DH C 2/24/97

BURLINGTON RESOURCES

SAN JUAN DIVISION

January 31, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re:

Grenier B #4

1850'FNL, 1580'FEL Section 4, T-29-N, R-10-W, San Juan County, NM

API #30-045-08772

Dear Mr. LeMay.

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This is well was originally drilled as a dual Dakota and Mesa Verde.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

- 1. Form C107A Application for Downhole Commingling;
- 2. C-102 plat for each zone showing its spacing unit and acreage dedication;
- 3. Production curve for the Dakota and Mesa Verde for at least year;
- 4. Notification list of offset operators Burlington is the offset operator:
- 5. Shut in wellhead pressure and calculated down hole pressure;
- 6. Nine-section plats for the Mesa Verde and Dakota.

As an offset operator of this you are being notified of this application as a requirement of the New Mexico Oil Conservation Division.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield

Regulatory/Compliance Administrator

encs.

#### DISTRICT I

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

**Burlington Resources Oil & Gas Company** 

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107-A New 3-12-96

### **OIL CONSERVATION DIVISION**

APPROVAL PROCESS:

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

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 \_X\_ Administrative \_\_\_Hearing EXISTING WELLBORE

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

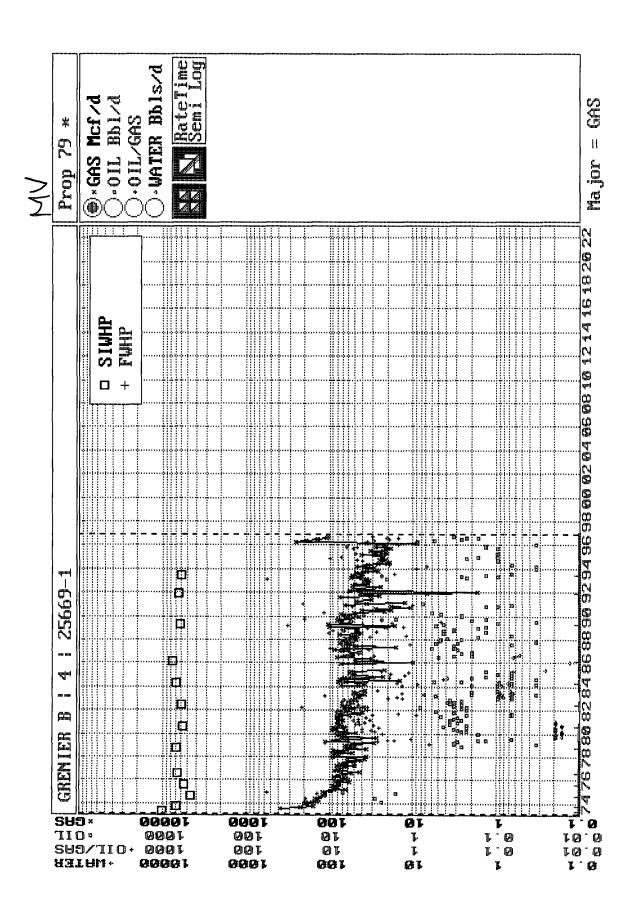
\_X\_YES \_\_\_ NO

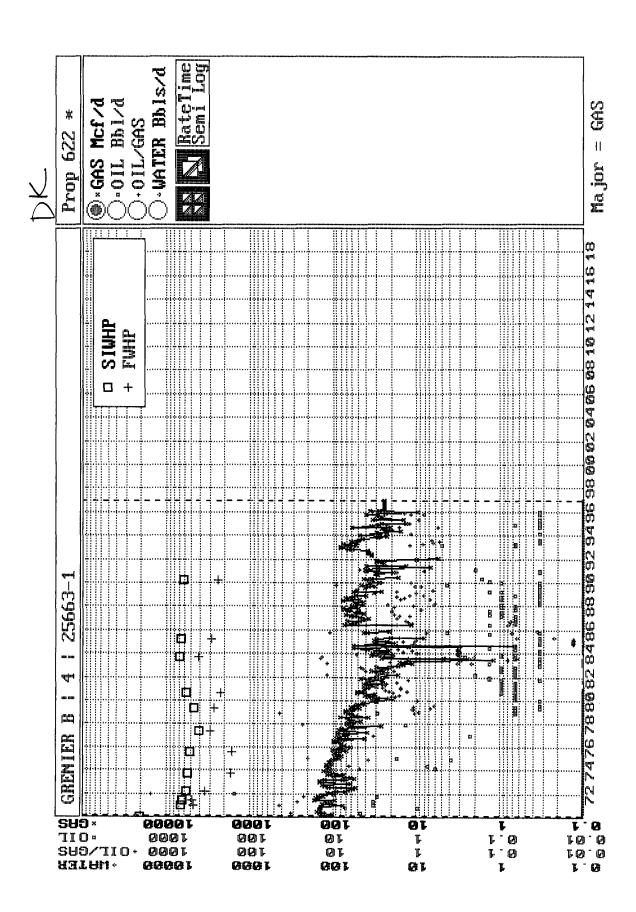
PO Box 4289, Farmington, NM 87499

perator Address					
Grenier B	4 G 4-29-10 San Juan				
ease	Well No. Unit Lt	tr Sec - Twp - Rge	County		
OGRID NO. 14538 Property Co	ode 18532 API NO. 30-1		Unit Lease Types: (check 1 or more)  te . (and/or) Fee		
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone		
Pool Name and     Pool Code	Blanco Mesaverde - 72319		Basin Dakota - 71599		
Top and Bottom of Pay Section (Perforations)	4650-4720'		6782-6940'		
Type of production     (Oil or Gas)	gas		gas		
Method of Production     (Flowing or Artificial Lift)	flowing		flowing		
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 716 psi (see attachment)	a.	a. 742 psi (see attachment)		
Gas & Oil - Flowing:  Measured Current All Gas Zones:	(Original) b. 1248 psi (see attachment)	b.	b. 2496 psi (see attachment)		
Estimated or Measured Original  6. Oil Gravity (°API) or Gas BTU Content	BTU 1226		BTU 1119		
7. Producing or Shut-In?	Producing		Producing		
Production Marginal? (yes or no)	no		yes		
* If Shut-In and oil/gas/water rates of last production	Date: n/a Rates:	Date:	Date: n/a Rates:		
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data		, waster	, mates.		
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 10/96 Rates: 116 MCF/D 0.24 BOPD	Date: Rates:	Date: 11/96 Rates: 8 MCF/D 0.12 BOPD		
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: % will be supplied upon completion	Oil: Gas: %	Oil: Gas: %		
