DISTF CT I P.O. Box 1980, Hobbs, NM 88241-1980 DISTRICT II

State of New Mexico Energy, Minerals and Natural Resources Department

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

### **OIL CONSERVATION DIVISION**

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

APPROVAL PROCESS:

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

Dugan Production Corp.

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

APPLICATION FOR DOWNHOLE COMMINGLING

P. O. Box 420, Farmington, NM 87499-0420

XAdministrative \_\_\_Hearing **EXISTING WELLBORE** XYES \_\_\_NO

herman Edward		- Sec - Twp - Rge Co	O Arriba ounty cing Unit Lease Types: (check 1 or more)
RID NO. <u>006515</u> Propert	y C∞de <u>003836</u> API NO. <u>30-039-</u> 2	21411 Federal X , State, (and/or)	Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediale Zone	Lower Zone
. Pool Name and Pool Code	Gobernador Pictured Cliffs 77440		Blanco Mesaverde 72319
2. Top and Bottom of Pay Section (Perforations)	3212'-3380'	DEGENER	5274'-5641'
l. Type of production (Oil or Gas)	Gas		Gas
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Dil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing:	a. (Current) 424 PSIA @ 3292' (calculated)	a. [3] 3	a. 505 PSIA @ 3292 (calculated @ PC datum)
Measured Current All Gas Zones: Estimated Or Measured Original	(Original) b.1204 PSIA @ 3292' (calculated)	b.	b. 1241 PSIA @ 3292' (calculated @ PC datum)
6. Oil Gravity (°API) or Gas BTU Content	1080 BTU/CF		1109 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	Date: Rates:	Date: Rates:	Date: Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
<ul> <li>If Producing, give date andoil/gas/ water rates of recent test (within 60 days)</li> </ul>	Date: Average 3/99  Rates: 48 MCFD + 0.6 BWPD + 0.13 BCPD	Date: Rates:	Date: Average 3/99  Rates: 55 MCFD + 2.3 BWPD + 0 BCPD
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: 45%	Oil: Gas: %	Oil: Gas: 55%
If allocation formula is based u attachments with supporting day.	pon something other than currer ata and/or explaining method an	nt or past production, or is based d providing rate projections or ot	upon some other method, sul her required data.
Are all working, overriding, and If not, have all working, overrid Have all offset operators been g	royalty interests identical in all o ding, and royalty interests been r jiven written notice of the propose	commingled zones?  notified by certified mail? d downhole commingling?	Yes No Yes No Yes No
1. Will cross-flow occur? $\times$ Ye lowed production be recovered, an	es No If yes, are fluids on will the allocation formula be in	ompatible, will the formations no reliable. X Yes No (If No	t be damaged, will any cross- , attach explanation)
Are all produced fluids from all			
3. Will the value of production be			
4. If this well is on, or communitiz United States Bureau of Land I			
<ol><li>15. NMOCD Reference Cases for I</li></ol>	Rule 303(D) Exceptions:	ORDER NO(S)R-10770, F	R-10771, DHC-1969
16. ATTACHMENTS:  * C-102 for each zone * Production curve fo * For zones with no p * Data to support allo * Notification list of al * Notification list of we have a support allo * Notification list of we have additional states	e to be commingled showing its or each zone for at least one year production history, estimated pro position method or formulaAttac Il offset operatorsAttachments porking, overriding, and royalty in ements, data, or documents requ	spacing unit and acreage dedicate. (If not available, attach expland duction rates and supporting data hment No. 5 6 & 7 Interests for uncommon interest ca ired to support commingling.	tionAttachments 1 & 2 ation.)-Attachments 3 & 4 a.
I hereby certify that the information	n above is true and complete to t	the best of my knowledge and be	lief.
SIGNATURE John D	RoeTITLE	Engineering Manager D	ATE_May 28, 1999
TYPE OR PRINT NAME John Roe	9	TELEPHONE NO. ( 505 )	325-1821

