	I	NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau - 2040 South Pacheco, Santa Fe, NM 87505
	A	DMINISTRATIVE APPLICATION COVERSHEET
		VANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
мррис	[PC-Poo [\	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] nole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] I Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] NFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposai] [IPI-Injection Pressure Increase] fied Enhanced Oll Recovery Certification] [PPR-Positive Production Response]
[1]	_	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD SD DEC 6 1993
	Check [B]	Cone Only for [B] or [C] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
[2]	NOTIFICAT [A]	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[B]	Scoffset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	Generation of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	U Waivers are Attached

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. <u>I understand that any omission of data</u> (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

hadhul

DISTRICT I

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

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION** 2040 S. Pacheco Santa Fe. New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A New 3-12-96 **APPROVAL PROCESS** : X_ Administrative __Hearing **EXISTING WELLBORE** X_YES __NO

BURLINGTON RESOURCES OIL & GAS COMPANY PO Box 4289, Farmington, NM 87499

Grenier A

D, Sec. 34, T30N, R10W Unit Ltr. - Sec - Twp - Rg 3M Well No.

San Juan

OGRID NO. _________

Twp - Rae

Spacing Unit Lease Types: (check 1 or more)

_ API_NO<u>. 30-045-2583300</u>_ Federal_ , State (and/or) Fee Property Code_ 18531 Х

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower
1. Pool Name and Pool Code	Blanco Mesa Verde-72319	A DEGREGATION FOR THE LEVEL OF A STRATEGIC AND A	Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4220'-4902'	· · · · · · · · · · · · · · · · · · ·	6888'-7185'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 363 psia @ 4561'	a.	a. 690 psia @ 7037'
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured	(Original) b. 1162 psia @ 4561'	b.	b. 2501 psia @ 7037'
6. Oil Gravity ([°] API) or Gas BTU Content	1214 Btu		1081 Btu
7. Producing orShut-In?	Producing	<u>+</u>	Shut-In
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In 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: 01/01/97 Rates: 15 MCFD, 0 BOD, 0 BWD
* If Producing, give data and oll/gas/water water of recent test (within 60 days)	Date: 10/31/98 Rates: 67 MCFD, 0 BOD, 0 BWD	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply after commingling	Oil: Gas:	Oil: Gas: Will supply after commingling

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. 9.

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 Yes No No XYes No

Will cross-flow occur? _X_ Yes ___ 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 reliable. X_ Yes ____No (If No, attach explanation) 11. Will cross-flow occur?

<u>X</u> Yes ___ 12. Are all produced fluids from all commingled zones compatible with each other? No

13. Will the value of production be decreased by commingling? ____ Yes X__ No (If Yes, attach explanation)

14. If this well is on, orcommunitized 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<u>X</u> Yes ___ No

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 explation.)
* 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 malty interests for uncommon interest cases.
* Any additional statements, data, or documents required support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Ling 1. milleff	TITLE_Operations Engineer_DATE	12-14-98
TYPE OR PRINTNAME Kevin L. Midkiff	TELEPHONE NO. (505) 326-9700	

	STAIL	E OF	NEW	MEXICO	
Energ	Y AND	MIN	TRALS	DEPARTME	IT.

1

P. O. BOX 2008

SANTA FE, NEW MEXICO 87501

Form C-107 kevised 10-1-

۰.

A 11	distances	must he	from the	a cular	houndartes	ed 13.0	Section

		distances must be	TUM THE CULEY DOUR			
Operator			Lease			Well No.
······	ROYALTY COMPANY		GRENIER "			<u>3M</u>
Unit Letter	Section To	wnship 30N	Range 10W		San Juan	
Actual Footage Loc						· · · · · · · · · · · · · · · · · · ·
1110	feet from the Nort	h line and	930	feet fro	m the West	line
Ground Level Elev:	Producing Formati	on	Pool			Dedicated Acreage:
6049'GL	Dakota		Basin		• . • • • •	320 Acres
2. If more th interest a	nd royalty).	dicated to the wo	ell, outline each	and identi	fy the ownership	thereof (both as to working
dated by o Yes If answer this form i No allowa	No If answ is "no," list the own f necessary.) ble will be assigned to	ization, force-poo er is "yes," type ners and tract dea to the well until a	ling. etc? of consolidation scriptions which Ill interests have	have actu	ally been consoli solidated (by co	of all owners been consoli- idated. (Use reverse side of ommunitization, unitization, en approved by the Commis-
sion.						
						CERTIFICATION
930' O	 	SF_077282	· · · · · · · · · · · · · · · · · · ·		R. E. I Position Distric Company Southla	y certify that the information con- herein is true and complete to the my knowledge and bettef. E Fielder Ct Engineer and Royalty Company 29, 1983
		BURE	ECE-1	83 NAGEMEN	shown notes of under n is true knowled Date Surv Augus Registere and Composite Fred	d Professional Engineer and Surveyor.
· · · · · · · · · · · · · · · · · · ·	Scale:	1"=1000"	<u></u>		Certificat 3950	NOL ALLA VILLE

