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 (Operator) PO Box 4289, Farmington, NM 87499 (Address)

HOWELL C (Lease) 2A (Well No.) J, Sec. 03 T29N, R08W (Unit Ltr. - Sec - Twp - Rge) SAN JUAN (County)

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7120 API NO. 30-039-21635 Federal X , State _____, (and/or) Fee _____

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Blanco PIC.CLIFFS-72359		Blanco MESAVERDE-72319
2. Top and Bottom of Pay Section (Perforations)	3023'-3082'		4642'-5468'
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 Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured	(Current) a. 325 psia @ 3053'	a.	a. 180.5 psia @ 5055'
	(Original) b. 692 psia @ 3053'	b.	b. 727 psia @ 5055'
6. Oil Gravity (°API) or Gas BTU Content	1160 BTU		1252 BTU
7. Producing orShut-In?	PRODUCING		PRODUCING
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: Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 12/14/99 Rates: 58MCF/D, 1-BO/MO, 0-BWD	Date: Rates:	Date: 12/14/99 Rates: 53MCF/D, 0-BOP, 0-BWD
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

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? _X_ Yes ___No
If not, have all working, overriding, and royalty interests been notified by certified mail? ___Yes ___No

11. 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)

12. Are all produced fluids from all commingled zones compatible with each other? _X_ Yes ___ 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 X 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 explanation.)
* For zones with no production history, estimated production rates and supporting da
* Data to support allocation method or formula.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* Any additional statements, data, or documentsequired to support commingling.

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

SIGNATURE Mike Haddenham TITLE Operations Engineer DATE 12-29-99

TYPE OR PRINT NAME MIKE HADDENHAM TELEPHONE NO. (505) 326-9577

Form C-102
Supersedes C-128
Effective 1-1-65

LOCATION AND ACREAGE DEDICATION PLAT

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

Operator	Lease	Well No.
El Paso Natural Gas Company	Howell C (SF-078596)	2A

Unit Letter	Section	Township	Range	County
J	3	29N	8W	San Juan

Actual Footage Location of Well:
1535 feet from the South line and 1550 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6276	Pic.Cliffs Mesa Verde	Blanco Pic.Cliffs Blanco Mesa Verde	160.08 323.20 Acres

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 working interest and royalty).

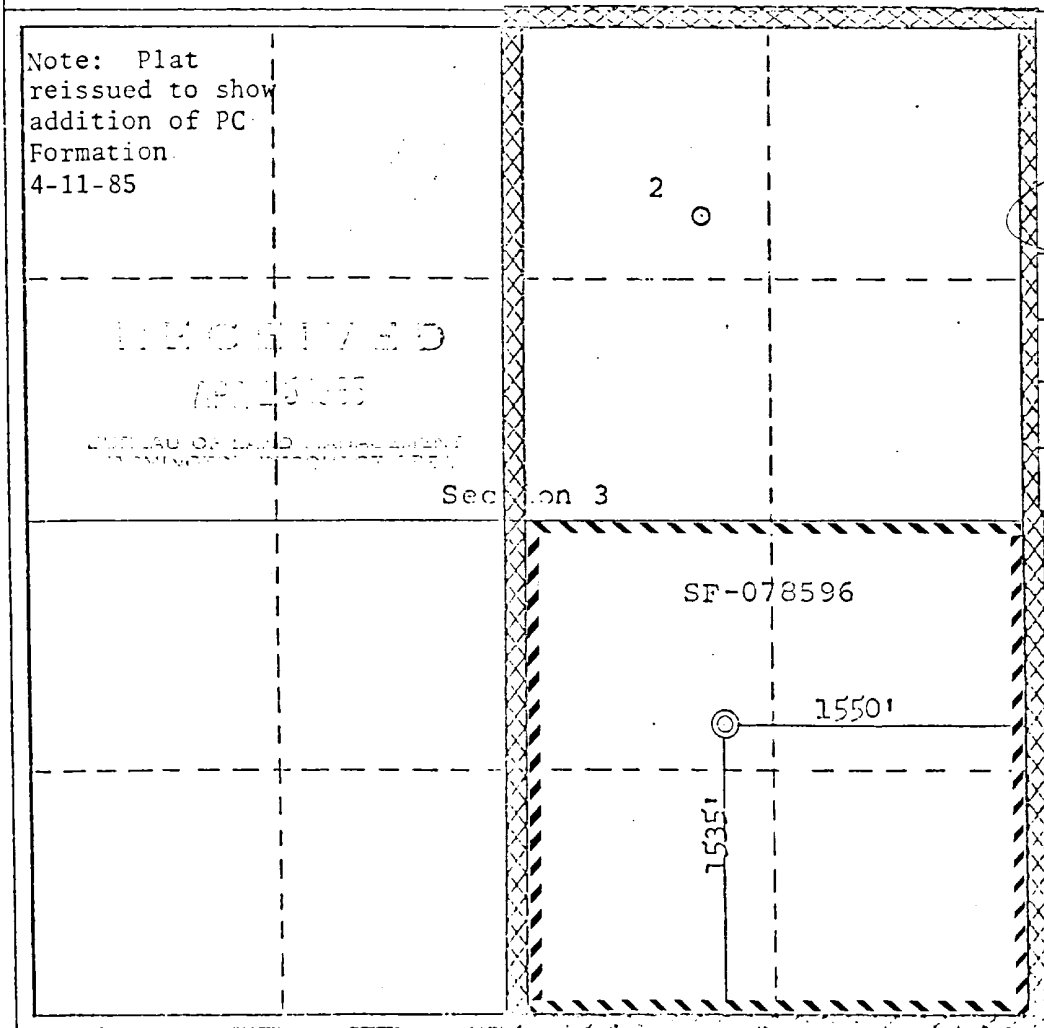
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of 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 Commission.

