(6/20/01.	_7/10/01 _ DC _ W	- DHC
		ABOVE THES UNE FOR DIVISION USE ONLY NEW MEXICO OIL CONSERVATION DIVISI	ON C3
		- Engineering Bureau -	0
		ADMINISTRATIVE APPLICATION COVER	
ppli	ication Acronyms: (DHC-I (P	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Loc [DD-Directional Drilling] [SD-Simultaneous Dedication Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/L C-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Exp [SWD-Sait Water Disposal] [IPI-Injection Pressure Increa Qualified Enhanced Oil Recovery Certification] [PPR-Positive Proc	zation) 1] sase Commingling] 1 Measurement) pansion] Ise]
]	TYPE OF AI [A]	PLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling	1005 O 2 MIL
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS	OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Rec WFX PMX SWD IPI EOR	overy PPR
]	NOTIFICAT [A]	ION REQUIRED TO: - Check Those Which Apply, or I I Working, Royalty or Overriding Royalty Interest Owner:	•••
	[B]	Offset Operators, Leaseholders or Surface Owner	
	[C]	Application is One Which Requires Published Legal Not	ice
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands. State Land O	
	[E]	The For all of the above, Proof of Notification or Publication	is Attached, and/or,
	[F]	U Waivers are Attached	
	INFORMATI	ON / DATA SUBMITTED IS COMPLETE - Statement of	f Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Print or Type Name

Note 800 DECENTENDEN (Nr Signature



June 15, 2001

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

RE: Administrative Approval to Downhole Commingle Energen Resources Corporation Carson 5A 700' FSL, 415' FEL, Sec. 30, T30N, R4W, N.M.P.M. Rio Arriba County, New Mexico API # 30-039-26146

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

1625 N. French Drive, Hobbs, NM 88240 District II

811 South First Street, Artesia, NM 88210 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

Form C-107A Revised May 15, 2000

APPLICATION TYPE

_X_Single

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

Establish Pre-Approved Pools EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

_X_Yes ___No

2198 Bloomfield Highway, Farmington, New Mexico 87401 Energen Resources Corporation Address Operator P Sec 30 T30N R4W Rio Arriba 5A Carson Well No. Unit Letter-Section-Township-Range County Lease API No. 3003926146 Lease Type: X Federal _State ___Fee Property Code_21185_ OGRID No.__162928___ **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 (Perforated or Open-Hole Interval) Flowing Flowing Method of Production (Flowing or Artificial Lift) Bottomhole Pressure 404 Calc 529 Est

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)	108	30 Btu			10	950 Btu
Producing, Shut-In or New Zone	Nev	v Zone			Pr	oducing
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production	Date: n/a		Date:		Date: 4/1/200	1
estimates and supporting data.)	Rates: n/a		Rates:		Rates: 0/134/	1.5
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.)	%	%	%	%	%	%

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?		es es	x x	No No
Are all produced fluids from all commingled zones compatible with each other?	Y	es	_x	No
Will commingling decrease the value of production?	Y	es		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?	Y	es	_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. 	1 1 1 1			

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

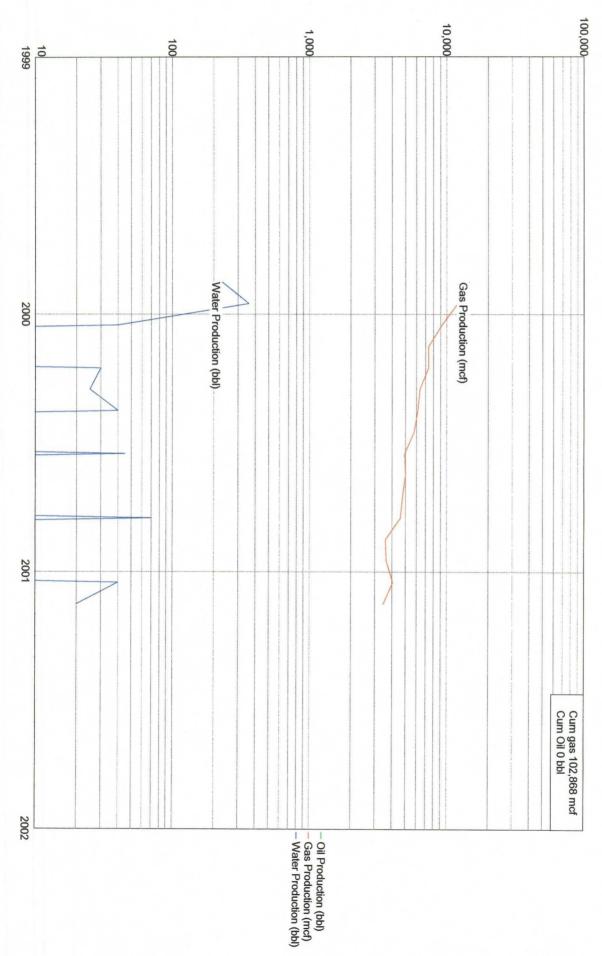
List of other orders approving downhole commingling within the proposed Pre-Approved Pools List of all operators within the proposed Pre-Approved Pools Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

