

November 19, 1999

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

RE:

Administrative Approval to Downhole Commingle

Energen Resources Corporation

Zachry #18E

960' FSL, 1455' FEL, Sec. 11, T28N, R10W, N.M.P.M.

San Juan County, New Mexico

30-045- 24105

Dear Ms. Wrotenberry:

Energen Resources Corporation requests administrative approval for downhole commingling the Otero Chacra and Basin Dakota pools in the subject well. The well is currently producing as a Chacra/Dakota dual completion. The Dakota has experienced liquid loading problems and it is felt downhole commingling will eliminate excessive swabbing expenditures to keep the zone unloaded and producing.

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 Commingling
- 2. C-102 Location plat showing each spacing unit and dedicated acreage
- 3. Production curves for both the Chacra and Dakota
- 4. Offset operator plat
- 5. Well location plat.

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-Farmington, Offset operators

F:\MONICA\PRODUCTI\OCD\ZACHRY 18 3-99 DOC

#### DISTRICT I

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

<u>DISTRICT II</u>

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

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

# State of New Mexico Energy, Minerals and Natural Resources Department

# OIL CONSERVATION DIVISION

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

Form C-107-A New 3-12-96

APPROVAL PROCESS:

X\_Administrative \_\_Hearing

EXISTING WELLBORE

## APPLICATION FOR DOWNHOLE COMMINGLING

X YES \_\_\_NO

ENERGEN RESOURCES CORPORATION Operator	2198_	Bloomfield Highway, Farming	ton, NM 87401			
Zachry		Sec. 11 T28N R10W	San Juan County, NM			
Lease			County Unit Lease Types: (check 1 or more)			
OGRID NO. 162928 Property Cod	e 21434 API NO. 30-0	45-24105 Federal_)	State, (and/or) Fee			
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone			
Pool Name and     Pool Code	Otero Chacra 82329		Basin Dakota 71599			
Top and Bottom of     Pay Section (Perforations)	2801 - 2910'	·	6196 - 6368'			
Type of production     (Oil or Gas)	Gas		Gas			
Method of Production     (Flowing or Artificial Lift)	Flowing		Flowing			
Bottomhole Pressure     Oil Zones - Artificial Lift:     Estimated Current     Gas & Oil - Flowing:	a. (Current) 320 CaTc.	a. DES - 1 1939	537 Calc.			
Measured Current All Gas Zones: Estimated Or Measured Original	<sub>b.</sub> (Original) 993 Calc.	b. Oli Geri, p	b. 983 Calc.			
6. Oil Gravity ( <sup>0</sup> API) or Gas BTU Content)	1203 BTU	[V] 37%, S]	1309 BTU			
7. Producing or Shut-In?	Producing	*	Shut In			
Production Marginal? (yes or no)	Yes		Yes			
* If Shut-In, give 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: Rates:	Date: Rates:	Date: 4/6/99 Rates: .1/45/.2			
* If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: 11/12/99 Rates: 0/48/0	Date: Rates:	Date: Rates:			
Fixed Percentage Allocation     Formula -% for each zone	Oil: Gas: 52 %	Oil: % Gas: %	OH: Gas: 48 <sup>%</sup>			
If allocation formula is based submit attachments with supply	upon something other than cur orting data and/or explaining	rent or past production, or is b method and providing rate proje	ased upon some other method, ections or other required data.			
10. Are all working, overriding, and royalty interests identical in all commingled zones?  If not, have all working, overriding, and royalty interests been notified by certified mail?  Have all offset operators been given written notice of the proposed downhole commingling?  X Yes — No						
11. Will cross-flow occur?Yes X_No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliableYesNo (If No, attach explanation)						
12. Are all produced fluids from all commingled zones compatible with each other?  X Yes No						
13. Will the value of production be decreased by commingling?Yes _X_No(If Yes, attach explanation)  14. If this well in on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the						
United States Bureau of Land Management has been notified in writing of this application. X YesNo						
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).  16. 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 all offset operators.  * Notification list of working, overriding, and royalty interests for uncommon interest cases.  * Any additional statements, data, or documents required to support commingling.						
I hereby certify that the information above is true and complete to the best of my knowledge and belief.						
SIGNATURE / JAM W. W. DITLE Prod. Superintendent DATE 11/19/99						
TYPE OR PRINT NAME Gary W. Brink TELEPHONE NO. ( 505 ) 325-6800						

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 18, 1994 Instructions on back

OIL CONSERVATION DIVISION — Submit to Appropriate District Office 2040 South Pacheco Santa Fe, NM 87505

