•						
_5	/13/98	_ 6/2/98	_ DC	_ M	$\checkmark$	- DHC
/			ABOVE THIS LINE FOR DIVISION US	E CHLY		
		NEW MEXIC	CO OIL CONSERV  - Engineering Bureau	ATION DIVIS	ION	1966
		ADMINISTRAT	IVE APPLICAT	ION COVER	RSHEET	•
	THIS CO	VERSHEET IS MANDATORY FOR ALL A	DMINISTRATIVE APPLICATIONS	FOR EXCEPTIONS TO DIV	ISION RULES AND	REGULATIONS
Applicat	(F	[NSP-Non-Standard [DD-Direction Downhole Commingling] [PC-Pool Commingling] [O [WFX-Waterflood Exp	ILS - Off-Lease Storage lansion] [PMX-Pressu   Disposal] [IPI-Injecti	taneous Dedication ling] [PLC-Pool/ ] [OLM-Off-Leas re Maintenance Ellon Pressure Incre	on) Lease Comm se Measurem expansion) ease)	nent] ·
[1]	[A]	PPLICATION - Check Location - Spacing Units Spacing Units Space Sp	nit - Directional Dril	ling	D E G MAY	131998 [ ] V [ ]
	Check [B]	Commingling - Storage  DHC CTB			CONSER	VATION DIVISION
	[C]	Injection - Disposal - I			covery PPR	
2] !	NOTIFICAT	TON REQUIRED TO	: - Check Those Whi	ich Apply, or	Does Not	Apply
. •	[A]	☐ Working, Royalty of				FF - 7
	[B]	Offset Operators, L	easeholders or Surfa	ce Owner		
	[C]	☐ Application is One	Which Requires Pub	lished Legal No	otice	
	[D]	Notification and/or U.S. Bureau of Land Ma	Concurrent Approva	al by BLM or SI	JO Office	
	[E]	Tor all of the above	, Proof of Notification	on or Publication	n is Attache	ed, and/or,
	[F]	☐ Waivers are Attache	<b>xd</b>			

## [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of 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.

Note: Statement must be completed by an individual with supervisory capacity

		and supervisory supervisory.	
John Roe Print or Type Name	Signature Soc	Engineering Manager Title	5-12-98 <b>Date</b>



## dugan production corp.



May 12, 1998

Ms. Lori Wrotenbery, Director New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Mr. Duane Spencer Bureau of Land Management 1235 La Plata Highway Farmington, NM 87401

Re: Application for Administrative Approval to Downhole Commingle Dugan Production's Garrett Federal Com No. 1E API No. 30-045-24302 (B-12-29N-11W) Blanco Mesaverde & Basin Dakota Gas Pools San Juan County, NM

Dear Ms. Wrotenbery & Mr. Spencer:

Attached is NMOCD Form C-107A and it's associated attachments where in we are requesting your approvals to downhole commingle natural gas and condensate production from the Blanco Mesaverde and Basin Dakota gas pools in the currently dually completed Garrett Federal Com No. 1E well operated by Dugan Production Corp. Dugan Production holds 100% of the working interest and all interest in each spacing unit is common.

This well is currently dually equipped with two strings of 2-1/16" tubing and the Mesaverde completion requires a wellhead compressor to produce into the pipeline which averages 175-200 psia. It is also necessary to vent the Mesaverde tubing two to four times a month to unload a small amount of accumulated water.

The Dakota completion does not use wellhead compression but is equipped with a plunger lift which is necessary to lift the associated condensate production along with a small amount of water. Even with the plunger, it is necessary to vent the Dakota tubing four to seven times a month to keep the liquids from logging the Dakota off.

The proposed downhole commingling will allow the installation of larger tubing and both completions to be produced with a plunger. In addition we plan to use the Mesaverde compressor for the commingled production. If all goes well, we hopefully will eliminate (or at least reduce) the need to blow the well to unload accumulated liquids and will have a much more efficient operation and possibly some increased gas production.

Should you have questions or need additional information, please let me know.