I hereby certify that the	informatic	above is true and	complete to the best of my knowledge and b	elief.
SIGNATURE			TITLEDistrict_Superintendent	DATE 6/15/01
TYPE OR PRINT NAM	ie 6	INRY BRINK	TELEPHONE NO. (505) 325-6800
		ł		

District I. (14) Bag 1980, Hubbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1080 Rio Benzos Rd., Aztee, NM 87410			State of New Mexico Energy, Minerala & Natural Remuter Department OIL CONSERVATION DIVISION Sub 2040 South Pacheco Santa Fe, NM 87505						Form C-10 Revised October 18, 199 Instructions on bac binit to Appropriate District Offic State Lease - 4 Copie Fee Lease - 3 Copie	
District IV 2040 South Pacho	ccu, Santa F	'e, NM \$7505	;					G	AMENDED REPO	
		W	ELL LC)CATIO	ON AND AC	CREAGE DED	ICATION PI	LAT		
·· 30-03	9-26128	r)	724	<mark>з ны с</mark> 00/723		E Blanco PC/	Poul N Blanco Mes	1	·····	
* Property 21185	Cude					ty Name SON			* Well Number	
OCRID			· · · · · · · · · · · · · · · · · · ·	 F	' Operat	URCES, INC.			- <u>5</u> A "Elevation 7504"	
16292	8					e Location		· · · · ·		
UL or lut no.	Section	Township	Range	Lot Ida	Feet from the	Nurth/South line	Feet from the	ENVWO	Line Couply	
P	30	30N	<u>4</u> W		700'	If Different Fr	415 [*]	EAST	RIO ARRII	
111 on 111 on	Section	Township	Range	Lot Ida	Feet from the	If Different Fr	Feet from the	EnuWa	Line Courts	
UL or lut no.	Secura	Lowmanp	Kabge	1.00100	rectirom inc	North/South the	Feet from the	EASUMO	t line County	
" Dedicated Acr 160/32		or Infill 14	Consolidatio	on Code "	Order No.					
								6	CONSOLIDATED OF	
(· · · · ·	EST N	ON-STAN	IDARD (JNIT HAS BEE	APPROVED B			CERTIFICATIO	
	5280.00' 1.0T 1						UC true and com		Correction contained herein is est of my knowledge and belie	
	1.0T 2		Sect	ion 30			Printed Nam		iperintendent	
	.0T 3						I hereby certij was ploued fr	fy that the wei om field notes upervision, a	CERTIFICATIO il location shown on this plat s of actual surveys made by m nd that the same is true and dief.	
					<u> </u>		C Date of Surve		asional Surveyer:	
	NORTH LOT 4	WEST				0 <u>4</u> 	Signature and	P. BROA	DHURST	
							EST EST	+ -		

Lease Name: CARSON County, State: RIO ARBA, NM Operator: TAURUS EXPLORATION USA INCORPORATED Field: BLANCO Reservoir: MESAVERDE Location: 30 30N 4W NE SE SE