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

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

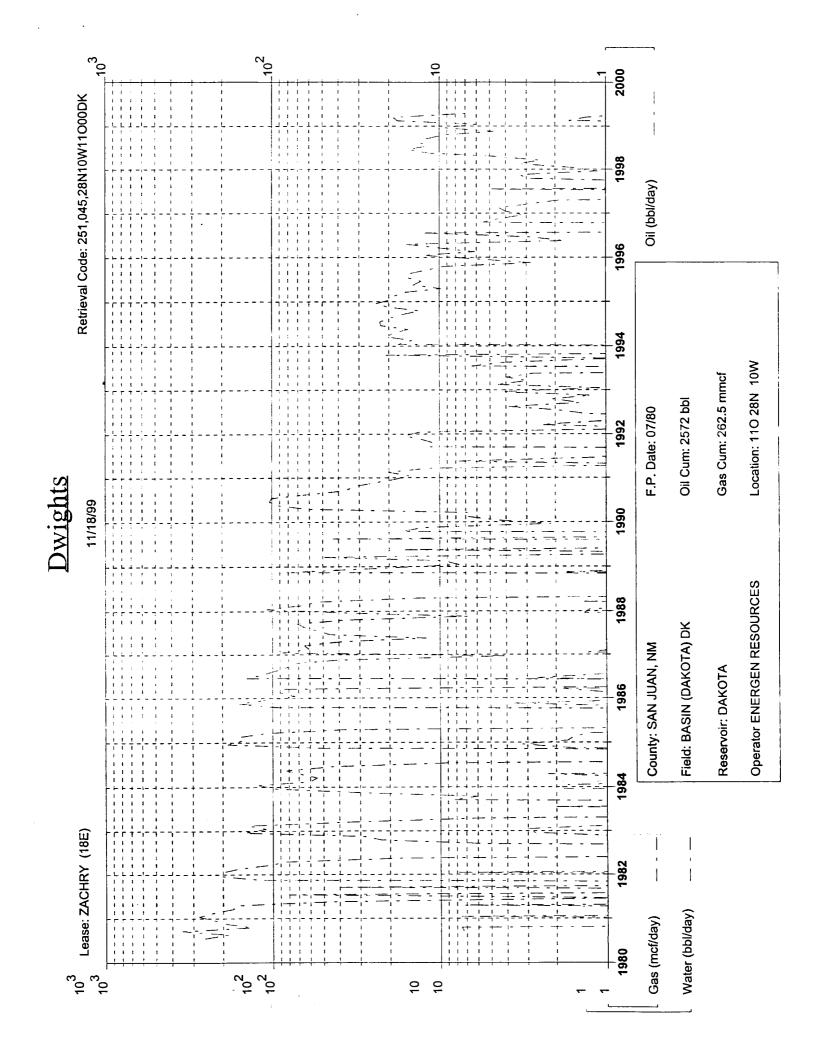
PO Box 1980, Hobbs, NM 88241-1980

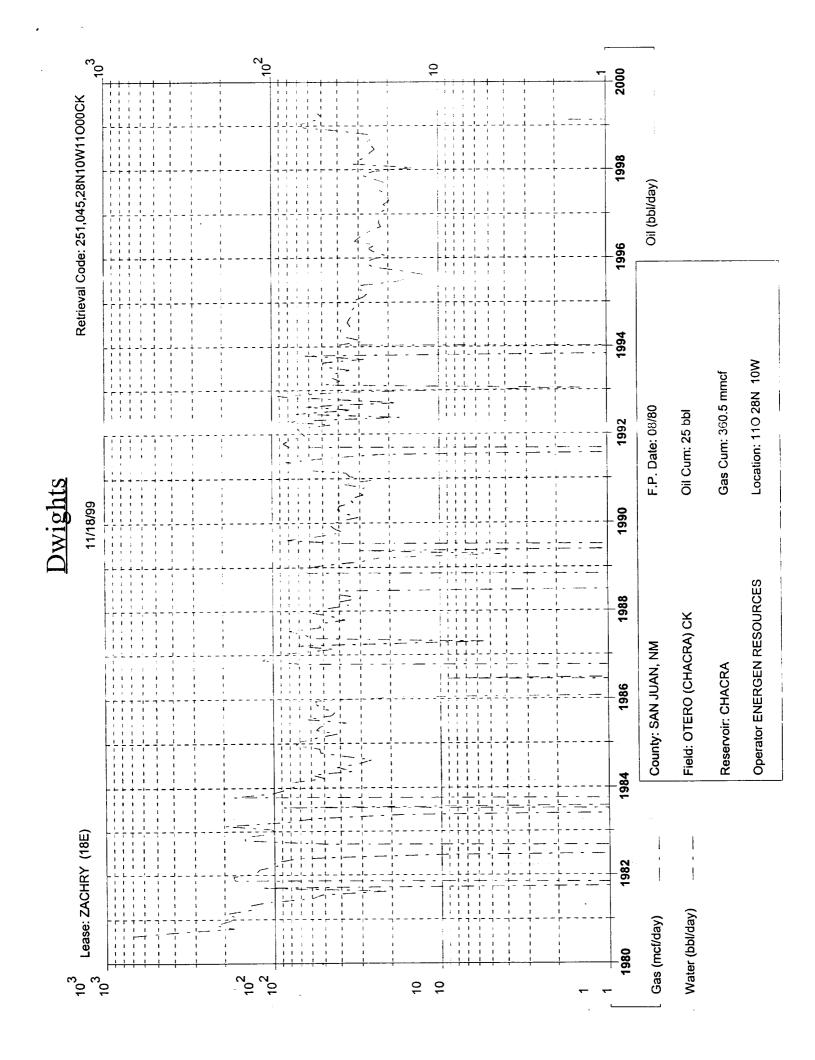
District I

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		<sup>2</sup> Pool Code		<sup>3</sup> Pool Name							
30	0-045-241	05	82329/71599 Otero Chacra/Basin Dakota								
4 Property	Code				5 Property	Name			6 /	6 Well Number	
2143	34				Zach					18E	
7 OGRID	No.				8 Operator	Name			9 Elevation		
1629	28			ENERGE	N RESOURCE	S CORP	ORATION			5594	
				10	Surface Loc	cation					
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	Nort	h South Line	Feet from the	East/West line	County	
0	11	T28N	R10W		960	j	South	1455	East	San Juan	
			<sup>11</sup> Bo	ttom Hole L	ocation If Di	ifferent	From Surfac	20			
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	Nor	th South Line	Feet from the	East/West line	County	
<sup>12</sup> Dedicated Acre 131.63/327.	l i	or Infili 14C	onsolidation	Code 15 Ord	ler No						
								ERESTS HAV	E BEEN CON	SOLIDATED	
		77.7.70	J.N-31.A.	NDARD ON	TI TING BE			·	<del></del>	IC . TION:	
ı	1	edicated	Acrea	e: 327.2	9 Ac. E/	2 E/2		11	TOR CERTIFI	,	
					10 and		Sec.11	true and complete	e id the best of my	nowiedye and bead	
					p 28-N, 1			11	/ /		
			ł		. San Ju			11 1	, 1	<b>l</b>	
			Ī					N	$\Lambda \parallel \Lambda$		
. / /	/ //	11/1/1/	1//:/	(11/1//	7////	11:1	111111	1 1 2 am	MOUNT	WI	
- <i>[[[]][[]][[]][[][[]][[]][[][[]][[][[]][[]][[][]</i>				Signature Garv W. Brink							
