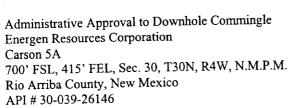
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			MEDINE THIS LINE FOR DIVISION USE ON		
			OIL CONSERVAT		
		ADMINISTRATI\	VE APPLICATIO	N COVERSHEE	<u>T</u>
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Application Acro	7-2Ha) 19	[DD-Directional] [Ownhole Commingling] [OL: C-Pool Commingling] [OL:	CTB-Lease Commingling S - Off-Lease Storage] nsion] [PMX-Pressure	[OLM-Off-Lease Measur Maintenance Expansion]	,
[1] TYPE	OF Al	PPLICATION - Check Location - Spacing Uni NSL NSP	it - Directional Dillin	for [A] ng	JUN 2001
$\mathcal{N}_{\mathcal{M}}$	Check [B]	One Only for [B] or [C] Commingling - Storage DHC CTB	e - Measurement PLC PC	OLS OLM	COLOON ON DISTRICT
	[C]	Injection - Disposal - F		hanced Oil Recovery EOR PPR	
[2] NOTI	FICAT	TION REQUIRED TO: ☐ Working, Royalty o	- Check Those Which or Overriding Royalty	th Apply, or 🖸 Does N Interest Owners	iot Apply
	[B]	Offset Operators, L	easeholders or Surfac	ce Owner	
	[C]	☐ Application is One	Which Requires Publ	lished Legal Notice	
	[D]	Notification and/or U.S. Bureau of Land Ma	Concurrent Approva	I by BLM or SLO poic Lands, State Land Office	
	[E]	Tor ail of the above	e, Proof of Notificatio	on or Publication is Att	ached, and/or,
	[F]	☐ Waivers are Attach			
[3] INFO	RMA	ΠΟΝ / DATA SUBMIT	TTED IS COMPLET	TE - Statement of Und	erstanding
Regulations of approval is ac RI, ORRI) is omission of d	of the O ccurate	I, or personnel under my il Conservation Division and complete to the best on. I further verify that a formation or notification	L. Further, I assert in of my knowledge and Il applicable API Nu	at the attached applicate, ve d where applicable, ve mbers are included. I	erify that all interest (WI, understand that any
taken.	UNK	Notes Statement of the	ust be completed by an individual	Sustein Species	NRNDENT 6/5/01



June 15, 2001

Ms. Lori Wrotenbery NMOCD 1220 South ST. Francis Drive Santa Fe, New Mexico 87504

RE:





Dear Ms. Wrotenbery:

Energen Resources Corporation requests Administrative Approval to add the E Blanco Pictured Cliffs and downhole commingle it with the Blanco Mesa Verde in the subject well. The well is currently producing as a single Mesa Verde completion. Open hole log results show additional potential in the Pictured Cliffs formation similar to offset producing wells. Since the Pictured Cliffs is marginal in this area, it is felt commingling is the most economical way to produce the Pictured Cliffs reserves in this proration unit

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

- 1. Form C107A Application for Downhole Commingle
- 2. C102 Location plat showing each spacing unit and dedicated acreage
- 3. Production curves for both the Pictured Cliffs and Mesa Verde
- 4. Offset operator plat
- 5. Supporting pressure data
- 6. Proposed allocation method

In accordance to New Mexico Oil Conservation Division Rule 303D, all offset operators are being notified of this application by certified mail. As an offset operator, working, royalty or overriding royalty owner, and 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/vd

cc: NMOCD - Aztec, BLM - Farmington, Offset Operators

District I

District II

811 South First Street, Artesia, NM 88210

District III

Well zos Road, Aztec, NM 87410

District IV

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

Form C-107A Revised May 15, 2000

APPLICATION TYPE

_X_Single Establish Pre-Approved Pools

EXISTING WELLBORE

1220 S. St. Francis Dr., Santa Pe, NM 87505	APPLICATIO	_X YesNo	
Energen Resources Corporation 2198 Bloomfield Highway, Farmington, New Mexico 87401 Operator Carson 5A P Sec 30 T30N R4W Rio A Lease Well No. Unit Letter-Section-Township-Range)1		
•	5A		Rio Arriba
Lease	Well No.	Unit Letter-Section-Township-Range	County
OGRID No162928	Property Code_21185	API No3003926146_ Lease T	Type: _X_FederalStateFee

INTERMEDIATE ZONE LOWER ZONE **UPPER ZONE DATA ELEMENT** Blanco Mesaverde East Blanco Pictured Cliffs Pool Name 72319 72400 Pool Code 6244-6820 4250-4505 Top and Bottom of Pay Section JUN 2001 (Perforated or Open-Hole Interval) Flowing Flowing Method of Production (Flowing or Artificial Lift) 404 Calc 529 Est 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) 1050 Btu Oil Gravity or Gas BTU (Degree API or Gas BTU) 1080 Btu Producing Producing, Shut-In or New Zone New Zone Date and Oil/Gas/Water Rates of Last Production.
(Note: For new zones with no production history, Date: 4/1/2001 Date: Date: n/a applicant shall be required to attach production Rates: 0/134/1.5 estimates and supporting data.) Rates: Rates: n/a Oil Gas Oil Gas Oil Gas Fixed Allocation Percentage % % % % % % explanation will be required.)

