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	1 1				AACYC T	ES UNE FOR DIVISION USE O	PLT .		
			N	EW MEXI		CONSERVA	TION DIV	ISION	25/5
			ADMI	NISTRA'	TIVE A	APPLICATI	ON COVI	ERSHEET	
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Applic	cation Acr	(DHC-I	Downhole C C-Pool Corr [WFX-V	[DD-Direction ommingling]	nal Drillir [CTB-L [OLS - Off [pansion]	ion Unit] [NSL-1 ng] [SD-Simulta .ease Comminglii [Lease Storage] [PMX-Pressum al] [IPI-Injectio Cartification] [inecus Dedica ng] [PLC-Po [CLM-Off-Li Maintenanca	ntion] col/Lease Comi ease Measurer e Expansion]	mingling OCT 2.5 (999) ment] GERVATION (4)
[1]	ТҰРЕ	OF A	Location		Unit - Di	Which Apply irectional Drilli			
		Check [B]	•	for [B] or gling - Stor	age - Me	easurement PLC PC	OLS	OLM	
		[C]	Injection WFX	•		re Increase - Er SWD [] [P]	nhanced Oil GEOR	Recovery PPR	
[2]	NOTT	FICAT [A]		_		eck Those Which rriding Royalty			Apply
		[B]	Offset	Operators,	Leaseho	olders or Surfac	e Owner		
		[C]	☐ Applic	ation is On	e Which	n Requires Publ	ished Legal	Notice	
		[D]	Notific	cation and/o	r Concu	irrent Approval	by BLM or tacs. State to	SLO and Office	
		[E]	☐ For aii	of the abov	e, Proof	f of Notification	n or Publicat	ion is Aπach	ed, and/or,
		[F]	☐ Waive	rs are Attac	hed				
[3]	INFOR	LMATI	ON / DAT	TA SUBMI	TTED I	IS COMPLET	E - Statemer	at of Underst	anding
regui. Sprov U, OF	val is acc: VRI) is co	urate ar orumon	Conservation completed. I further mation or	ion Division e to the best verify that :	n. Furti t of my l all applic	her, I assert tha knowledge and cable API Num	t the attached where appli- bers are incl	d application cable, verify	pplicable Rules and for administrative that all interest (WI, erstand that any d with no action
CAAI	Type Name			Signature	DM	1/	Title	107 gbt	10/22/99



October 22, 1999

Ms. Lori Wrotenbery New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505

RE:

Administrative Approval to Downhole Commingle Energen Resources Corporation Jicarilla 152W #2 990 FNL, 1650 FEL, Sec. 5, T26N, R5W, N.M.P.M. Rio Arriba County, New Mexico

Dear Ms. Wrotenbery:

Energen Resources Corporation, requests to downhole commingle the S. Blanco Pictured Cliffs, Blanco Mesaverde and Basin Dakota pools in the subject well. The well is currently producing as a Pictured Cliffs/Mesaverde dual completion. The Dakota zone was temporarily abandoned in 1967 when a blanking plug was set in the tubing to repair a packer leak. In addition, the Mesaverde is experiencing liquid loading problems due to mechanical restrictions and it is felt downhole commingling would eliminate excessive operational problems and recover the lost reserves in the Dakota Pool by returning it to production.

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

- 1. For C107A Application for Downhole Commingle
- 2. C102 Location plat showing each spacing unit and dedicated acreage
- 3. Production curves for both the Pictured Cliffs, Mesaverde and Dakota
- 4. Offset operator plat
- 5. Well location plat
- 6. Proposed allocation method

In accordance to New Mexico Oil Conservation Division Rule 303C, all offset operators are being notified of this application by certified mail. As an offset operator, if 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/mt

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

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107-A New 3-12-96 APPROVAL PROCESS:

OIL CONSERVATION DIVISION 2040 S. Pacheco Santa Fe, New Mexico 875054-6429

2198 Bloomfield Highway, Farmington, New Mexico 87401

X_Administrative __Hearing

DISTRICT II 811 S. First St., Artesia, NM 88210-2835

DISTRICT III 1000 Rio Brazos Rd, Aztec, NM 87410-1693

ENERGEN RESOURCES CORPORATION

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE <u>X</u>YES ___NO

Jicarilla 152 W	2 Well No.	B Unit Ltr Sec	Sec. 5	T26N	R5W	Rio Arri Coun		
OGRID NO. 162928 Property Cod		PI NO. 30-039			Spacing U	Init Lease Types:	(check 1 or more) _, (and/or) Fee	
	9 <u>21343</u> AF	1100. <u>30 03.</u>	7 00720	99995 trooppagebooosesy (rederal_A	, State	_, (and/or/) ee	
The following facts are submitted in support of downhole commingling:	Upper Zone		- 1	ntermediate Zone			Lower Zone	
Pool Name and Pool Code	S Blanco Pictured 72439	Cliffs	Bland	co Mesaver 72319	de		in Dakota 71599	
Top and Bottom of Pay Section (Perforations)	3132-3184		4	820-5426			64-7572	
Type of production (Oil or Gas)	Gas		<u> </u>	Gas			Gas	
Method of Production (Flowing or Artificial Lift)	Flowing			Flowing		F	lowing	
5. Bottomhole Pressure	a. (Current)		a.			a.		
Oil Zones - Artificial Lift: Estimated Current	516 calc.		6	622 calc.		98	33 calc.	1
Gas & Oil - Flowing: Measured Current	b. (Original)		b.			b.		
All Gas Zones: Estimated Or Measured Original	1159 calc.			284 calc.			24 calc.	1
6. Oil Gravity (^O API) or Gas BTU Content)	1203 BTU			1187 BTU		1	222 BTU	
7. Producing or Shut-In?	Producing		P	roducing		Ś	Shut In	
Production Marginal? (yes or no)	Yes			No			Yes	
If Shut-In, give date and oil/gas/ water rates of last production	Date:		Date:				Jic 152W 6	
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Rates:		Rates:		, I	.5/80/.1		
If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: 10/12/99 Rates:		Date: 10/4 Rates:			Date: Rates:		
 	0/33/.1			.5/124/.2				
Fixed Percentage Allocation Formula -% for each zone	Oil: Gas:	See [%]	oil: Attache	d ^{% Gas:} Al	loc. [%]	Oil:	% Gas:	%
If allocation formula is based submit attachments with supply	upon something other orting data and/or ex	than curre	nt or past ethod and	production providing	, or is ba rate proje	ased upon sections or o	ome other met ther required d	 hod, lata.
 Are all working, overriding, and ro If not, have all working, overriding Have all offset operators been given 						<u>X</u> Ye	sNo sNo sNo	
11. Will cross-flow occur?\	es X No Ifves	are fluids o	omnatible	will the for	mations n	ot be damaç	jed, will any cro attach explanat	ss-
12. Are all produced fluids from all co						esNo		,
13. Will the value of production be de	creased by comminglin	g?	Ye	s <u>X</u> No	(If Yes	, attach expla	anation)	
14. If this well in on, or communitized United States Bureau of Land Mar	with, state or federal l	ands, either ified in writir	the Commi	issioner of F	Public Land X Yes	ds or the		
15. NMOCD Reference Cases for Rule				- ·-				
16. ATTACHMENTS: * C-102 for each zone t * Production curve for each * For zones with no prod * Data to support allocat * Notification list of all o * Notification list of work * Any additional statement	ach zone for at least or luction history, estimat ion method or formula. ffset operators	ne year. (If n ed productio	not available on rates and	e, attach ex d supporting	planation.) data.			
I hereby certify that the information at	pove true and comple	ete to the be	stofmyk	nowledge ar	nd belief.			
SIGNATURE OM W.	Minh	т	TITLE <u>Pro</u>	<u>d. Superir</u>	<u>itendent</u>	DATE <u>1(</u>)/22/99	
TYPE OR PRINT NAME Gary W. BI	rink			TELEPHO	NE NO. (_	505) <u>32</u> 5	5-6800	

District, I

PO Box 1980, Hobbs, NM 88241-1980

District II

811 S. 1st Street, Artesia, NM 88210-2834

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102 Revised October 18, 1994 Instructions on back

