



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor

Jennifer A. Salisbury

Cabinet Secretary

Lori Wrotenbery  
Director  
Oil Conservation Division

ADMINISTRATIVE ORDER DHC-2793

Burlington Resources Oil & Gas Company  
P.O. Box 4289  
Farmington, New Mexico 87499

Attention: Ms. Peggy Cole



Lively No. 17

API No. 30-045-21325

Unit P, Section 1, Township 26 North, Range 8 West, NMPM,  
San Juan County, New Mexico.

Blanco-Mesaverde (Prorated Gas - 72319),

Basin-Dakota (Prorated Gas - 71599) and

Otero-Chacra (Gas - 82329) Pools

Dear Ms. Cole:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

The applicant shall consult with the supervisor of the Aztec District Office of the Division upon completion and testing of the well in order to determine a fixed allocation of production from each of the commingled zones. Upon approval by the Division's Aztec District Office, the applicant shall submit the allocation formula to the Santa Fe Office of the Division.

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

Pursuant to Rule 303.C.(2), the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 8th day of August, 2000.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

A handwritten signature in cursive script, appearing to read "Lori Wrotenbery, D.", is written over the printed name.

LORI WROTENBERY  
Director

S E A L

LW/DRC

cc: Oil Conservation Division - Aztec /  
Bureau of Land Management-Farmington

District I  
1625 N. French Drive, Hobbs, NM 88240

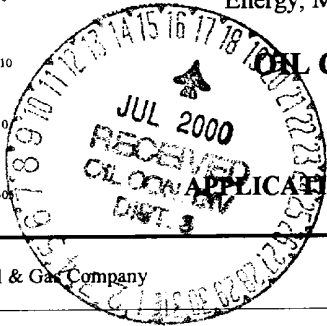
District II  
811 South First Street, Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised May 15, 2000



OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE  
☒ Single Well  
☐ Establish Pre-Approved Pools  
EXISTING WELLBORE  
☒ Yes ☐ No

Burlington Resources Oil & Gas Company PO Box 4289, Farmington, NM 87499

Operator Address San Juan  
LIVELY 17 P 01-26N-08W

Lease Well No. Unit Letter-Section-Township-Range County

OGRID No.14538 Property Code\_18182 API No. 30-045-21325 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Otero Chacra	Blanco Mesaverde	Basin Dakota
Pool Code	82329	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Will be supplied upon completion	Will be supplied upon completion	6437'-6633'
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Current: 571 psi (see attached) Original: 1210 psi (see attached)	Current: 427 psi (see attached) Original: 1235 psi (see attached)	Current: 1125 psi (see attached) Original: 1973 psi (see attached)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1182	1304	1181
Producing, Shut-In or New Zone	New Zone	New Zone	Producing
Date 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: April, 2000 Rates: 810 per month
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas % % will be supplied upon completion	Oil Gas % % will be supplied upon completion	Oil Gas % % will be supplied upon completion

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐

Will commingling decrease the value of production? Yes ☐ No ☒  
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No ☐

NMOCD Reference Case No. applicable to this well: \_\_\_\_\_

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.  
Notification list of working, royalty and overriding royalty interests for uncommon interest cases.  
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools  
List of all operators within the proposed Pre-Approved Pools  
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.  
Bottomhole pressure data.

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

SIGNATURE Wayne Fletcher TITLE Sr. Prod. Eng. DATE 7/14/00  
nco  
TYPE OR PRINT NAME Wayne Fletcher TELEPHONE NO. (505) 326-9700

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-21325		2 Pool Code 71599 82329/72319/		3 Pool Name Basin Dakota Otero Chacra/Blanco Mesaverde/	
4 Property Code 18182		5 Property Name Lively			6 Well Number 17
7 OGRID No. 14538		8 Operator Name Burlington Resources Oil & Gas Company			9 Elevation 6096' GR

10 Surface Location

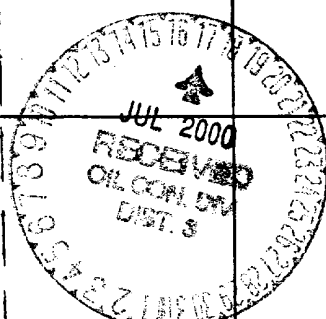
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	1	26N	8W		990'	South	990'	East	SJ