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?	Yes_2 Yes_2		No
Are all produced fluids from all commingled zones compatible with each other?	Yes	_x	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	_x	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

OW1

within the proposed Pre-Approved Pools were provided notice of this application. Proof that all operators

Bottomhole pressure data

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

_TITLE__District_Superintendent_ **SIGNATURE** TELEPHONE NO. (<u>505</u>)<u>325-6800</u> TYPE OR PRINT NAME

District I PO Box 1980, Hobbs, NSI xx241-1980

2040 South Pacheco, Santa Fe, NM 87505

SIAIC OF NEW MEXICO Energy, Minerals & Natural Resources Department

Form C-102 Revised October 18, 1994

State Lease - 4 Copies Fee Lease - 3 Copies

Instructions on back Submit to Appropriate District Office

District II OIL CONSERVATION DIVISION #11 South First, Artesia, NM #X210 2040 South Pacheco District III 1000 Rio Brazos Rd., Aztec, NM #7410 Santa Fe, NM 87505 District IV

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

· 30-039-26146	72400/72319 E Blanco PC/ Blanc	Pool Name O Mesa Verde
4 Property Code 21185	Property Name CARSON	* Well Number
'OGRID No. 162928	Operator Name ENERGEN RESOURCES, INC.	* Elevation 7504*

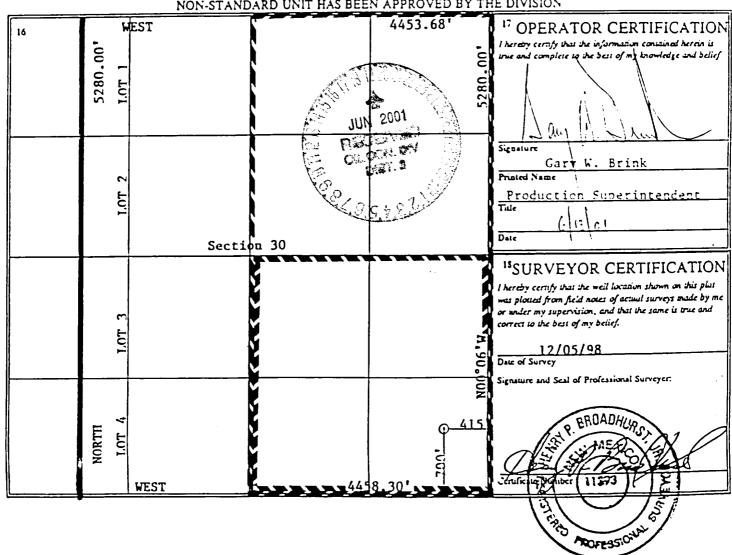
10 Surface Location

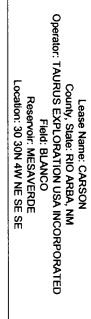
UL or lut no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	Ent/West line	Couply
P	30	30N	4W		700'	SOUTH	415'	EAST	RIO ARRIBA

11 Bottom Hole Location If Different From Surface

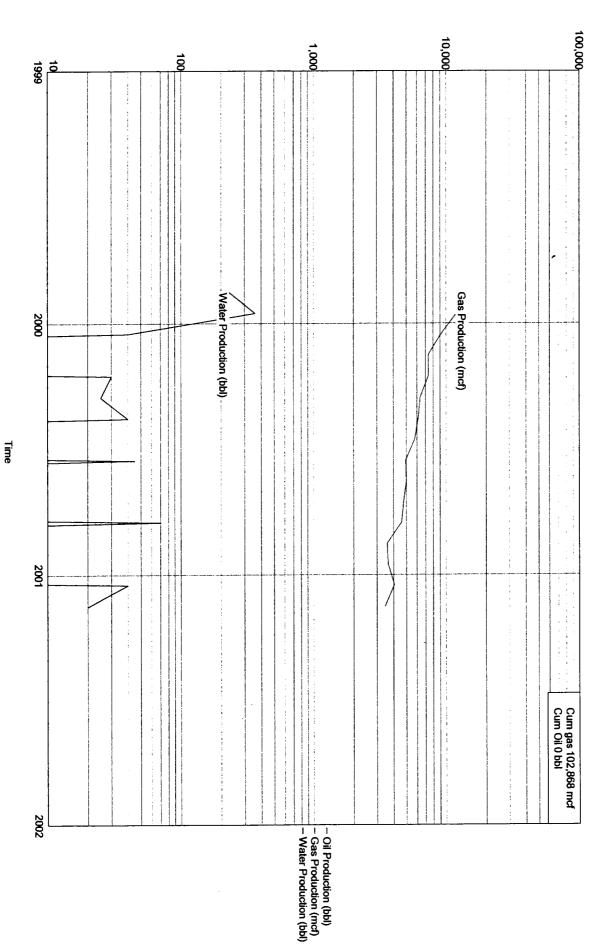
UL or lut no.	Section	Township	Range	عاد اما	Feet from the	North/South line	Feet from the	East/West line	County
11 Dedicated Acr	a '' Joint	or Infill 14	Consolidatio	n Code "O	rder No.				
160/32	:ol								. <u> </u>

