

DATE IN 12/15/99	SUSPENSE 1/4/00	ENGINEER DC	LOGGED KW	TYPE DHC
------------------	-----------------	-------------	-----------	----------

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

Print or Type Name

Signature

Regulatory/Compliance Administrator

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 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY
OperatorPO 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	(Current) a. 1222 psia @ 5596'	a.	a. 1523 psia @ 7927'
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured	(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	Date: 11/97 Rates: 124 MCF/D 0 BOD 0 BWD	Date: Rates:	Date: 12/96 Rates: 89 MCF/D 0 BOD 0 BWD
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 Rates:	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: Will supply after commingling	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?
If not, have all working, overriding, and royalty interests been notified by certified mail?☒ Yes ☐ No
☐ Yes ☐ No11. 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 ☐ No13. 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 12-10-99TYPE OR PRINT NAME MIKE HADDENHAMTELEPHONE NO. (505) 326-9577

**N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION**

Form C-102
Supersedes C-128
Effective 1-4-65

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

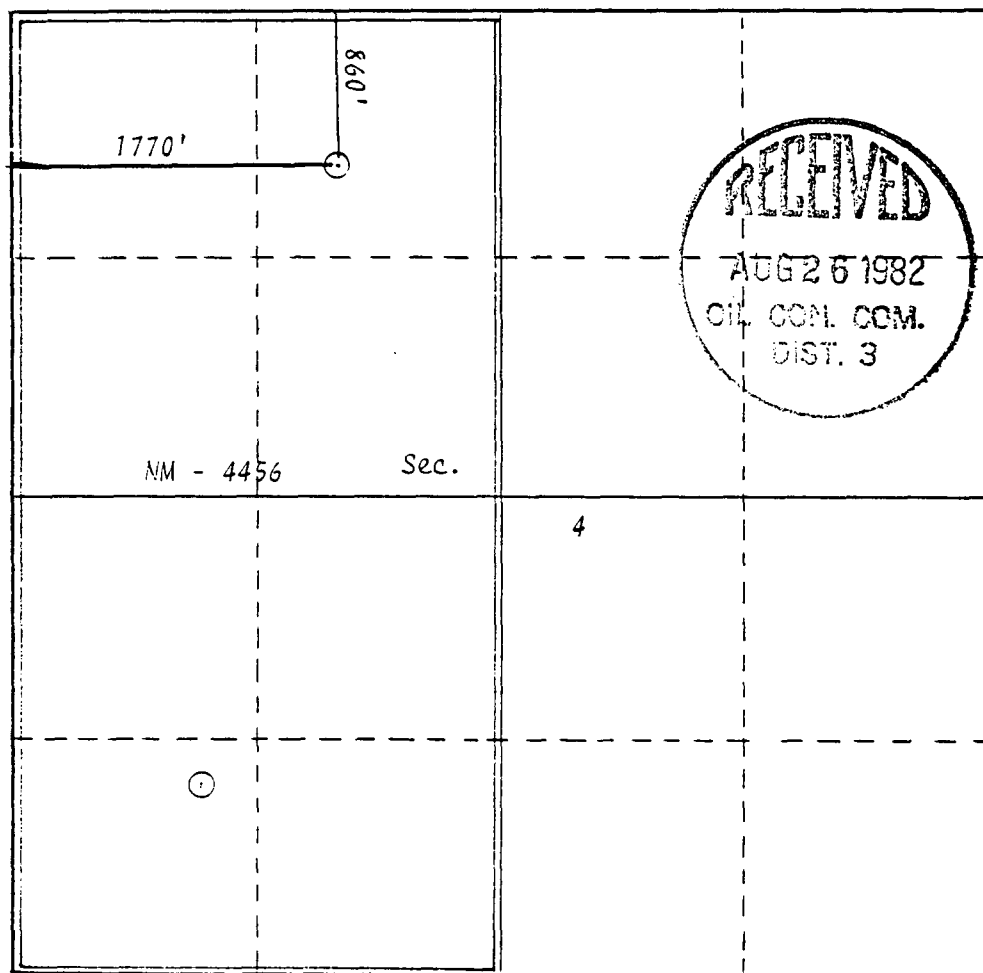
Operator SOUTHLAND ROYALTY COMPANY			Lease Cat Draw		Well No. 1E
Unit Letter C	Section 4	Township 30N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 860 feet from the North line and 1770 feet from the West line					FARMINGTON DISTRICT
Ground Level Elev. 6453'	Producing Formation Dakota/Mesaverde	Pool Basin/Blanco	Dedicated Acreage: 390 319.63 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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. _____