Sincerely,

John D. Roe

**Engineering Manager** 

JDR/tmf

cc: NMOCD - Aztec

State of New Mexico Energy, Minerals and Natural Resources Department

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

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

DISTRICT II

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

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

### **OIL CONSERVATION DIVISION**

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

APPROVAL PROCESS: XAdministrative \_\_\_

**EXISTING WELLBORE** 

X YES \_\_\_ NO

### P. O. Box 420, Farmington, NM 87499-0420 Dugan Production Corp.

B-12-T29N-R11W Unit Ltr. - Sec - Twp - Rge San Juan Garrett Federal Com

Spacing Unit Lease Types: (check 1 or more)

\_ Property Code 003690 API NO. 30-045-24302 Federal X , State OGRID NO. \_\_006515\_ , (and/or) FeeX

The following facts are submitted in support of downtrole commingling:	Upper Zone	Intermediate Zone	Lower Zore				
Pool Name and     Pool Code	Blanco Mesaverde 72319		Basin Dakota 71599				
Top and Bottom of Pay Section (Perforations)	4091-4664		6638-6743				
Type of production     (Oil or Gas)	Gas		Gas				
Method of Production     (Flowing or Artificial Lift)	Flowing with wellhead compression		Flowing with plunger lift				
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current) 357 PSIA @ 4378' (calculated)	a.	a. 346 PSIA @ 4378' (calculated @ MV datum)				
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	(Original) b.1509 PSIA @ 4378' (calculated)	b.	b. 1403 PSIA @ 4378' (calculated MV datum)				
6. Oil Gravity (°API) or Gas BTU Content	1237 BTU/CF		1192 BTU/CF				
7. Producing or Shut-In?	Producing		Producing				
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	Date: Rates:	Date: Rates:	Date:				
If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date:3/98 Average Rates: 57 MCFD +0 BC/D + 0.25 BWPD	Date: Rates:	Date:3/98 Average Rates:Rates: 46 MCFD + 0.55 BC/D + 0.25 BWPD				
Fixed Percentage Allocation     Formula -% for each zone	Oil: Gas: 56%	Oil: Gas: %	Oil: Gas: 44%				
9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections 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?  Yes No  11. Will cross-flow occur? Yes No							
	to be commingled showing its speach zone for at least one year. duction history, estimated production method or formulaAttachments 6 & king, overriding, and royalty intelents, data, or documents require	acing unit and acreage dedicatio (If not available, attach explanatiction rates and supporting data. nent No. 5 3.7 rests for uncommon interest cased to support commingling.	nAttachments 1 & 2 on.)-Attachments 3 & 4 es.				
hereby certify that the information a		-					
SIGNATURE John	RoeTITLE_E	ngineering Manager DAT	E_May 12, 1998				
YPE OR PRINT NAME John Roe							

District I

PO Box 1980, Hobbs, NM 88241-1980

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

AHachment

Form C-102

Revised October 18, 1994

Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

T

District IV 2040 South Pache	co, Santa Fe	, NM 87505			Salita PC, IV	W 67505			AME	NDED REPOR
		W	ELL LO	OCATIO1	N AND ACE	REAGE DEDIC	CATION PLA	AT		
1	API Numbe			<sup>2</sup> Pool Cod	e		³ Pool Na Blanco Mes			
¹ Property	0-045-2430 Code			71599	· 5 Property	Name	Bianco Mes	averde	٠,	Well Number
003690					Garrett Fede	eral Com	· · · · · · · · · · · · · · · · · · ·		1E	
<sup>7</sup> OGRID 006515	,				Operator Dugan Produc				,	' Elevation 5828'
000513	21				<sup>10</sup> Surface		**************************************			3028
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ne	County
В	12	29N	11W	<u> </u>	1170	North	1470		East	San Jua
			11 Bc	ttom Ho	le Location I	f Different Fro	m Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West lin	ie	County
12 Dedicated Acre 320	es Joint o	or Infill 14 C	Consolidatio	n Code 15 O	rder No.	·			,	
NO ALLOW	ABLE W					UNTIL ALL INTI			SOLI	DATED OR A
<u></u>	<del></del>	NO	ON-STAI	NDARD UI	NIT HAS BEEN	I APPROVED BY				IFICATION
				Fee M.B. Ga	111	1470 ' Federal NM-03717B	Signature  John Roe Printed Name Engineering Title May 4, 1998 Date  18 SURV	Manager  EYOR Cl	ERTI	FICATION
•							under my super to the best of my  4-21-80  Date of Survey  Signature and S	vision, and that y belief.  eal of Profession  y made & signe	the sam	e is true and correct

