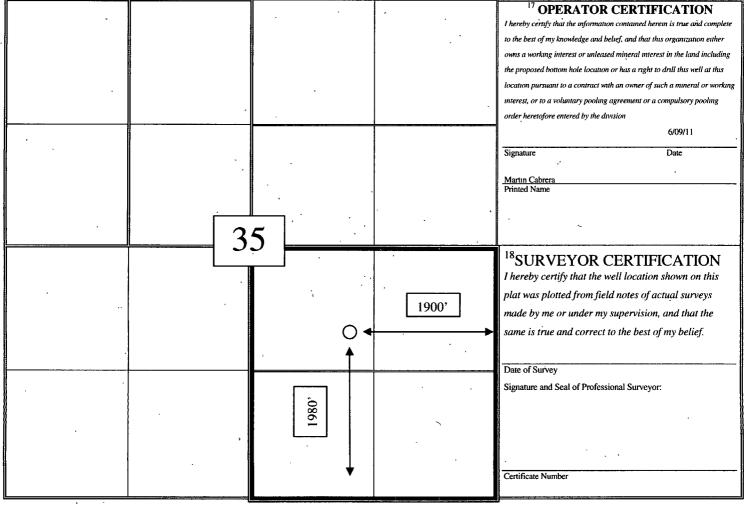
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

¹ API Number 30-039-26309				² Pool Code		ACREAGE DEDICATION PLAT Pool Name				
	,		77360		Gavilan Pictured Cliffs					
⁴ Property Code			⁵ Property Name					6		
		*			Jicarilla	95	••		1B '	
· ⁷ OGRID	No.			8 Operator Name						
162928	3		*		Energen Resources					
					¹⁰ Surface	Location			4	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
J	· 35	27N	3W		1980	South	1900	East	Rio Arriba	
***	., !		11 Bo	ttom Ho	le Location If	Different Fron	n 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	s ¹³ Joint or	Infill 14 C	onsolidation (Code 15 Or	der No.				•	
No allowable livision.	will be ass	igned to th	is complet	ion until al	l interests have l	been consolidated	or a non-standar	d unit has been ap	proved by the	



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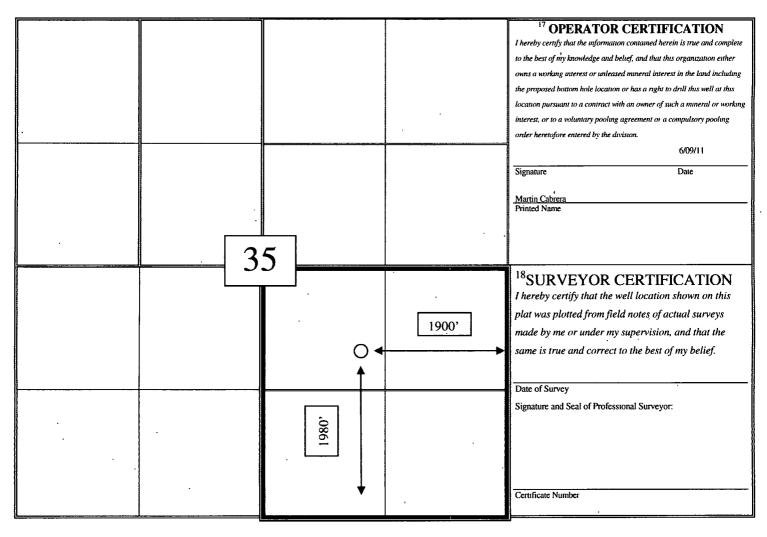
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☐ AMENDED REPORT

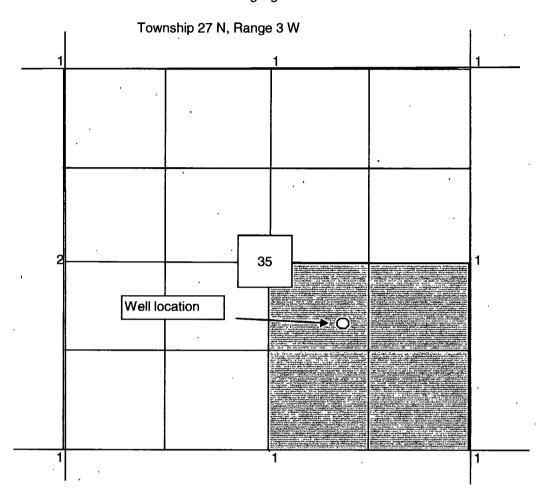
WELL LOCATION AND ACREAGE DEDICATION PLAT

' ^	API Number	Г		² Pool Cod	le	³ Pool Name					
30	-039-2630	9		72319		Blanco Mesaverde					
⁴ Property C	Code	⁵ Property Name							⁶ Well Number		
				Jicarilla 95					, IB		
^{,7} OGRID N	No.				8 Operator	Name	•	⁹ Elevation			
162928					Energen Resources	Corporation		•	7218'		
	•				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		
j	35	27N	3W		1980	South	1900	East	Rio Arriba		
	`	I.	11 Bo	ottom Ho	ole Location I	f Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Idr	Feet from the	North/South line	Feet from the	East/West line	County		
12 Dedicated Acres	13 Joint o	r Infili 14	Consolidation	Code 15 O	order No.			· · · · · · · · · · · · · · · · · · ·			
160											
				i 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.