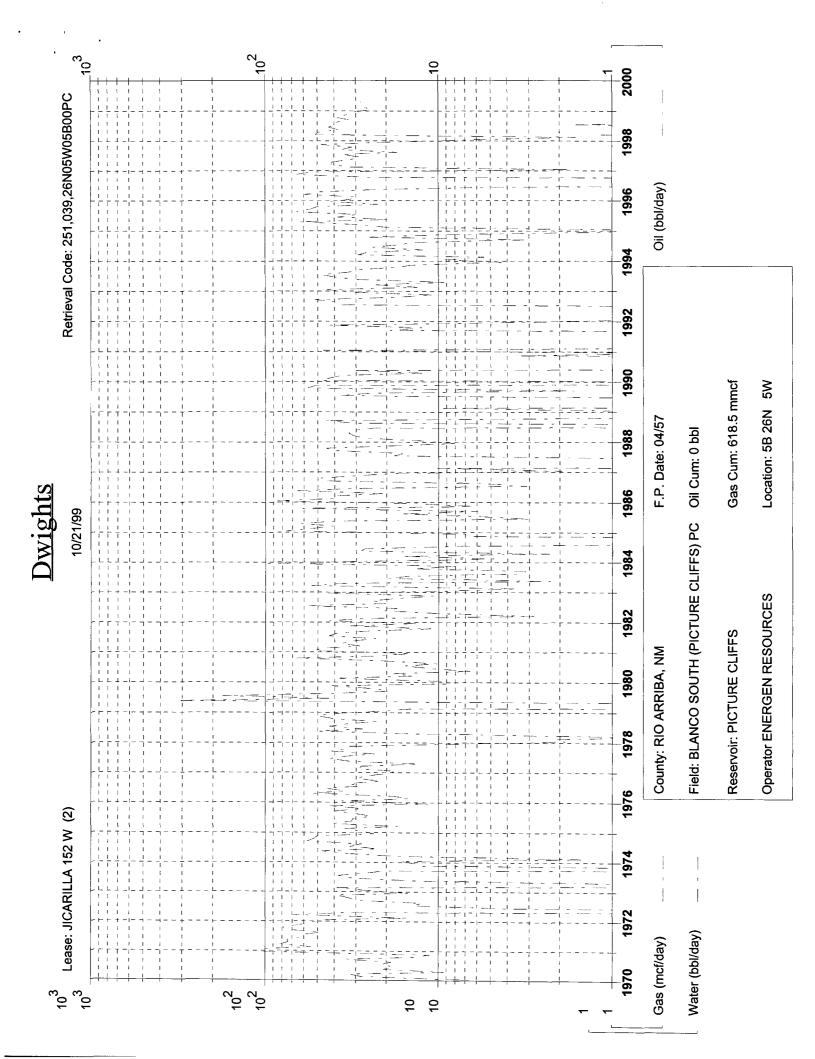
Submit to Appropriate District Office State Lease - 4 Copies