AHARAMONT #2

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

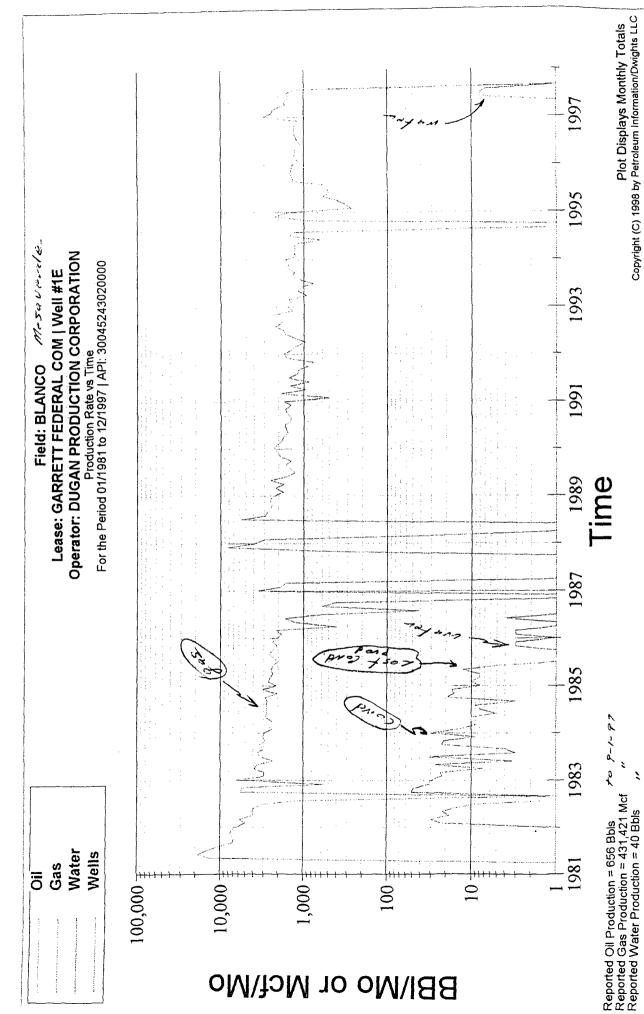
State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

2040 South Pacnec	o, Santa re	e, 141V1 075	,,							-	- AIVIL	NDED RELOKT
			WI	ELL LO	CAT	IOI	N AND ACR	EAGE DEDIC	CATION PLA	AT .		
<sup>1</sup> API Number <sup>2</sup> Pool Coo					Code	e		3 Pool Na				
30-045-24302 7155					599			Basin Dal	(ota			
<sup>4</sup> Property Code			<sup>5</sup> Property Name							Well Number		
003690							Garrett Feder  * Operator I				1E * Elevation	
<sup>7</sup> OGRID 1 006515	١٥.						Dugan Producti				l	5828'
							10 Surface 1	Location				
l'L or lot no.	Section	Townsl	nip	Range	Lot Ic	in	Feet from the	North/South line	Feet from the	East/West	line	County
В	12	2 2	9N	11W			1170	North	1470		East	San Juan
				11 Bo	ttom	Ho	le Location I	Different Fron	m Surface			
UL or lot no.	Section	Township Range Lot Idn		Feet from the	from the North/South line		Feet from the East/West		County			
12 Dedicated Acres	s <sup>13</sup> Joint	or Infili	¹⁴ C	onsolidation	Code	15 O	rder No.		· · · · · · · · · · · · · · · · · · ·	<del></del>		
320	<u> </u>		С									
NO ALLOW	ABLE W	/ILL BE						UNTIL ALL INTE APPROVED BY			ONSOLI	DATED OR A
							-		1481			IFICATION ntained herein is true
							0 1170	1470'	and complete t	o the best of		
					<del>11 1</del>		- 11-1		<del>-  </del>	0	2	

Fee Federal Signature M.B. Garrett NM-03717B John Roe Printed Name Engineering Manager Title May 4, 1998 Date 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 4-21-80 Date of Survey Signature and Seal of Professional Surveyer: Original survey made & signed by Fred B. Kerry, Jr. Certificate Number3950

Attachonent No.3



Plot Displays Monthly Totals Copyright (C) 1998 by Petroleum Information/Dwights LLC

#### Attachment No. 5

# Proposed Allocation of Downhole Commingled Production Dugan Production's Garrett Federal Com 1E (B-12-29N-11W) Blanco Mesaverde & Basin Dakota Gas Pools API No. 30-045-24302

	Gas-MCF	Condensate-bbl	Water-bbl
Cum. Prod. 1-1-98 &	(% of total)		
Blanco MV	438,175 (55.2%)	656 (15.3%)	57 (44.9%)
Basin DK	356,192 (44.8%)	<u>3632 (84.7%)</u>	70 (55.1%)
Total	794,367	4288	127
1997 Production - 12	month & (% of total)		
Blanco MV	22,420 (56.3%)	0 (0%)	39 (42%)
Basin DK	17,386 (43.7%)	180 (100%)	<u>54 (58%)</u>
Total	39,806	180	93
Production - 3/98 & (	% of total)		
Blanco MV	1775 (55.6%)	0 (0%)	8 (50.0%)
Basin DK	1418 (44.4%)	17 (100%)	8 (50.0%)
Total	3193	17	16