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



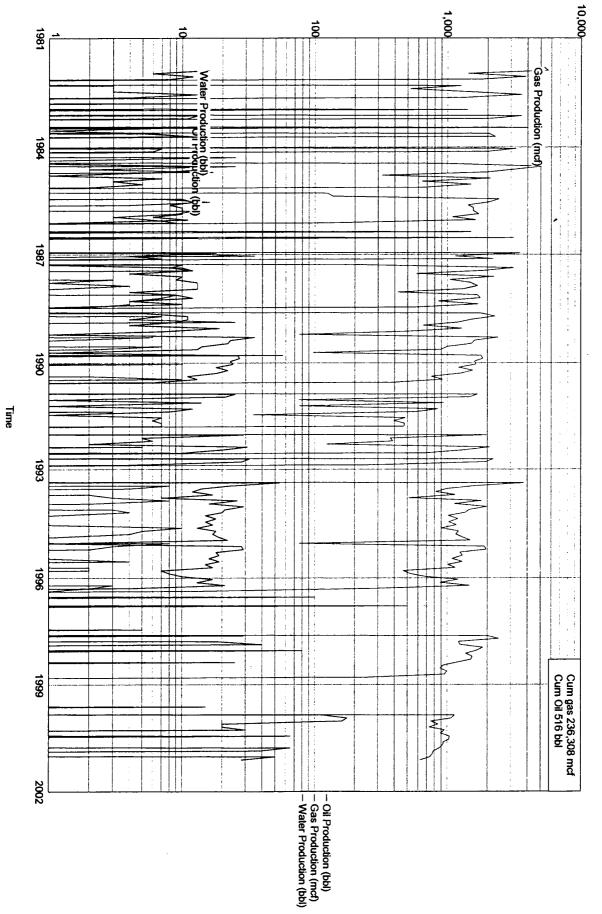


Carson 5A





PC Type Curve

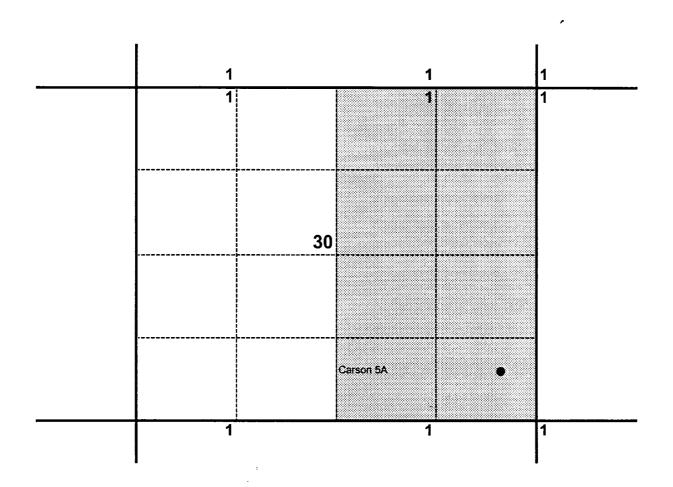


Energen Resources Corp.

Carson 5A Offset Operator / Ownership Plat

E. Blanco Pictured Cliffs/ Blanco Mesa Verde Downhole Commingling

Township 30 N, Range 4 W



1) Energen Resources

Pictured Cliffs Current Shut-In Bottom Hole Pressure

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PC Payadds

PC Well

Current BHP, psia

Carson #5A

Proposed Allocation Method

Produce total well stream for 60 days following Pictured Cliffs pay add Pay add projected to add 100 MCFD from Pictured Cliffs

Total Stream = X Mesaverde flow rate = 134 MCFD

MV Allocation = 134/X as a percentage

PC allocation = (X-134)/X as a percentage

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