	//////	/}////	///}/.	//////	<i>{//////</i>	77/		Protes Name	THK		
	//////	/}////	V				•	reduction Superintendent			
	//////////////////////////////////////										
	/////	W////	/////	//////	Y/////	[[]]	//////	Date			
	/////	N////	/////	//////	Y/////	////	//////	3 SURVE	EYOR CERTIF	FICATION	
		//////					//////	was platted from	n field notes of act supervision, and	in shown on this plat tual surveys made by that the same is true	
=%==== [///////	/////			////// //////	¥//////			and correctionnes	ses. oj my beuej.		
///////		والمستراح والمراسل		<del>/</del>	( Carrier	حجد		July 5. 1	979		
Ì	i		. 1			i		Date of Survey			
	: 	<u>ئ</u>	 		<u> </u>	_i_	d	Signature and Se	al of Professional Su	rveyer:	
] -		*	1 I		Ľ	_!	. q	Reissue	of Origina	1 Survey	
}		r: [	1 1			©—	الم	By James	Leese		
}	• •				t	Çl .	,				
263 <b>5</b> .6	7		· [	727		11	ļ.	Certificate Nume			
<u>ئ. توت عات                                   </u>	′			./ ټ ر				Carling Minns	יכו		

50705: 41=11.05





### **Energen Resources Corp.**

Zachry #18E Offset Operator / Ownership Plat Otero Chacra/ Basin Dakota Downhole Commingling

Township 28 N, Range 10 W

33 Burlington Resources	34 Burlington Resources Roddy Production Co.	<b>35</b> Burlington Resources
10 Burlington Resources	11 Zackery 18	12 Burlington Resources
15 Burlington Resources	1 <b>4</b> Burlington Resour	ces Burlington Resources

<sup>1)</sup> Burlington Resources P.O. Box 4289 Farmington, N.M. 87499-4289

<sup>2)</sup> Roddy Production Co., Inc. P.O. Box 2221 Farmington, N.M. 87499-2221