			A-F-M						
	NEW MEXICO OIL CONSERVATION DIVISION  - Engineering Bureau -								
			ADMINISTRAT	IVE APPL	ICATIO	N COVI	ERSHEET		
	THE	s covi	ERSHEET IS MANDATORY FOR ALL A	OMINISTRATIVE APPL	JCATIONS FOR E	XCEPTIONS TO	DIVISION RULES AN	D REGULATIONS	
Appli	cation Acrony	ms:	INSP-Non-Standard	Proration Unit	] [NSL-No	n-Standard	Location]		
	Application Acronyms:  [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  [DD-Directional Drilling] [SD-Simultaneous Dedication]  [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  [PFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  [SWD-Salt Water Disposal] [IPHnjection Pressure Increase]  [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]								
[1]	TYPE OI [A		PPLICATION - Check Location - Spacing U	Those Which	h Apply for nal Drilling SD	r [A]			
	Cł [B		One Only for [B] or [C Commingling - Storage DHC CTB	ge - Measuren	nent	□ ols	OLM		
	[C	]	Injection - Disposal - WFX PMX	Pressure Incre	ease - Enha	inced Oil I	Recovery PPR		
[2]	NOTIFIC [A		ION REQUIRED TO  Working, Royalty	: - Check The or Overriding	ose Which A Royalty In	Apply, or iterest Ow	Does Not	Apply	
	[B	]	☐ Offset Operators, L	easeholders o	or Surface (	Owner			
	[C	]	☐ Application is One	Which Requi	res Publish	ned Legal	Notice		
	[D	]	Notification and/or U.S. Bureau of Land M.	Concurrent A	Approval by usioner of Public	BLM or Lands, State L	SLO and Office		
	[E]	]	Tor all of the above	, Proof of No	tification o	or Publicat	ion is Attach	ed, and/or,	
	[F]		☐ Waivers are Attach	ed					
[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.									
	Roe Type Name		Signature	En Rose	•	<u>Enginee</u> Title	ring Manag	er	5/28/99 Date

Afachaent

Form C-102 Supersedes C-123 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

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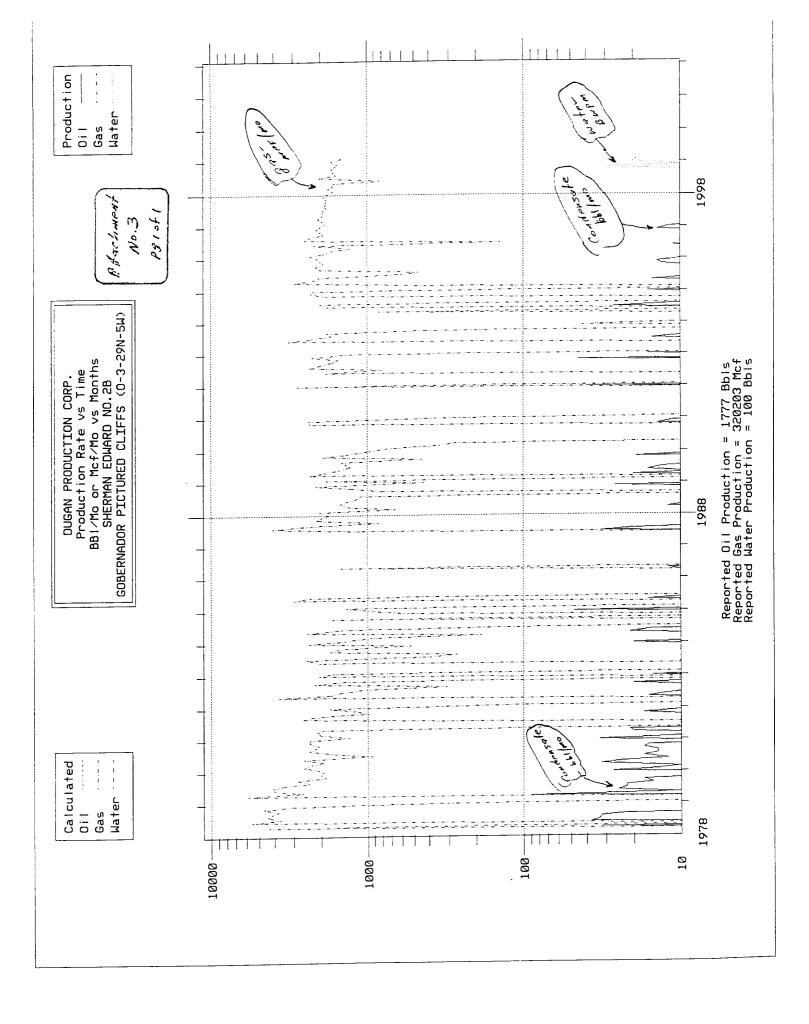
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Operator			} "	Sherman	Edward		28	
	oduction Corp	Oration Township		Range	Cour ty			
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Astual Footage Los								
940	feet from the	South	line and	2070	feet from the	East	line	
Ground Lovel Elev.	Producing For		Pc		~		Dedicated Acreage: 160	
6401	Pictur	ed Cliffs		Gobernado		, , , ,	·	Youes
1. Outline th	le acreage dedica	ted to the su	bject well	by colored penci	il or hachure	marks on th	e plat below.	
interest as	nd royalty). an one lease of d	ifferent owner	ship is ded	icated to the we		4	all owners been co	
dated by c	communitization, u	mitization, ior	ce-pooring.	cic.				
Yes	□ No If an	swer is "yes	;" type of co	onsolidation		<del></del>		
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If answer	is "no," list the	owners and tr	act descript	ions which have	e actually be	en consolida	ated. (Use reverse s	ade of
this form i	f necessary.)		<u> </u>				<del></del>	
No allowal	ole will be assign	ed to the well	until all int	erests have bee	n consolidat	s. has been	munitization, unitiz approved by the Co	mmis-
	ling, or otherwise)	or until a non	-standard u	nt, emmanis -	Jucin Interior			
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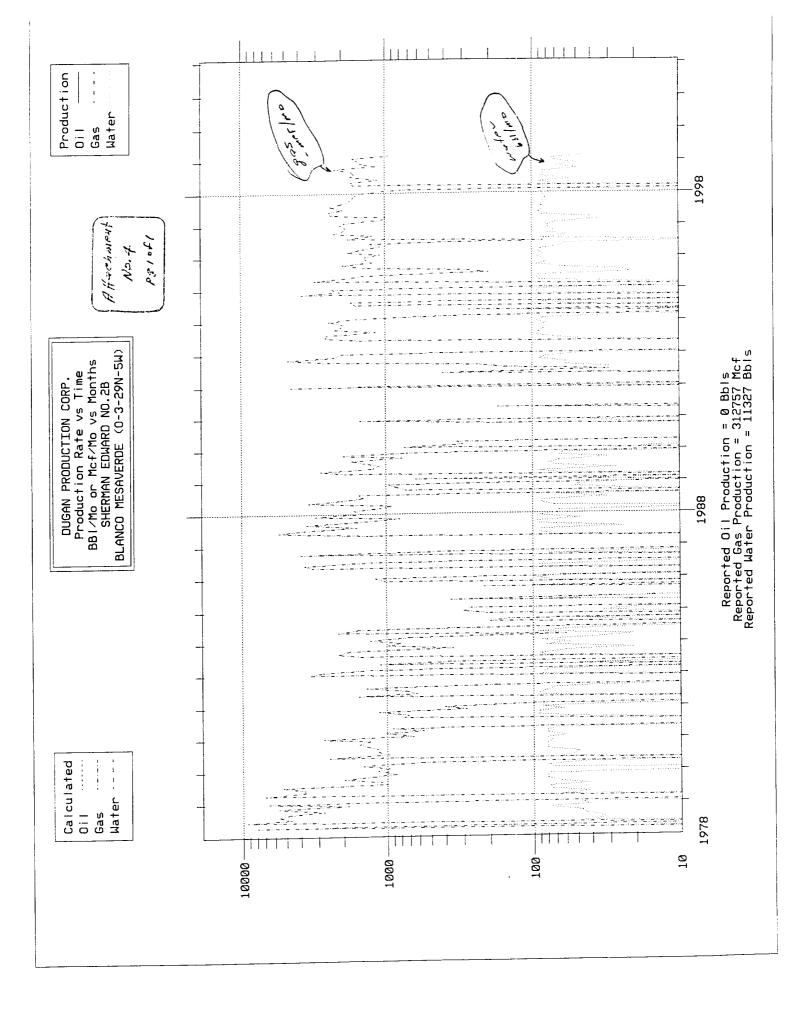
## N MEXICO OIL CONSERVATION COMMISS. WELL LOCATION AND ACREAGE DEDICATION PLAT