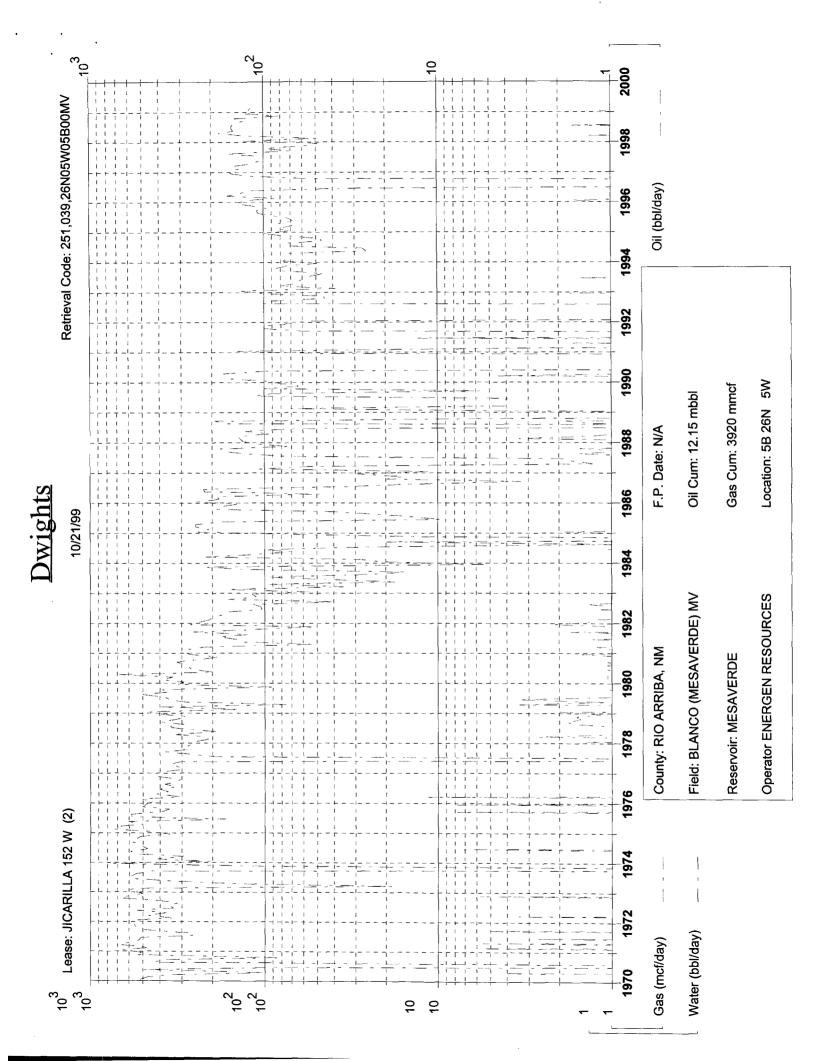
Fee Lease - 3 Copies

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	er		² Pool Code ³ Pool Name						
3	0-039-06	726	724	72439/72319/71599 S. Blanco PC/Blanco MV/Bas					ζ	
⁴ Property Code			5 Property Name						6 Well Number	
219	49			2						
7 OGRIE	No.		JIcarilla 152 W 8 Operator Name						9 Elevation	
1629	928		ENERGEN RESOURCES CORPORATION						6493	
				10	Surface Loca	ition				
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County	
В	5	26N	5W		990	North	1650	East	Rio Arriba	
			11 Bo	ottom Hole L	ocation If Dif	ferent From Surfac	ce			
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County	
² Dedicated Acr 59.7 & 319	.70		Consolidation							
NO ALLO	WABLE V					UNTIL ALL INT N APPROVED B			SOLIDATED	
					,066		I hereby certify	TOR CERTIFI that the information te to the best of my k	contained herein i	





Lease: JICARILLA 152 W (000002)

10/21/99

No Data or Data Out of Range for This Property

County: RIO ARRIBA, NM

Water (bbl/day)

Gas (mcf/day)

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator ENERGEN RESOURCES

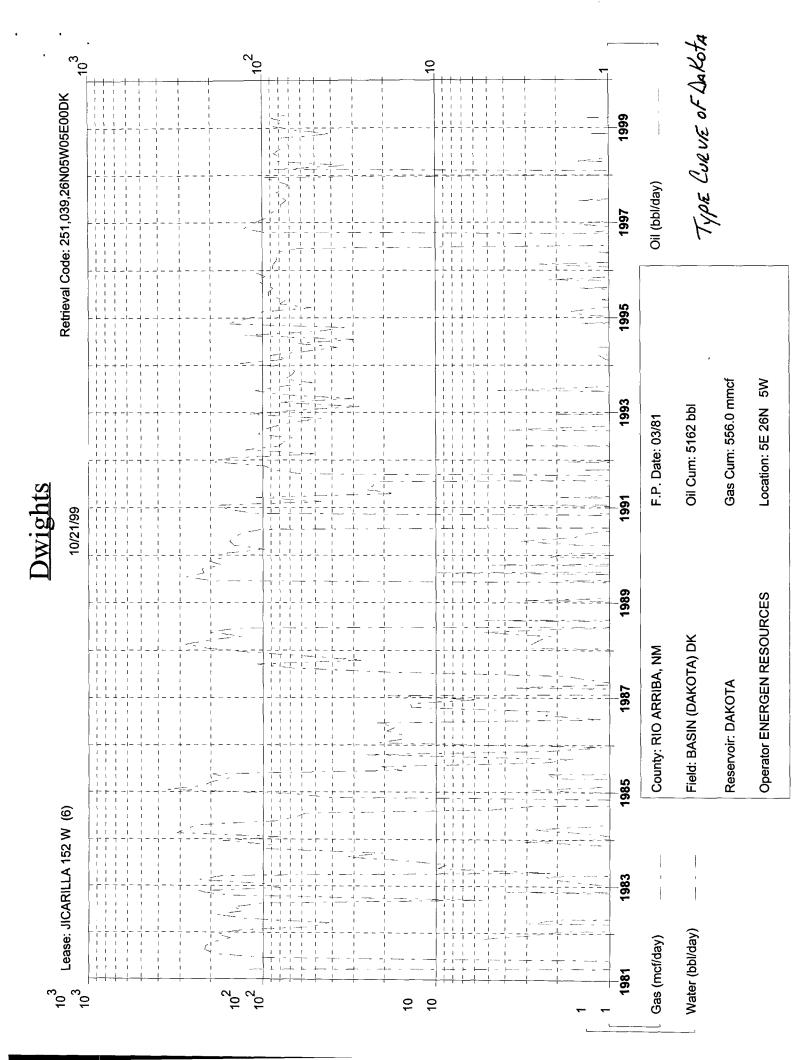
Oil Cum: 3247 bbl

F.P. Date: N/A

Oil (bbl/day)

