

DATE IN 12/15/99	SUSPENSE 1/4/00	ENGINEER DC	LOGGED KW	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -

2564

**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

**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]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling
- NSL NSP DD SD

Check One Only for [B] and [C]

- [B] Commingling - Storage - Measurement
- X DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
- WFX PMX SWD IPI EOR PPR

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

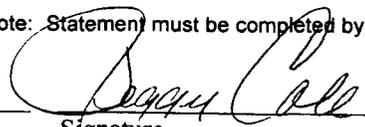
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] X Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[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 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.

Peggy Cole



Regulatory/Compliance Administrator

Print or Type Name

Signature

Title

Date

**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

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

APPROVAL PROCESS :

Administrative  Hearing

EXISTING WELLBORE

YES  NO

**APPLICATION FOR DOWNHOLE COMMINGLING**

BURLINGTON RESOURCES OIL & GAS COMPANY  
Operator

PO Box 4289, Farmington, NM 87499  
Address

**CAT DRAW**

**1E**

**C, Sec. 04, T30N, R05W**

**Rio Arriba**

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 18493 API NO. 30-039-2305500 Federal  , 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 MESAVERDE-72319		BASIN DAKOTA-71599
2. Top and Bottom of Pay Section (Perforations)	5435'-5756'		7880'-7974'
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. 1222 psia @ 5596'	a.	a. 1523 psia @ 7927'
	(Original) b. 1393 psia @ 5596'	b.	b. 3192 psia @ 7927'
6. Oil Gravity (°API) or Gas BTU Content	988 BTU		969 BTU
7. Producing or Shut-In?	SHUT-IN		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  * If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 11/97 Rates: 124 MCF/D 0 BOD 0 BWD	Date: Rates:	Date: 12/96 Rates: 89 MCF/D 0 BOD 0 BWD
	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula % for each zone (total of %'s to equal 100%)	Oil: Gas:	Oil: Gas:	Oil: Gas:
	Will supply after commingling	Will supply after commingling	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?  Yes  No  
If not, have all working, overriding, and royalty interests been notified by certified mail?  Yes  No

11. Will cross-flow occur?  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.  Yes  No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other?  Yes  No

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

14. If this well is on, or communitized 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  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 data.
- \* Data to support allocation method or formula.
- \* Any additional statements, data, or documents required 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 12-10-99