| P3 | 1 0 F | Form C-100 | Supersedes C-128 | Effective 1-1-65

All distances must be from the outer boundaries of the Section.

perator						
			Lease	<b>-</b> .	i	Well No. 2B
Dugan Produc	tion Core	oration	Sherma	n Ed		
Init Letter Sect	ion	Township	Range		County	
0	3	29 North	5 West		Rio Arriba	
vatual Footage Location (	of Well:		0070		Esat	
	from the	South line and	2070	feet	from the East	line Dedicated Acreage:
Fround Level Elev.	Producing For	mation	Pocl	14	w d o	220
6401	Mes	saverde	Blanco			
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2. If more than o interest and ro	ne lease is yalty).	dedicated to the well	l, outline each an	d ider	ntify the ownership t	hereof (both as to working all owners been consoli-
dated by comm	No If a	nswer is ''yes',' type o	f consolidation _			
this form if nec	essary.)	l. I II til all	interests have be	een c	onsolidated (by com	ated. (Use reverse side of munitization, unitization, approved by the Commis-
					<del></del>	CERTIFICATION
		SEC. 3	ON. DIV.		Thoma Position Petro Company Dugan Date	s A. Dugan  leum Engineer  Production Corp.
		Θ- 9 <sup>Δ1</sup>		; <u>;</u> ;;	Date Survey  December  Registered and/or Lan	r 11, 1976 Professional Engineer
<u> </u>					Costificate	No. 3602
	N # 10 - 20		May defended the	e productive	FI FITTI	E.V.Echohawk LS
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# Attachment No. 5 Proposed Allocation of Downhole Commingled Production Dugan Production's Sherman Edward No. 2B (O-3-29N-5W) Gobernador PC & Blanco MV API No. 30-039-21411