Energen Resources Corp.
Jicarilla 95 #1B
Offset Operator/ Ownership Plat
Gavilan Pictured Cliffs/ Blanco Mesaverde
Downhole Commingling



- 1) Energen Resources
- 2) WilliamsProduction

Allocation Method: Jicarilla 95 #1B

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

Gavilan Pictured Cliff perforations: 3822' to 3964'

Blanco Mesaverde: 5627' to 6259'

Current rates:

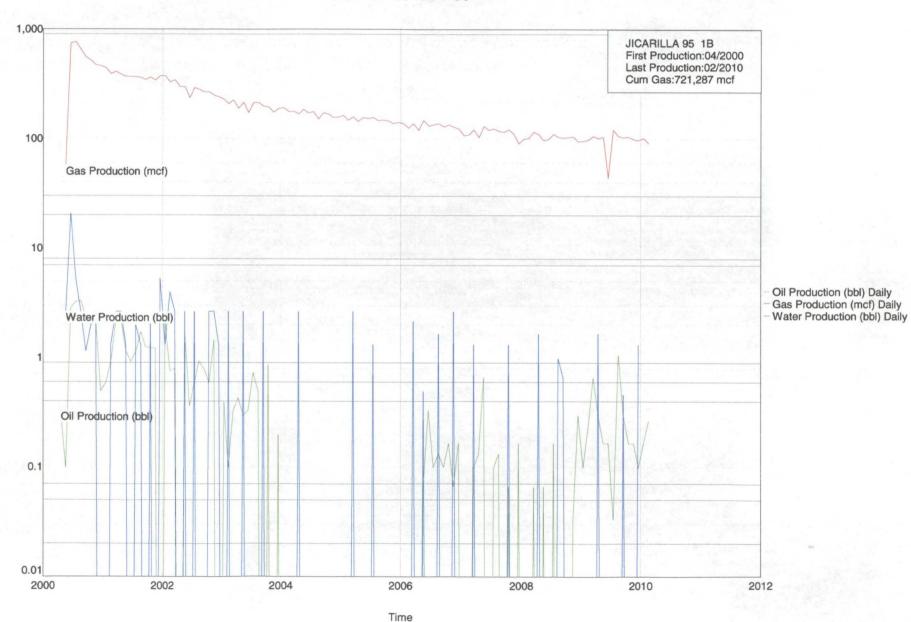
PC – not yet completed WLGD – 0 BOPD, 82 MCFD, & 0.4 BWPD

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: 35 27N 3W NW SE

JICARILLA 95 - BLANCO



Jones, William V., EMNRD

From:

Martin Cabrera [Martin.Cabrera@energen.com]

Sent:

Wednesday, August 24, 2011 12:51 PM

To: Cc: Jones, William V., EMNRD Ezeanyim, Richard, EMNRD

Subject:

RE: DHC Application and Reservoir Pressure

William,

Sorry for the delay. I just got something back from our reservoir engineers.

Gavilan Pictured Cliffs: ~1000psi Blanco Mesaverde: ~1000psi

If you need anything, please let me know.

Thank you,

Martín Cabrera

Energen Resources San Juan Basin (505)324-4122

From: Jones, William V., EMNRD [mailto:William.V.Jones@state.nm.us]

Sent: Friday, August 19, 2011 8:33 AM

To: Martin Cabrera

Cc: Ezeanyim, Richard, EMNRD

Subject: DHC Application and Reservoir Pressure

Hello Martin,

Hope you are doing well today!

In this Jicarilla 95 #1B (API No. 30-039-26309)... would you ask your engineers what they think the reservoir pressure is

in the:

Gavilan; Pictured Cliffs Gas Pool and the Blanco; Mesaverde Prorated Gas Pool

The DHC application needs this info, just email the numbers to me and I will put it on the form.

Thank You,

William V Jones, P.E.
Engineering, Oil Conservation Division
1220 South St. Francis Drive, Santa Fe, NM 87505
Tel 505.476.3448 ~ Fax 505.476.3462