Carson 5A

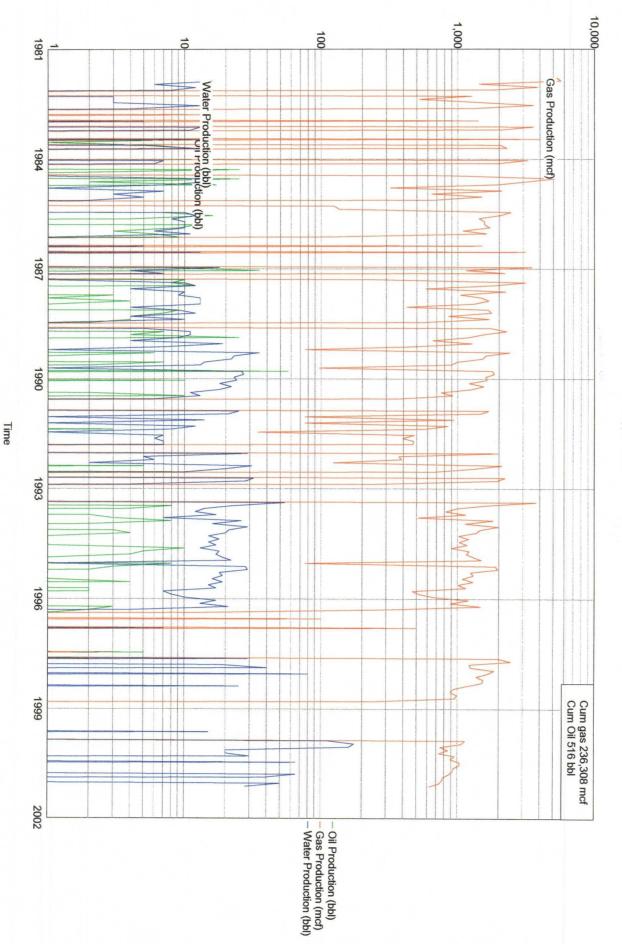


Time

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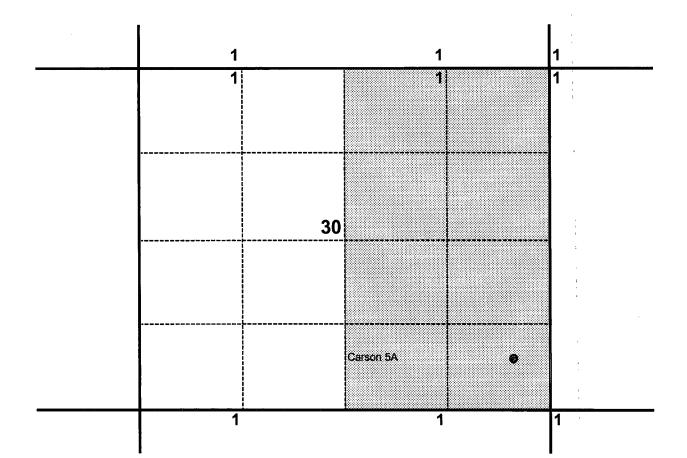
Energen Resources Corp.

Carson 5A

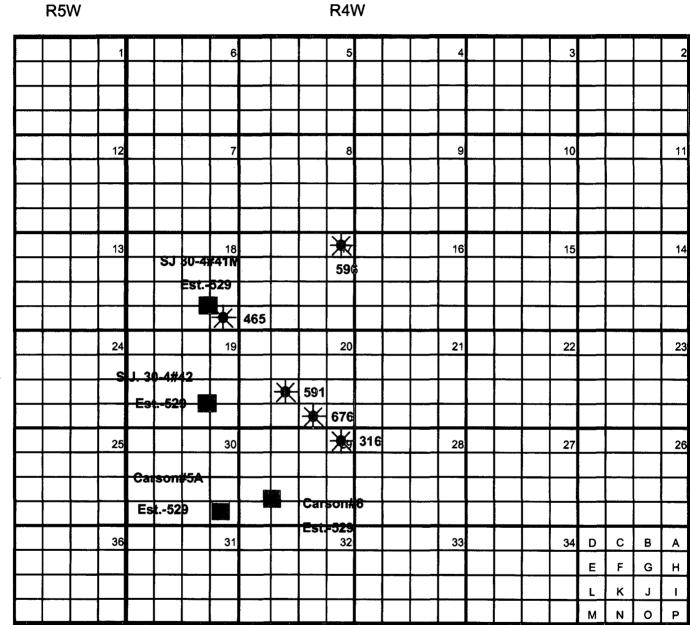
Offset Operator / Ownership Plat

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



PC Payadds



Current BHP, psia

T30N

· • • •

R4W

Carson #5A

Proposed Allocation Method

. t . .

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