Note: Plat reissued to show addition of PC Formation 4-11-85



RECEIVED
APR 15 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON, NEW MEXICO

CERTIFICATION

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

Name: Drilling Clerk

Position: El Paso Natural Gas Co

Company: April 12, 1985

Date

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 knowledge and belief.

Date Surveyed: December 17, 1971

Registered Professional Engineer and/or Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500

Howell C #2A
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde

MV-Current

GAS GRAVITY	0.726
COND. OR MISC. (C/M)	M
%N2	0.26
%CO2	1
%H2S	0
DIAMETER (IN)	4.052
DEPTH (FT)	5055
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	159
BOTTOMHOLE PRESSURE (PSIA)	180.5

MV-Original

GAS GRAVITY	0.726
COND. OR MISC. (C/M)	M
%N2	0.26
%CO2	1
%H2S	0
DIAMETER (IN)	4.052
DEPTH (FT)	5055
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	632
BOTTOMHOLE PRESSURE (PSIA)	726.8

Pictured Cliffs

PC-Current

GAS GRAVITY	0.639
COND. OR MISC. (C/M)	M
%N2	0.63
%CO2	0.75
%H2S	0
DIAMETER (IN)	6.456
DEPTH (FT)	3053
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	120
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	303
BOTTOMHOLE PRESSURE (PSIA)	324.9

PC-Original

GAS GRAVITY	0.639
COND. OR MISC. (C/M)	M
%N2	0.63
%CO2	0.75
%H2S	0
DIAMETER (IN)	6.456
DEPTH (FT)	3053
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	120
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	643
BOTTOMHOLE PRESSURE (PSIA)	692.2

HOWELL C 2A (PC)

AI Number: 4795402 **Meter Number:** 95348

Sample Date: 19960924

Hydrocarbon Fractions	Impurities	
Mol % C1: 85.75	Mol % H2: 0	Test Pressure: 14.73
Mol % C2: 7.99	Mol % He: 0	Test Temperature: 60
Mol % C3: 2.9	Mol % N2: 0.63	Wet BTU Factor (BTU/CF at 14.73): 1139.832
Mol % iC4: 0.51	Mol % O2: 0	Dry BTU Factor (BTU/CF at 14.73): 1160
Mol % nC4: 0.69	Mol % H2S: 0	Measured Specific Gravity: 0
Mol % iC5: 0.25	Mol % CO2: 0.75	Calculated Specific Gravity: 0.667
Mol % nC5: 0.17		
Mol % C6: 0		
Mol % C6+: 0.36		
Mol % C7: 0		

Sample Date: 19920723

Hydrocarbon Fractions	Impurities	
Mol % C1: 90.35	Mol % H2: 0	Test Pressure: 14.73
Mol % C2: 4.65	Mol % He: 0	Test Temperature: 60
Mol % C3: 2.4	Mol % N2: 0.16	Wet BTU Factor (BTU/CF at 14.73): 1103.475
Mol % iC4: 0.45	Mol % O2: 0	Dry BTU Factor (BTU/CF at 14.73): 1123
Mol % nC4: 0.58	Mol % H2S: 0	Measured Specific Gravity: 0
Mol % iC5: 0.19	Mol % CO2: 0.79	Calculated Specific Gravity: 0.639
Mol % nC5: 0.13		
Mol % C6: 0		
Mol % C6+: 0.3		
Mol % C7: 0		

HOWELL C 2A (MV)