<ol> <li>If allocation formula is based up attachments with supporting data.</li> <li>Are all working, overriding, and If not, have all working, overriding and Have all offset operators been good.</li> </ol>	royalty interests identical in all cong, and royalty interests been no given written notice of the propos	ommingled zones? tified by certified mail? ed downhole commingling?	_X_YesNo YesNo _x_YesNo		
<ol> <li>Will cross-flow occur? _x_ Y production be recovered, and v</li> </ol>					
<ul><li>12. Are all produced fluids from all of</li><li>13. Will the value of production be d</li></ul>	- · · · · · · · · · · · · · · · · · · ·				
<ol> <li>Will the value of production be a</li> <li>If this well is on, or communitize of Land Management has been n</li> </ol>			•		
5. NMOCD Reference Cases for Ru	le 303(D) Exceptions: ORDER N	O(S)			
6. ATTACHMENTS:  * C-102 for each zone t  * Production curve for  * For zones with no pro  * Data to support alloc  * Notification list of all  * Notification list of wo  * Any additional staten	to be commingled showing its spa each zone for at least one year. of duction history, estimated produ ation method or formula. offset operators. rking, overriding, and royalty inte ents, data, or documents require	acing unit and acreage dedicatio (If not available, attach explanati ction rates and supporting data. erests for uncommon interest cas ed to support commingling.	n. on.) ees.		
hereby certify that the inform	ation above is true and com	nlete to the best of my know	dodge and belief		
TYPE OR PRINT NAME P. M.	Pinnin TELE	HONE NO. (505 ) 226	E1/30/97		

## WELL LOCATION AND ACREAGE DEDICATION

All distances must be from the outer boundaries Operator Aztec Oil & Gas Company Grenier B Unit Letter Section Township County G 29 North 10 West San Juan Actual Footage Location of Wells 1850 North feet from the line and 1580 feet from the East Ground Level Elev: Producing Formation Dedicated Acreage: 293.29 5931 GR Mesaverde **Blanco** 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof both as to worki interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of a dated by communitization, unitization, force-pooling. etc? OIL CON, SOM If answer is "yes," type of consolidation ☐ Yes If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis CERTIFICATION I hereby certify that the information contained herein is true and complete to the Joe C. Salmon Position District Superintendent Aztec Oil & Gas Company April 27, 1973 I hemby certify that the well location shown on this plat was plotted from field is true and correct to the be knowledge and belief. Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No. 1820-1680 2000 1500 1000



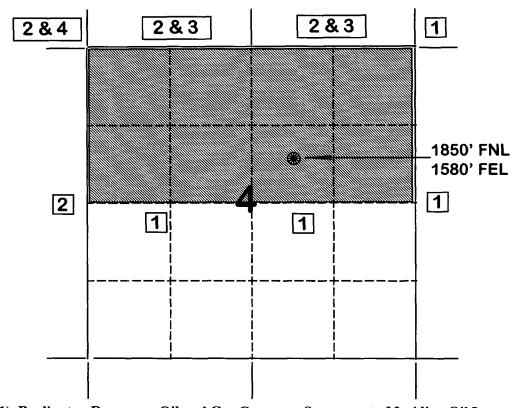


### **BURLINGTON RESOURCES OIL AND GAS COMPANY**

# Grenier B #4 OFFSET OPERATOR \ OWNER PLAT

### Mesaverde/Dakota Formations Commingle Well

Township 29 North, Range 10 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Amoco Production Company

Attn: Bruce Zimney

P.O. Box 800

**Denver, CO 80201** 

3) Conoco Inc.

