



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR
ANITA LOCKWOOD
CABINET SECRETARY

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SANTA FE, NEW MEXICO 87504
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OIL CON. DIV.
DEC 8

COMMINGLING ORDER PLC-105

UNOCAL Oil & Gas Division
3300 North Butler, Suite 200
Farmington, NM 87401

Attention: Brett H. Liggett

The above-named company is hereby authorized to commingle Basin Fruitland Coal Gas, South Blanco-Pictured Cliffs, Otero Chacra, Blanco-Mesaverde, South Blanco Tocito Gallup, Largo Gallup and Basin-Dakota Pool production from the following 178 wells listed on Exhibit "A" attached hereto.

Production shall be allocated to each well by utilizing individual well allocation meters and deriving allocation factors as shown on Exhibit "B" attached hereto.

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

NOTE: This installation shall be installed and operated in accordance with the applicable provisions of Rule 309-B of the Division Rules and Regulations and the Division "Manual for the Installation and Operation of Commingling Facilities." It is the responsibility of the producer to notify the transporter of this commingling authority.

REMARKS: The commingled liquid production from the subject wells shall be stored in the CDP No. 4 tank battery facility, and commingled gas production sold at Central Delivery Point No. 4 custody transfer meter located in Unit M of Section 30, Township 27 North, Range 6 West, NMPM, Rio Arriba County, New Mexico.

DONE at Santa Fe, New Mexico, on this 21st day of March, 1994.

William J. Lemay
WILLIAM J. LEMAY,
Division Director

cc: Oil Conservation Division - Hobbs
Oil Conservation Division - Data Processing
NM State Land Office - Oil & Gas Division
US Bureau of Land Management - Carlsbad

Rincon Unit Well No.	Producing Pool(s)	S-T-R
41	South Blanco Pictured Cliffs	35-27N-07W
42	South Blanco Pictured Cliffs	35-27N-07W
43	South Blanco Pictured Cliffs	25-27N-07W
44	South Blanco Pictured Cliffs	25-27N-07W
48	South Blanco Pictured Cliffs	30-27N-06W
49	South Blanco Pictured Cliffs	31-27N-06W
51	South Blanco Pictured Cliffs	06-26N-06W
52	South Blanco Pictured Cliffs	20-27N-06W
54	South Blanco Pictured Cliffs	14-27N-07W
55	South Blanco Pictured Cliffs	02-26N-07W
56	South Blanco Pictured Cliffs	02-26N-07W
57	Basin Dakota	01-26N-07W
58	South Blanco Pictured Cliffs	24-27N-07W
59	South Blanco Pictured Cliffs	24-27N-07W
60	South Blanco Pictured Cliffs	25-27N-07W
61	South Blanco Pictured Cliffs	30-27N-06W
62	South Blanco Pictured Cliffs	28-27N-06W
64	South Blanco Pictured Cliffs	23-27N-07W
65	South Blanco Pictured Cliffs	23-27N-07W
67	South Blanco Pictured Cliffs	22-27N-07W
68	South Blanco Pictured Cliffs	27-27N-07W
70	South Blanco Pictured Cliffs	27-27N-07W
72	South Blanco Pictured Cliffs	33-27N-07W
75	South Blanco Pictured Cliffs	34-27N-07W
76	South Blanco Pictured Cliffs	34-27N-07W
77	South Blanco Pictured Cliffs	34-27N-07W
78	Blanco Mesaverde	14-27N-07W
79	Blanco Mesaverde	17-26N-06W