AI Number: 4795401 **Meter Number:** 89172

Sample Date: 19980113

Hydrocarbon Fractions	Impurities	
Mol % C1: 81.12	Mol % H2: 0	Test Pressure: 14.73
Mol % C2: 9.31	Mol % He: 0	Test Temperature: 60
Mol % C3: 4.44	Mol % N2: 0.26	Wet BTU Factor (BTU/CF at 14.73): 1230.232
Mol % iC4: 0.81	Mol % O2: 0	Dry BTU Factor (BTU/CF at 14.73): 1252
Mol % nC4: 1.31	Mol % H2S: 0	Measured Specific Gravity: 0
Mol % iC5: 0.5	Mol % CO2: 1	Calculated Specific Gravity: 0.726
Mol % nC5: 0.39		
Mol % C6: 0		
Mol % C6+: 0.86		
Mol % C7: 0		

Sample Date: 19960319

Hydrocarbon Fractions	Impurities	
Mol % C1: 81.85	Mol % H2: 0	Test Pressure: 14.73
Mol % C2: 9.4	Mol % He: 0	Test Temperature: 60
Mol % C3: 4.33	Mol % N2: 0.29	Wet BTU Factor (BTU/CF at 14.73): 1201.737
Mol % iC4: 0.75	Mol % O2: 0	Dry BTU Factor (BTU/CF at 14.73): 1223
Mol % nC4: 1.18	Mol % H2S: 0	Measured Specific Gravity: 0
Mol % iC5: 0.4	Mol % CO2: 1.02	Calculated Specific Gravity: 0.708
Mol % nC5: 0.29		
Mol % C6: 0		
Mol % C6+: 0.49		
Mol % C7: 0		

API # 30-045-21635

STATE OF NEW MEXICO
ENERGY and MINERALS
DEPARTMENT

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

OIL CONSERVATION DIVISION

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator BURLINGTON RESOURCES OIL & GAS CO. Lease HOWELL C Well No. 2A

Location of Well: Unit J Sect 03 Twp. 029N Rge. 008W County SAN JUAN

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	PICTURED CLIFFS	Gas	Flow	Tubing
Lower Completion	MESAVERDE	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Completion	06/11/1999	144 Hours	303	
Lower Completion	06/11/1999	96 Hours	159	

FLOW TEST NO. 1

Commenced at (hour,date)* 06/15/1999 Zone producing (Upper or Lower) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower Completion	PROD. ZONE TEMP	REMARKS
6/16/199	120 Hours	181	167		
6/17/199	144 Hours	141	172		

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA

	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Completion				
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

(Continue on reverse side)

HOWELL C #2A

Sec. 03, T29N R08W

San Juan County, New Mexico

Production Allocation Based On Cumulative Production Through 11/1/99

	Cumulative Production		% Allocation	
	MCF	Bbl Oil	% Gas	% Oil
Pictured Cliffs	43	0	9.37%	0.00%
Mesaverde	416	0	90.63%	0.00%
Total	459	0	100.00%	0.00%

Gas Allocation:

Pictured Cliffs (Total Pictured Cliffs Production) 43 MCF / (Total Combined Production) 459 MCF = **9.37%**

Mesaverde (Total Mesaverde Production) 416 MCF / (Total Combined Production) 459 MCF = **90.63%**

Oil Allocation:

Pictured Cliffs (Total Pictured Cliffs Production) 0 Bbl Oil / (Total Combined Production) 0 Bbl Oil = **0.00%**

Mesaverde (Total Mesaverde Production) 0 Bbl Oil / (Total Combined Production) 0 Bbl Oil = **0.00%**

MV

416 MCF/D avg

12/16/1999

Pressure Base 14.73

BURLINGTON RESOURCES OIL & GAS COMPANY
DAILY HISTORY REPORT - ESTIMATED PRODUCTION VOLUMES BY WELL
FOR MONTH ENDING: 1999-10-31