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

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION

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

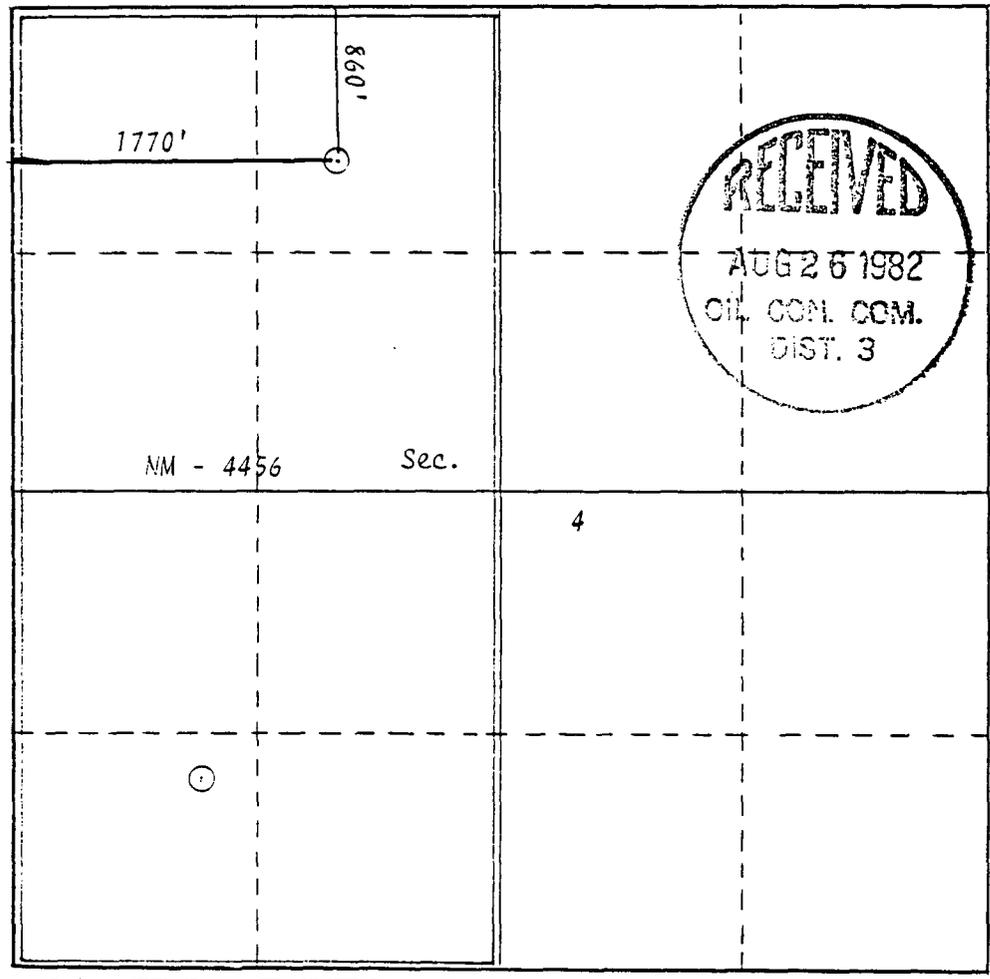
All distances must be from the outer boundaries of the Section.

Operator <b>SOUTHLAND ROYALTY COMPANY</b>		Lease <b>Cat Draw</b>		Well No. <b>1E</b>
Unit Letter <b>C</b>	Section <b>4</b>	Township <b>30N</b>	Range <b>5W</b>	County <b>Rio Arriba</b>
Actual Footage Location of Well: <b>860</b> feet from the <b>North</b> line and <b>1770</b> feet from the <b>West</b> line				FARMINGTON DISTRICT
Ground Level Elev. <b>6453'</b>	Producing Formation <b>Dakota/Mesaverde</b>	Pool <b>Basin/Blanco</b>	Dedicated Acreage: <b>390.319.63</b> 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.



CERTIFICATION

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

*R. E. Fielder*

Name  
**R. E. Fielder**

Position  
**District Engineer**

Company  
**Southland Royalty Company**

Date  
**August 3, 1982**

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 \_\_\_\_\_

Registered Professional Engineer and/or Land Surveyor \_\_\_\_\_

Certificate No. \_\_\_\_\_

Entity Yearly Production Report - Super Base

=====

Entity	: CAT DRAW (018493)	Product:	GAS
Field	: BLANCO (5900)	Start	: 198312
Reservoir:	MESAVERDE (625)	Stop	: 199707
Operator	: BURLINGTON RESOURCES OIL & GAS COMPA (134050)	Status	: INACTIVE
Location	: S4 T30N R5W C RIO ARBA	Dist	: AZTEC
Basin	: SAN JUAN (580)	Well#	: 1E
Zone	: MESAVERDE (604MVRD)	Lat	: 36.84647
API	: 30039230550000	Lng	: 107.36522

Yearly Production

=====

Year	Year To Date			Opening Cumulatives		
	Gas	Liquid	Water	Gas	Liquid	Water
83	11709	0	0	0	0	0
84	93182	0	4	11709	0	0
85	26531	0	25	104891	0	4
86	51936	0	49	131422	0	29
87	99614	0	11	183358	0	78
88	61021	0	7	282972	0	89
89	63703	0	0	343993	0	96
90	28374	0	0	407696	0	96
91	23841	0	0	436070	0	96
92	16596	0	0	459911	0	96
93	34804	0	0	476507	0	96
94	31865	0	0	511311	0	96
95	12970	0	0	543176	0	96
96	23820	0	0	556146	0	96
97	6262	0	0	579966	0	96
98	0	0	0	586228	0	96
99	0	0	0	586228	0	96