Gas Cum: 451.5 mmcf

Location: 5B 26N 5W

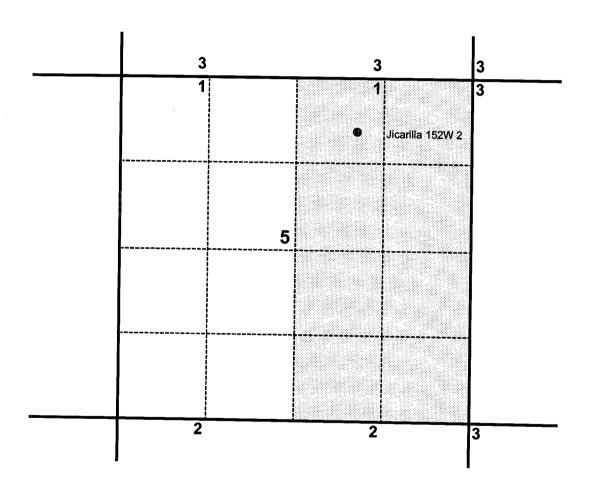


Energen Resources Corp.

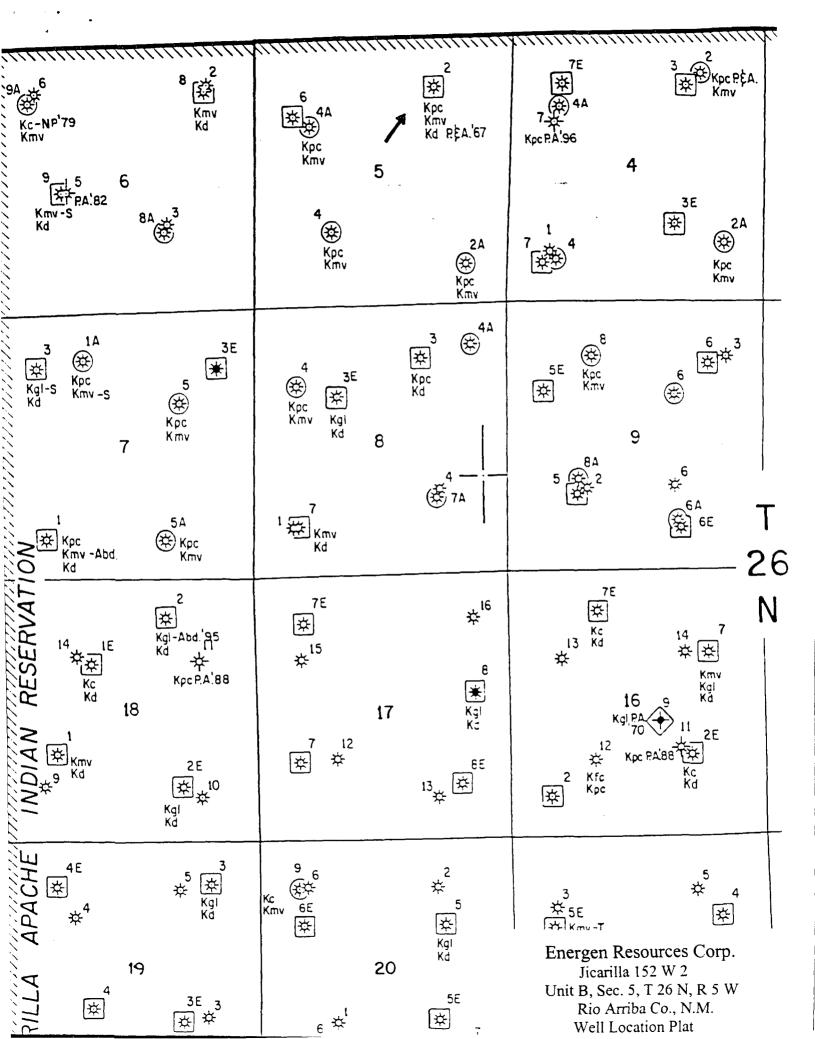
Jicarilla 152W #2 Offset Operator / Ownership Plat

S. Blanco Pictured Cliffs/ Blanco Mesa Verde/ Basin Dakota Downhole Commingling

Township 26 N, Range 5 W



- 1) Energen Resources
- 2) Graystone Energy Inc. 5802 Highway 64 Farmington, N. M. 87401
- 3) Burlington Resources P.O. Box 4289 Farmington, N.M. 87499-4289



Jicarilla 152 W 2

Proposed Allocation Method

Produce total well stream for 30 days following commingling Dakota stream projected to add 80 MCFD to total flow stream

Total Stream ≈ X
Stabilized PC flowstream – 33 MCFD
Stabilized MV flowstream – 124 MCFD

DK Allocation = (X-33-124)/X as a percentage

MV Allocation = 124/X as a percentage

PC Allocation = 33/X as a percentage

DK Oil Allocation = Total Stream- .5 BOPD to Mesa Verde as a percentage of the total Production

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