4795401 HOWELL C 2A

Date	Gas Sales	Net Gas	Est. Oil	Net Oil	Est. Water
10/01/99	400.000	344.000	0.622	0.535	0.000
10/02/99	399.000	343.140	0.622	0.535	0.000
10/03/99	398.000	342.280	0.622	0.535	0.000
10/04/99	401.000	344.860	0.622	0.535	0.000
10/05/99	402.000	345.720	0.622	0.535	0.000
10/06/99	399.000	343.140	0.622	0.535	0.000
10/07/99	399.000	343.140	0.622	0.535	0.000
10/08/99	399.000	343.140	0.622	0.535	0.000
10/09/99	398.000	342.280	0.622	0.535	0.000
10/10/99	400.000	344.000	0.622	0.535	0.000
10/11/99	397.000	341.420	0.622	0.535	0.000
10/12/99	410.000	352.600	0.622	0.535	0.000
10/13/99	408.000	350.880	0.622	0.535	0.000
10/14/99	406.000	349.160	0.622	0.535	0.000
10/15/99	406.000	349.160	0.622	0.535	0.000
10/16/99	406.000	349.160	0.622	0.535	0.000
10/17/99	406.000	349.160	0.622	0.535	0.000
10/18/99	406.000	349.160	0.622	0.535	0.000
10/19/99	406.000	349.160	0.622	0.535	0.000
10/20/99	406.000	349.160	0.622	0.535	0.000
10/21/99	406.000	349.160	0.622	0.535	0.000
10/22/99	406.000	349.160	0.622	0.535	0.000
10/23/99	406.000	349.160	0.622	0.535	0.000
10/24/99	401.000	344.860	0.622	0.535	0.000
10/25/99	393.000	337.980	0.622	0.535	0.000
10/26/99	400.000	344.000	0.622	0.535	0.000
10/27/99	400.000	344.000	0.477	0.410	0.000
10/28/99	400.000	344.000	0.477	0.410	0.000
10/29/99	400.000	344.000	0.477	0.410	0.000
10/30/99	400.000	344.000	0.477	0.410	0.000

12/16/1999

BURLINGTON RESOURCES OIL & GAS COMPANY
DAILY HISTORY REPORT - ESTIMATED PRODUCTION VOLUMES BY WELL
FOR MONTH ENDING: 1999-10-31

Pressure Base 14.73

4795401 HOWELL C 2A

	Date	Gas Sales	Net Gas	Est. Oil	Net Oil	Est. Water
	10/31/99	401.000	344.860	0.477	0.410	0.000
Asset Identifier 4795401		12465.000	10719.900	18.557	15.960	0.000

12/16/1999

Pressure Base 14.73

BURLINGTON RESOURCES OIL & GAS COMPANY
DAILY HISTORY REPORT - ESTIMATED PRODUCTION VOLUMES BY WELL
FOR MONTH ENDING: 1999-10-31

PC
43 MCF/D
avg

4795402 HOWELL C 2A

Date	Gas Sales	Net Gas	Est. Oil	Net Oil	Est. Water
10/01/99	43.000	36.980	0.000	0.000	0.040
10/02/99	43.000	36.980	0.000	0.000	0.040
10/03/99	43.000	36.980	0.000	0.000	0.040
10/04/99	43.000	36.980	0.000	0.000	0.040
10/05/99	43.000	36.980	0.000	0.000	0.040
10/06/99	43.000	36.980	0.000	0.000	0.040
10/07/99	42.000	36.120	0.000	0.000	0.039
10/08/99	42.000	36.120	0.000	0.000	0.039
10/09/99	41.000	35.260	0.000	0.000	0.039
10/10/99	42.000	36.120	0.000	0.000	0.039
10/11/99	42.000	36.120	0.000	0.000	0.039
10/12/99	42.000	36.120	0.000	0.000	0.039
10/13/99	42.000	36.120	0.000	0.000	0.039
10/14/99	42.000	36.120	0.000	0.000	0.039
10/15/99	42.000	36.120	0.000	0.000	0.039
10/16/99	42.000	36.120	0.000	0.000	0.039
10/17/99	42.000	36.120	0.000	0.000	0.039
10/18/99	42.000	36.120	0.000	0.000	0.039
10/19/99	42.000	36.120	0.000	0.000	0.039
10/20/99	42.000	36.120	0.000	0.000	0.039
10/21/99	42.000	36.120	0.000	0.000	0.039
10/22/99	42.000	36.120	0.000	0.000	0.039
10/23/99	42.000	36.120	0.000	0.000	0.039
10/24/99	42.000	36.120	0.000	0.000	0.039
10/25/99	41.000	35.260	0.000	0.000	0.039
10/26/99	41.000	35.260	0.000	0.000	0.039
10/27/99	43.000	36.980	0.000	0.000	0.040
10/28/99	43.000	36.980	0.000	0.000	0.040
10/29/99	43.000	36.980	0.000	0.000	0.040
10/30/99	43.000	36.980	0.000	0.000	0.040

12/16/1999

BURLINGTON RESOURCES OIL & GAS COMPANY
DAILY HISTORY REPORT - ESTIMATED PRODUCTION VOLUMES BY WELL
FOR MONTH ENDING: 1999-10-31

43 MCF/D
avg

Pressure Base 14.73

4795402 HOWELL C 2A

Date	Gas Sales	Net Gas	Est. Oil	Net Oil	Est. Water
10/31/99	42.000	36.120	0.000	0.000	0.039
Asset Identifier 4795402	1309.000	1125.740	0.000	0.000	1.219