10 Desta Drive, Suite 100W

Midland, TX 79705-4500

4) Four Star Oil & Gas Company

P.O. Box 2100

Denver, CO 80201

## FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VEXSION 10 3/13/54

GAS GRAVITY	0.71
COND. OR MISC. (C/M)	С
%N2	0.87
%CO2	0.74
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6985
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	596
•	
BOTTOMHOLE PRESSURE (PSIA)	716.3

GRENIER B #4 MESAVERDE (CURRENT)

## FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

YERSION 10 3/13/94

GAS GRAVITY	0.71
COND. OR MISC. (C/M)	C
%N2	0.87
%CO2	0.74
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6985
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1023
BOTTOMHOLE PRESSURE (PSIA)	1248.0

GRENIER B #4 MESAVERDE (ORIGINAL)

Organize Data ScreenGraph Economics Report Plot Utility
Browsing: GRENIER B | 4 | 25669-1 Property No.:
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/13/691
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203 Property No.: 79

Quit

<u>DATE</u>	CUM_GAS	M_SIWHP
	Mcf	Psi
04/17/73	0	1023.0
09/26/73	22908	693.0
08/02/74	67145	465.0
08/02/75	103176	568.0
08/02/76	129417	672.0
10/03/78	181813	691.0
08/16/80	228325	582.0
06/08/82	274339	605.0
04/04/84	301639	701.0
03/12/86	326928	763.0
05/10/89	389764	622.0
11/12/91	425898	650.0
05/31/93	447803	596.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<-->=Fast Tbl R & L

# FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VZR3ION LO 3/13/94

GAS GRAVITY	0.65
COND. OR MISC. (C/M)	С
%N2	0.17
%CO2	1.88
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6985
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	634
BOTTOMHOLE PRESSURE (PSIA)	742.2

GRENIER B #4 DAKOTA (CURRENT)

# FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION to 3/13/94

GAS GRAVITY	0.65
COND. OR MISC. (C/M)	С
%N2	0.17
%CO2	1.88
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6985
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2091
BOTTOMHOLE PRESSURE (PSIA)	2496.4

GRENIER B #4 DAKOTA (ORIGINAL)

Ouit

Organize Data ScreenGraph Economics Report Plot Utility
Browsing: GRENIER B | 4 | 25663-1 Property No.: 6
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/12/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203 Property No.: 622

DATE	CUM_GAS	M_SIWHP
	Mcf	Psi
04/26/62	0	2091.0
12/25/70	566917	664.0
05/26/71	584303	638.0
03/18/72	623136	590.0
09/26/73	674152	572.0
08/02/75	746230	527.0
05/17/77	795732	405.0
05/17/79	840724	464.0
08/16/80	858649	582.0
08/24/83	889359	700.0
04/03/85	906378	680.0
03/21/90	978743	634.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<-->=Fast Tbl R & L

DATE: January 31,1997  NAME: GRENIER B 4  FORM: MESAVERDE/DAKOTA	LOCATION UNIT: SEC: TWN: RNG:							LEGEND * WELL NAME
* Greiner A 3M(милк)	# Greiner A 3(MVDK 30 134)	* Sanchez 3A(M/)		* Hare 16 (MAVDIN) T [3] 29		* * * Hare 15M(mv/DK)	* Hare 18(mv/pk)  * Hare 14(mv/pk)	* Hare 18M(mv/DK)
* Bassett Com 1(pk) Trieb Federal 2E (MV/pk) G	# Bassett B 1(mv) [33] # Bassett B 1M(mv) Bassett Com 1M(ckr)	* Trieb Federal Com 2(DK)	* * * Grenier B 4R(DK)	Grenier [4]	Feuille A 5E(DK) Feuille A 5(DK)		* Nye S#3(pk) Nye Federal Com 3(Mv) [9]	* Rock Island Federal 1(DK)
	[32] * New Mexico Com J 1(DK)	* Stewart A Com A LS 2(MV)	* Ludwick 19(DK) Gre	Ludwick <b>[5]</b>	Grenier B 3(m/nk) Grenier B 3E(m/nk)		*  Nye Federal Com 2(M/IDK)  (B)  *  Nye Federal Com 1 (DK)	