Rincon Unit Well No.	Producing Pool(s)	S-T-R
114	South Blanco Pictured Cliffs	20-27N-06W
115	South Blanco Pictured Cliffs/Blanco Mesaverde	21-27N-06W
116	South Blanco Pictured Cliffs	21-27N-06W
120	South Blanco Pictured Cliffs	22-27N-06W
123	Blanco Mesaverde	13-27N-07W
124	Blanco Mesaverde	34-27N-07W
126	Blanco Mesaverde/Basin Dakota	27-27N-06W
127M	Blanco Mesaverde/Basin Dakota	28-27N-06W
128	Blanco Mesaverde/Basin Dakota	28-27N-06W
129	Blanco Mesaverde/Basin Dakota	29-27N-06W
129M	Blanco Mesaverde/Basin Dakota	29-27N-06W
130	Blanco Mesaverde/Basin Dakota	32-27N-06W
130E	South Blanco Tocito Gallup/Basin Dakota	32-27N-06W
133	Basin Dakota	14-27N-07W
135	Blanco Mesaverde/Basin Dakota	29-27N-06W
135A	South Blanco Pictured Cliffs/Blanco Mesaverde	29-27N-06W
135E	Otero Chacra/Basin Dakota	29-27N-06W
136	Basin Dakota	23-27N-07W
136E	Blanco Mesaverde/Basin Dakota	23-27N-07W
137	Blanco Mesaverde/Basin Dakota	24-27N-07W
137E	Blanco Mesaverde/Basin Dakota	24-27N-07W
138	Basin Dakota	25-27N-07W
139	Basin Dakota	25-27N-07W
149	Basin Dakota	30-27N-06W
150	Blanco Mesaverde/Basin Dakota	06-26N-06W
151	Basin Dakota	14-27N-07W

Rincon Unit Well No.	Producing Pool(s)	S-T-R
180	Basin Dakota	21-27N-06W
180M	Blanco Mesaverde/Basin Dakota	21-27N-06W
186	Basin Dakota	33-27N-07W
187	Basin Dakota	35-27N-07W
190	South Blanco Pictured Cliffs	17-27N-06W
193	Basin Dakota	35-27N-07W
194	South Blanco Pictured Cliffs	16-27N-06W
195	South Blanco Pictured Cliffs	19-27N-06W
197	South Blanco Pictured Cliffs	28-27N-06W
199	South Blanco Pictured Cliffs	14-27N-07W
201	Basin Dakota	02-26N-07W
202	Basin Dakota	27-27N-07W
223	Otero Chacra/Blanco Mesaverde	34-27N-07W
223A	Otero Chacra/Blanco Mesaverde	34-27N-07W
229	Basin Dakota	34-27N-07W
233	Otero Chacra/Blanco Mesaverde	02-26N-07W
234	Otero Chacra/Blanco Mesaverde	02-26N-07W
240	Basin Fruitland Coal	21-27N-06W
243	Basin Fruitland Coal	27-27N-06W
251	Basin Fruitland Coal	28-27N-06W
252	Basin Fruitland Coal	18-27N-06W
253	Basin Fruitland Coal	17-27N-06W
254	Basin Fruitland Coal	20-27N-06W
255	Basin Fruitland Coal	20-27N-06W
256	Basin Fruitland Coal	16-27N-06W
257	Basin Fruitland Coal	16-27N-06W
258	Basin Fruitland Coal	17-27N-06W
259	Basin Fruitland Coal	29-27N-06W

Exhibit "B"

Gas and Liquid Allocation Calculations

LAF: Liquid Allocation Factor

GAF: Gas Allocation Factor

N: Total Number of Wells in the Gathering System

n: nth Individual Well in the Gathering System

$$LAF(n) = \frac{\text{Well Site Tank Liquid Volume, nth Well (bbl/mo)}}{\sum_{i=1}^N \text{Well Site Tank Liquid Volume, nth Well (bbl/mo)}}$$

$$GAF(n) = \frac{\text{Allocation Meter Volume, nth Well (Mcf/mo)}}{\sum_{i=1}^N \text{Allocation Meter Volume, nth Well (Mcf/mo)}}$$

N = 178 Wells for CDP No. 4

Liquids allocated from the CDP No. 4 tank back to the nth well:

$$Q_n(\text{liquids}) = (LAF_n)(\text{Total Liquids, CDP No. tank (bbl/mo)})$$

Gas allocated from central custody transfer meter at CDP No. 4 back to the nth well:

$$Q_n(\text{gas}) = (GAF_n)(\text{Total Gas, CDP No. 4 Transfer Meter (Mcf/mo)})$$