Property ID: 6 Property Name: G	Tue Dec 01 10:4 53 GRENIER A 3M	25687-1 /	Nesa Verde	
Table Name: S	S:\JSMITH\ARIES	S\99WORK\TESI	.DBF	,
<u>DATE</u> <u>CUM</u> Mc	<u>GAS M_SIWHP</u> cf Psi			
04/30/83	0 1007.0	INITIAL		
		+PITTAL		
, ,	39348 761.0			
, ,	23745 589.0			
03/12/86 1	.37271 496.0			
05/10/89 2	36405 441.0			
06/17/91 2	279281 400.0			
07/10/91 2	81651 412.0			
	334209 356.0		0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	53883 312 .0	Based on	Pressure v	S CUM GAS CURVE

· · ·

.

.

Page No.: 1 Print Time: Tue Dec 01 11:38:37 1998 Property ID: 615 Property Name: GRENIER A 3 25652-1 DAkota Offset Well Table Name: K:\ARIES\RR99PDP\TEST.DBF										
<u>DATE</u> <u></u>										
	Mcf	Psi								
03/31/64 04/17/70 04/18/71 04/18/72 09/26/73 08/02/75 04/17/77 05/16/79 09/01/81 05/02/83 10/03/84 07/25/85	468589	2011.0740.0725.0612.0563.0591.0592.0464.0625.0755.0722.0740.0	Tritial							

, **.**

01/13/88 06/08/90

04/28/92

9)30/98

•

1093708 648.0 1119155 678.0 1209758 545.0 BASED ON PRESSURE VS CUMGAS CURVE trom Offset Well