Dec-01-1999

Copyright 1999 Petroleum Information\Dwights

7504

11:36

Petroleum Information\Dwights Production Data on CD-ROM

3 of 3

Northwest New Mexico - April, 1999

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

Copyright 1999 Petroleum Information\Dwights

7503

11:21

Petroleum Information\Dwights Production Data on CD-ROM

2 of 3

Northwest New Mexico - April, 1999

Entity Yearly Production Report - Super Base

=====

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

Cumulative Monthly Well Report

December 1997 -- December 1999

Select By : Completions
Sort By :

Page No : 1
Report Number : R_290
Last Update :
Print Date : 12/01/1999, 11:07:40

Completion	Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
CAT DRAW IE	10/31/1998	0.00	0.00	0.00	0.00	0.00	0.00
	11/30/1998	0.00	0.00	0.00	0.00	0.00	0.00
	12/31/1998	0.00	0.00	0.00	0.00	0.00	0.00
	01/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	02/28/1999	0.00	0.00	0.00	0.00	0.00	0.00
	03/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	04/30/1999	0.00	0.00	0.00	0.00	0.00	0.00
	05/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	06/30/1999	0.00	0.00	0.00	0.00	0.00	0.00
	07/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	08/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	09/30/1999	0.00	0.00	0.00	0.00	0.00	0.00
	10/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	11/30/1999	0.00	0.00	0.00	0.00	0.00	0.00
	12/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	10/31/1998	0.00	0.00	0.00	0.00	0.00	0.00
	11/30/1998	0.00	0.00	0.00	0.00	0.00	0.00
	12/31/1998	0.00	0.00	0.00	0.00	0.00	0.00
	01/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	02/28/1999	0.00	0.00	0.00	0.00	0.00	0.00
	03/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	04/30/1999	0.00	0.00	0.00	0.00	0.00	0.00
	05/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	06/30/1999	0.00	0.00	0.00	0.00	0.00	0.00
	07/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	08/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	09/30/1999	0.00	0.00	0.00	0.00	0.00	0.00
	10/31/1999	0.00	0.00	0.00	0.00	0.00	0.00
	11/30/1999	0.00	0.00	0.00	0.00	0.00	0.00
	12/31/1999	0.00	0.00	0.00	0.00	0.00	0.00

Cat Draw #1E

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.702	GAS GRAVITY	0.7355
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.13	%N2	0.40
%CO2	0.98	%CO2	0.61
%H2S	0	%H2S	0
DIAMETER (IN)	4.95	DIAMETER (IN)	4.95
DEPTH (FT)	5596	DEPTH (FT)	7927
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140	BOTTOMHOLE TEMPERATURE (DEG F)	184
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1040	SURFACE PRESSURE (PSIA)	1200
BOTTOMHOLE PRESSURE (PSIA)	1222.0	BOTTOMHOLE PRESSURE (PSIA)	1522.9
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.702	GAS GRAVITY	0.7355
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.13	%N2	0.40
%CO2	0.98	%CO2	0.61
%H2S	0	%H2S	0
DIAMETER (IN)	4.95	DIAMETER (IN)	4.95
DEPTH (FT)	5596	DEPTH (FT)	7927
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140	BOTTOMHOLE TEMPERATURE (DEG F)	184
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1181	SURFACE PRESSURE (PSIA)	2489
BOTTOMHOLE PRESSURE (PSIA)	1392.5	BOTTOMHOLE PRESSURE (PSIA)	3191.6

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:

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

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

Oil Allocation:

	(Total Dakota Production)	0 Bbl Oil	
Dakota	-----		= 0.00%
	(Total Combined Production)	0 Bbl Oil	

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

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. 1ELocation
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	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	05/03/1999	72 Hours	1200	

FLOW TEST NO. 1

Commenced at (hour,date)*		05/06/1999		Zone producing (Upper or Lower)	
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE	REMARKS
		Upper Completion	Lower Completion	TEMP	
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)