	Gas-MCF	Condensate-bbl	Water-bbl				
Cum. production 1-1-99 & % of total							
Gobernador PC Blanco MV (last production 8/92) Total	321,768 (50.7%) 312,757 (49.3%) 634,525	1779 (100%) 0 (0%) 1779	110 (1.0%) 11,327 (99.0%) 11,437				
1998 Annual Production (12 months) & % o	f total						
Gobernador PC Blanco MV Total	19,611 (54.2%) 16,602 (45.8%) 36,213	47 (100%) 0 (0%) 47	82 (9.7%) 767 (90.3%) 849				
Anticipated Commingled Production & % of total							
Gobernador PC (current average) Blanco MV Total	50 MCFD (45.5%) 60 MCFD (54.5%) 110 MCFD	0.13 (100%) 0 (0%) 0.13	1.0 BWPD (25%) 3.0 BWPD (75%) 4.0 BWPD				
Proposed Commingled Production Allocation							
Gobernador PC Blanco MV	45% 55%	100% 0%	25% 75%				

Attachment No.6

Operators Offsetting Dugar freduction's

Sherman Edward No.2B (0-3-29N-5W)

SELA + S/2 Specing units - Gobernador Pe & Blanco MV

33 34 35  phillips phillips phillips  Son Than Son Than Jon Than  30-5 unit 30-5 unit 30-5 unit	T 30 N
	T 2 9 N
8 - 11/1/19 (A) 1/1/19/20 (A) 1/19/20 (A) 1/	

All of Sertion 11, T-29N, R-SW 15

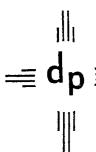
undeveloped in the Gobernador PC +

Blanco MU pools. Federal Lease SF-078736

Comprises the Whole Jertion + According

to BLM Repords, Operating Rights are

held by Phillips Petroleum.



## dugan production corp.

May 28, 1999

#### CERTIFIED RETURN RECEIPT

To:

Operators and owners of undeveloped leases (address list attached)

Offsetting Dugan Production's Sherman Edward No. 2B

Unit O, Section 3, Township 29N, Range 5W

Gobernador Pictured Cliffs and Blanco Mesaverde Gas Pools

Rio Arriba 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 Gobernador Pictured Cliffs and Blanco Mesaverde 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 with a copy to Dugan at our letterhead address within 20 days of this letter date. If you have no objections to this proposal, we would appreciate your signing the waiver below on the duplicate copy of this letter and return to us in the enclosed postage paid envelope.

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

Sincerely,

John D. Roe

Engineering Manager

Julin D. Re-E-

The undersigned offset operator/undeveloped lease holder has no objection to Dugan Production's proposed downhole commingling of Gobernador Pictured Cliffs and Blanco Mesaverde production in their Sherman Edward No. 2B.

	 Signed
	 Company
	Date
IDR/tmf	

JDR/tml

cc: NMOCD - Santa Fe

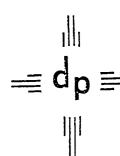
Affacturent No.7 Pg z of 3

# OFFSET OPERATOR NOTIFICATION DUGAN PRODUCTION CORP.'S SHERMAN EDWARD NO. 2B GOBERNADOR PICTURED CLIFFS & BLANCO MESAVERDE GAS POOLS SE/4 & S/2 SPACING UNITS, SECTION 3, T-29N, R-5W RIO ARRIBA COUNTY, NEW MEXICO

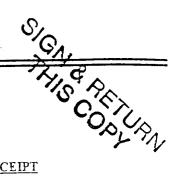
Burlington Resources P. O. Box 4289 Farmington, NM 87499-4289

Phillips Petroleum Corp. 5525 US Highway 64 Farmington, NM 87401

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



# dugan production corp.



May 28, 1999

### CERTIFIED RETURN RECEIPT

To:

Operators and owners of undeveloped leases (address list attached)

Offsetting Dugan Production's Sherman Edward No. 2B

Unit O, Section 3, Township 29N, Range 5W

Gobernador Pictured Cliffs and Blanco Mesaverde Gas Pools

Rio Arriba Co., New Mexico

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

Sincerely,

John D. Roe

Engineering Manager

John D. Roe

The undersigned offset operator/undeveloped lease holder has no objection to Dugan Production's proposed downhole commingling of Gobernador Pictured Cliffs and Blanco Mesaverde production in their Sherman Edward No. 2B.

\_\_\_\_Signed \_\_\_\_\_Company \_\_\_\_\_Date

JDR/tmf

cc: NMOCD - Santa Fe