747.0

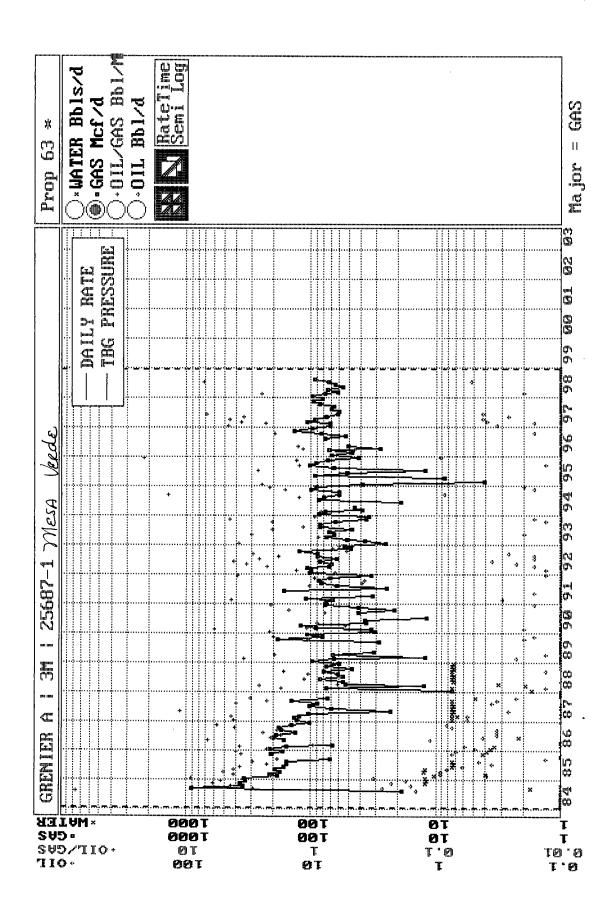
1046856

Grenier A 3M Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method

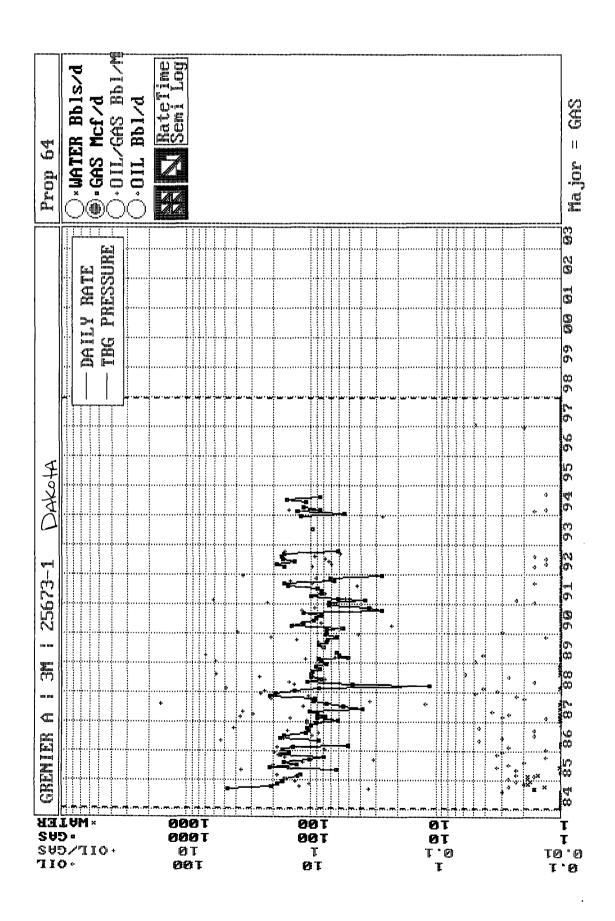
۰,

Version 1.0 3/13/94

Mesaverde	Dakota
MV-Current	DK-Current
GAS GRAVITY0.7COND. OR MISC. (C/M)M%N20.34%CO20.86%H2S0DIAMETER (IN)4.408DEPTH (FT)4561SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)131FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)324BOTTOMHOLE PRESSURE (PSIA)363.4	GAS GRAVITY0.7COND. OR MISC. (C/M)M%N20.34%CO20.86%H2S0DIAMETER (IN)4.408DEPTH (FT)7037SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)169FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)577BOTTOMHOLE PRESSURE (PSIA)689.8
<u>MV-Original</u>	<u>DK-Original</u>
GAS GRAVITY0.7COND. OR MISC. (C/M)M%N20.34%CO20.86%H2S0DIAMETER (IN)4.408DEPTH (FT)4561SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)131FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)1019BOTTOMHOLE PRESSURE (PSIA)1162.0	GAS GRAVITY0.7COND. OR MISC. (C/M)M%N20.34%CO20.86%H2S0DIAMETER (IN)4.408DEPTH (FT)7037SURFACE TEMPERATURE (DEG F)60BOTTOMHOLE TEMPERATURE (DEG F)169FLOWRATE (MCFPD)0SURFACE PRESSURE (PSIA)2023BOTTOMHOLE PRESSURE (PSIA)2500.8



۰,



• ,

FARMINGTON GRENIER A	3M		ANNUAI	L PRODUCTION	FOR 25673	Dakota	PHS020M1
BASIN DAKOTA	(PRORATED	GAS)			DAKOTA ZONE		
====== OIL CU	JM ======		====	=== GAS CUM		==== WATER	CUM =====
PC DATE	BBLS		PC	DATE	MCF	DATE	BBLS
		=====				=======================================	
YEAR	OIL	OIL	CUM	GAS	GAS CUM	WATER	WATER CUM
1994	13		471	22618	332594		1209
1995			471		332594		1209
1996	6		477		332594		1209
1997	15		492		332594		1209
1998			492		332594		1209

· · · ·

.

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTIONENTER - CONTINUES ANNUAL DISPLAYPF3 - TRANSFER TO UPDATEPF6 - RETURN TO WELL-INFO DISPLAYPF9 - ANNUAL INJECTION DISPLAYPF10 - HELP INFORMATION

1998 MONTHLY PRODUCTION FOR 25673 DAKOTA PHS030M1

•

FARMINGTON GRENIER A 3M

• • • •

.

BASIN DAKOTA (PRORATED GAS) FIELD DAKOTA ZONE

	DAYS	======	OIL ===	====	=========		GAS			•
мот ѕ		PC	PROD	GRV	PC	PROD	ON	BTU PRESS	WATER PROD	С
1 2 S		02	£ ROD	GIV	01	INOD	011	15.025	WAIER FROD	C
225		02			01					
								15.025		
32 F	' 1	02			01		1	15.025		
42 E	30	02			01		30	15.025		
52 F	31	02			01		31	15.025		
62S	12	02			01		12	15.025		
72S		02			01			15.025		
82S		02			01			15.025		
92S		02			01			15.025		
10										
11										
12										
P	F6 -	RETURNS	TO ANNU	AL DT	SPLAY		PF3	- TRANSFER	ΤΟ ΠΡΟΔΤΕ	•
_					~~					
PF	10 -	HELP IN	FORMATIO	N			PF9	- DISPLAY MO	ONTHLY INJECT	'ION