11 Bottom Hole Location If Different From Surface

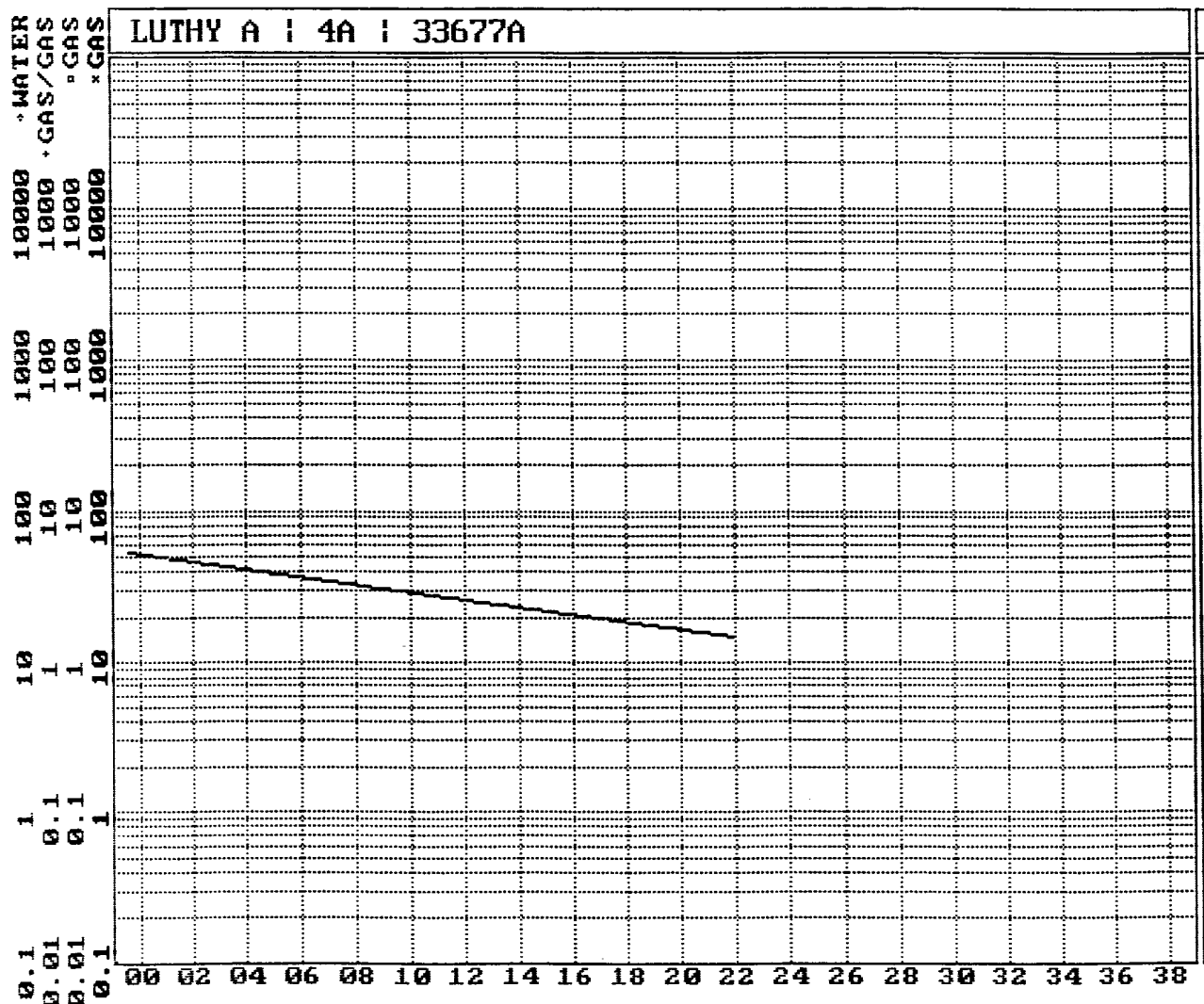
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres Cha - 160 MV/DK-E/120.50	13 Joint or Infill	14 Consolidation Code	15 Order No.
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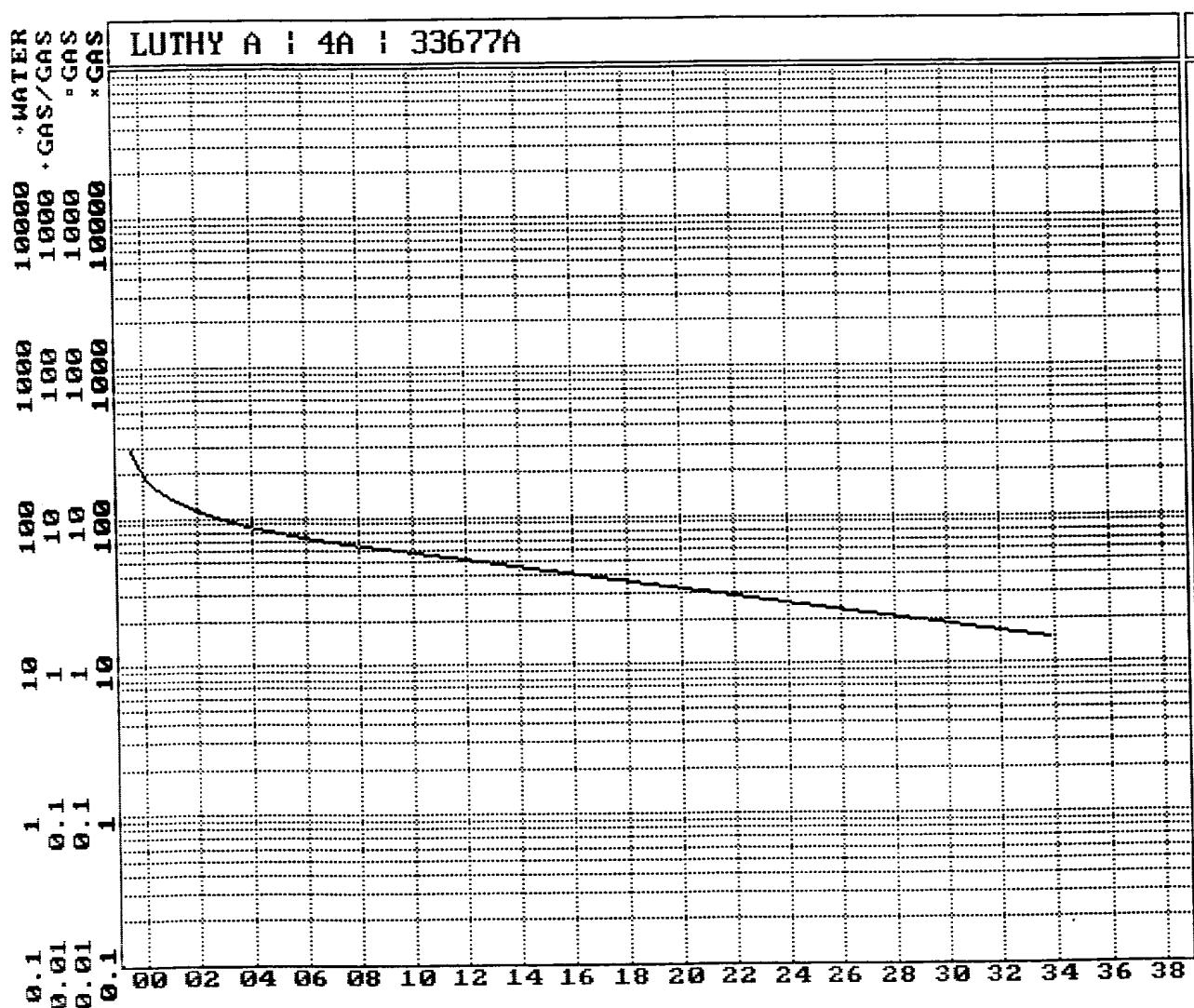
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16  Original plat from E.V.Echohawk 8-10-73		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
		Signature Peggy Cole Printed Name Regulatory Administrator Title Date	
		18 SURVEYOR CERTIFICATION 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 belief.	
Date of Survey Signature and Seal of Professional Surveyer:		Certificate Number	