#### Proposed commingled allocation - based upon 1997 annual production:

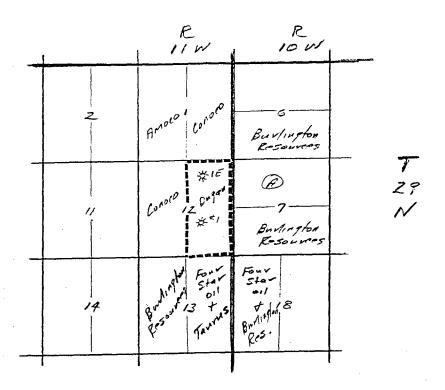
	<u>Gas</u>	<b>Condensate</b>	Water
Blanco MV	56%	0%	50%
Basin DK	44%	100%	50%

Attachment Wo. 6

Operators off setting Dugon productions

GARRETT Fed. Com. 110. 1E (B-12-2911-11W)

E/2-320 A Specing unit-Blanco MY + Basin DE



(P)-N/2 Sertion 7 = Spacing unit for Beta Dovelopment's

Potter Cangon No.1 which was PAA 4/77. There

are No Active Blanco MV or Bosin Dokota

Well's in the N/2-7-29N-10W

The current Leasehold Interest for NW/A-7-29N-10W:

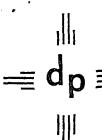
Burlington Resources, Elizabeth To Calloway,

Damson oil, C.W. Murchison Est., Pioneer Natural Resources,

Frank A. Schultz, Frank A. Schultz Trust, Schultz Monographic

Ltd, Fred E. Turner, Glonn J. Turner Ir, John Lee Turner,

Mary F. Turner Trust, William Webb.



## dugan production corp.

Attachment No.7 Pg1of2

May 12, 1998

To: Operators and owners of undeveloped leases (address list attached)
Offsetting Dugan Production's
Garrett Federal Com No. 1E
Unit B, Section 12, Township 29N, Range 11W
Blanco Mesaverde and Basin Dakota Gas Pools
San Juan Co., New Mexico

Dear Offset Operator or Lease Owner:

Attached is a copy of our application to the NMOCD and BLM requesting administrative approval to downhole commingle the existing Blanco Mesaverde and Basin Dakota completions in the captioned dually completed well.

Notice is being sent to you as an offsetting operator or holder of undeveloped offset leasehold interest. If you have objections to this proposal, you should notify the NMOCD at 2040 South Pacheco, Santa Fe, NM 87505 within 20 days of this letter date, with a copy to Dugan at our letterhead address.

Should you have questions or need additional information, please let me know.

Sincerely,

John D. Roe

Engineering Manager

Juliu D. Roe

JDR/tmf

cc: NMOCD

Plot Displays Monthly Totals Copyright (C) 1998 by Petroleum Information/Dwights LLC

Reported Oil Production = 3,601 Bbls Reported Gas Production = 349,390 Mcf Reported Water Production = 39 Bbls

AHANDONNIH NO.4

Atlachment No.7 Pgzofz

# OFFSET OPERATOR NOTIFICATION DUGAN PRODUCTION CORP.'S GARRETT FED. COM NO. 1E BLANCO MESAVERDE & BASIN DAKOTA GAS POOLS E/2 SPACING UNIT, SECTION 12, T-29N, R-11W SAN JUAN COUNTY, NEW MEXICO

Amoco Production P. O. Box 800 Denver, CO 80201-0800

Beta Development 238 Petroleum Plaza Farmington, NM 87401

Burlington Resources P. O. Box 4289 Farmington, NM 87499-4289

Elizabeth T. Calloway 4801 St. Johns Dallas, TX 75205

Conoco 10 Desta Drive Suite 100W Midland, TX

Damson Oil Corp. Box 4391 Houston, TX 77210-4391

Four Star Oil Co. 3300 N. Butler Farmington, NM 87401

C. W. Murchison Estate 6116 N. Central Expressway 1300 Dallas, TX 75206

Pioneer Natural Resources, Inc. Box 3178 Midland, TX 79702-3178 Frank A. Schultz 500 N. Akard #2160 Dallas, TX 75201

Frank A. Schultz Trust 500 N. Akard #2160 Dallas, TX 75201

Schultz Management Ltd. 500 N. Akard #2160 Dallas, TX 75201

Taurus Exploration 2198 Bloomfield Highway Farmington, NM 87401

Fred E. Turner 4925 Greenville Ave. Dallas, TX 75206-4079

Glenn J. Turner Jr. 3131 Turtle Creek 1201 Dallas, TX 75219

John Lee Turner 8585 N. Stemmons #925 Dallas, TX 75247

Mary F. Turner Trust Box 2320 Dallas, TX 75221-2320

William Webb 1900 Mercantile Bldg Dallas, TX 75247