00/00/00 00:00:00:0 PRS 11/04/98

FARMINGTON	214	ANNUA	L PRODUCTION	FOR 25687	AESA VERde	- PHS020M1
GRENIER A BLANCO MESAV	•	RATED GAS F		ESAVERDE ZONI		
	CUM =====		=== GAS CUM	======	==== WATEF	
PC DATE	BBL	S PC	DATE	MCF	DATE	BBLS
				=======================================		
YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1991	24	891	24822	290306		8059
1992	51	942	30768	321074		8059
1993	27	969	20835	341909		8059
1994	42	1011	22834	364743		8059
1995	39	1050	17997	382740		8059
1996	9	1059	21887	404627		8059
1997	61	1120	28756	433383		8059
1998	22	1142	20500	453883		8059

۰,

.

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTIONENTER - CONTINUES ANNUAL DISPLAYPF3 - TRANSFER TO UPDATEPF6 - RETURN TO WELL-INFO DISPLAYPF9 - ANNUAL INJECTION DISPLAY

PF10 - HELP INFORMATION

1998 MONTHLY PRODUCTION FOR 25687 MESA VERDE PHS030M1

FARMINGTON

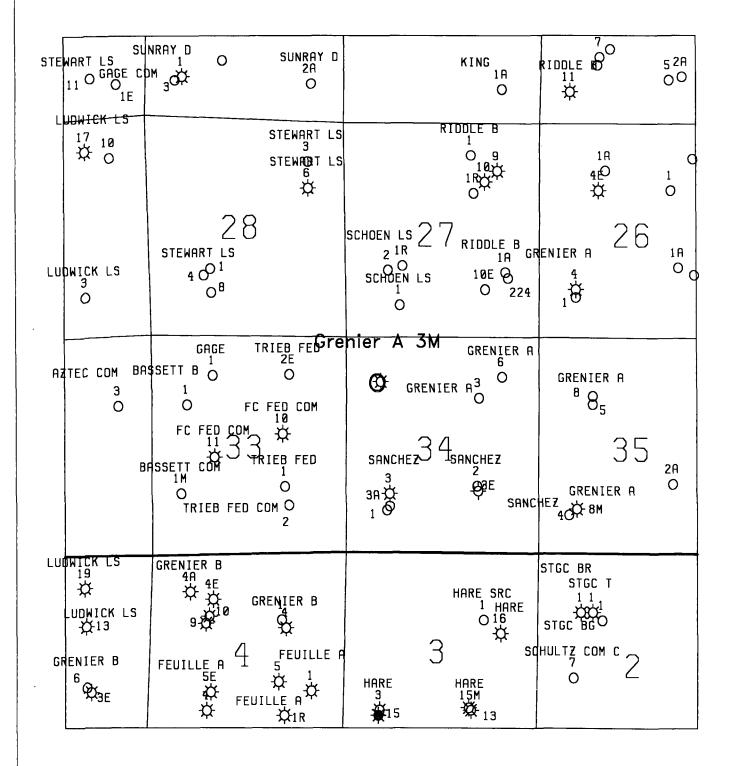
•

GRENIER A 3M BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

			DAYS		OIL ===	====	=======	====	GAS	=====	======		
MO	Т	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER PROD	С
1	2	F	31	02			01	2973	31	1195	15.025		
2	2	F	28	02	6		01	2398	28	1195	15.025		
3	2	F	31	02			01	1876	31	1195	15.025		
4	2	F	27	02			01	2266	27	1192	15.025		
5	2	F	31	02			01	1705	31	1192	15.025		
6	2	F	30	02		42.5	01	1982	30	1192	15.025		
7	2	F	31	02	16		01	2194	31	1192	15.025		
8	2	F	31	02			01	2894	31	1192	15.025		
9	2	F	30	02			01	2212	30	1192	15.025		
10	•												
11													
12													
	PF6 - RETURNS TO ANNUAL DISPLAY								PF3 - TRANSFER TO UPDATE				

PF10 - HELP INFORMATION

- 00/00/00 00:00:00:0 PRS 11/04/98
- PF9 DISPLAY MONTHLY INJECTION



. ***** .

Grenier A 3M Sec 34 T3ON R1OW Mesa Verde/Dakota

BURLINGTON RESOURCES OIL AND GAS COMPANY

Grenier A #3M OFFSET OPERATOR \ OWNER PLAT Downhole Commingle

Mesaverde / Dakota Formations Well

Township 30 North, Range 10 West