Dec-01-1999  
11:21  
2 of 3

Copyright 1999 Petroleum Information\Dwights  
Petroleum Information\Dwights Production Data on CD-ROM  
Northwest New Mexico - April, 1999  
Entity Yearly Production Report - Super Base  
=====

7503

Entity	: CAT DRAW (018493)	Product:	GAS
Field	: BASIN (4100)	Start	: 198307
Reservoir:	DAKOTA (604)	Stop	: 199602
Operator	: BURLINGTON RESOURCES OIL & GAS COMPA (134050)	Status	: INACTIVE
Location	: S4 T30N R5W C RIO ARBA	Dist	: AZTEC
Basin	: SAN JUAN (580)	Well#	: 1E
Zone	: DAKOTA (602DKOT)	Lat	: 36.84647
API	: 30039230550000	Lng	: 107.36522

Yearly Production  
=====

Year	Year To Date			Opening Cumulatives		
	Gas	Liquid	Water	Gas	Liquid	Water
83	21638	0	9	0	0	0
84	26874	0	57	21638	0	9
85	17872	0	79	48512	0	66
86	11378	0	141	66384	0	145
87	0	0	1	77762	0	286
88				77762		287
89	14369	0	0	77762	0	287
90	4775	0	0	92131	0	287
91	0	0	0	96906	0	287
92	2651	0	0	96906	0	287
93	0	0	0	99557	0	287
94				99557		287
95	3896	0	0	99557	0	287
96	5543	0	0	103453	0	287
97	0	0	0	108996	0	287
98	0	0	0	108996	0	287



# Cat Draw #1E

## Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method

Version 1.0 3/13/94

<b>Mesaverde</b>	<b>Dakota</b>																																																
<u>MV-Current</u>	<u>DK-Current</u>																																																
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**CAT DRAW #1E**  
**Sec. 04, T30N R05W**  
**Rio Arriba County, New Mexico**

**Production Allocation Based On Cumulative Production Through 1997**

	Cumulative Production		% Allocation	
	MCF	Bbl Oil	% Gas	% Oil
Dakota	108,996	0	15.8%	0.0%
Mesaverde	579,966	0	84.2%	0.0%
Total	688,962	0	100.0%	0.0%

**Gas Allocation:**

**Dakota** (Total Dakota Production) 108,996 MCF  
-----  
(Total Combined Production) 688,962 MCF = **15.82%**

**Mesaverde** (Total Mesaverde Production) 579,966 MCF  
-----  
(Total Combined Production) 688,962 MCF = **84.18%**

**Oil Allocation:**

**Dakota** (Total Dakota 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%**

STATE OF NEW MEXICO  
ENERGY and MINERALS  
DEPARTMENT

**OIL CONSERVATION DIVISION**

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

**NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST**

Operator BURLINGTON RESOURCES OIL & GAS CO. Lease CAT DRAW Well No. 1E

Location of Well: Unit C Sect 04 Twp. 030N Rge. 005W County RIO ARRIBA

	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	MESAVERDE	Gas	Flow	Tubing
Lower Completion	DAKOTA	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	05/03/1999	120 Hours	1040	
Lower Completion	05/03/1999	72 Hours	1200	

FLOW TEST NO. 1

Commenced at (hour,date)*		05/06/1999		Zone producing (Upper or Lower)		LOWER
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP	REMARKS	
		Upper Completion	Lower Completion			
5/07/199	96 Hours	1040	0		DK to 0 in 5 min.	
5/08/199	120 Hours	1040	0		DK logged off.	

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

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

(Continue on reverse side)