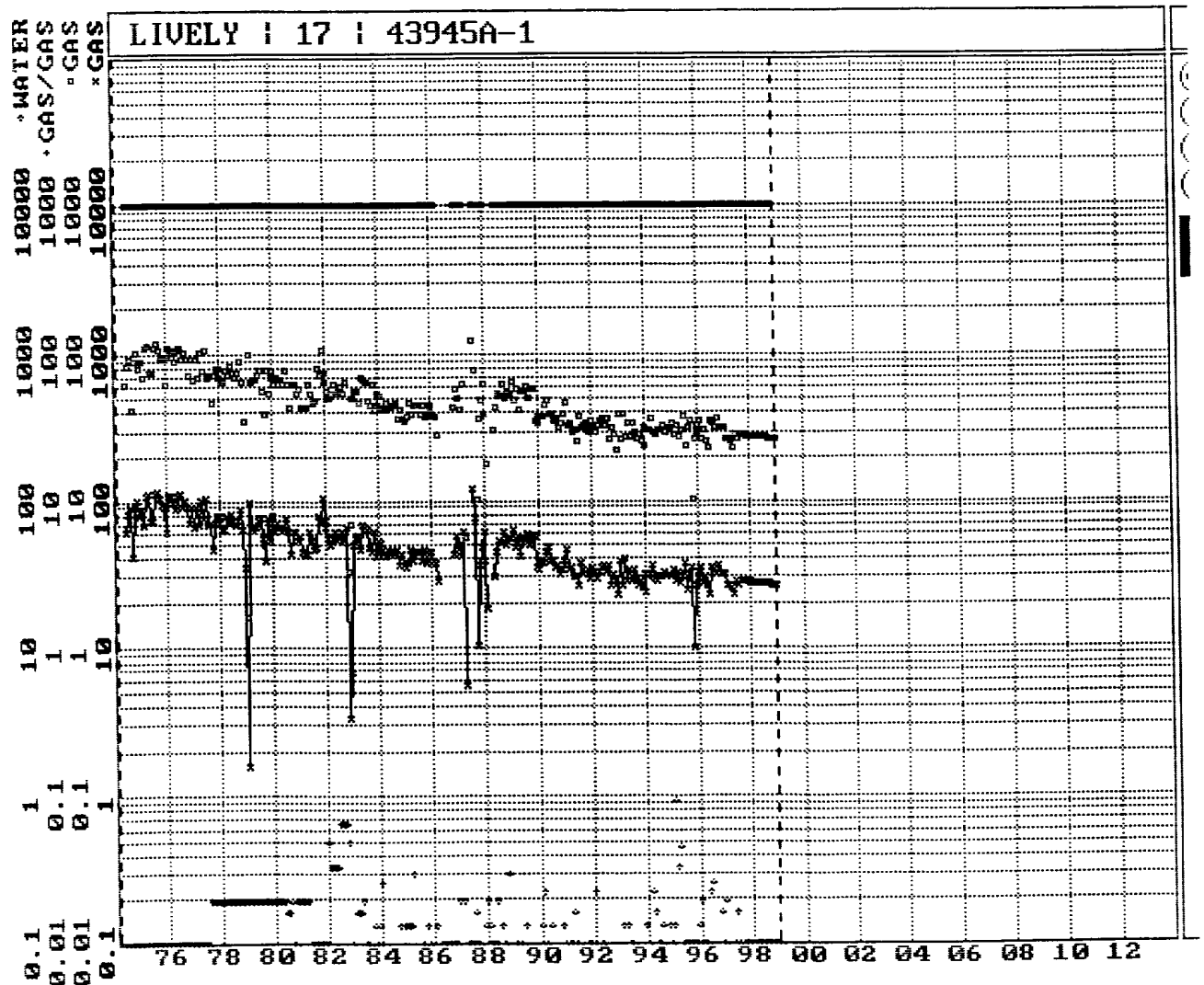
Livey #17  
Expected Production  
Chacra Formation



Lively #17  
Expected Production  
Mesaverde Formation



Lively #17  
Actual Production  
Dakota Formation



SAN JUAN 28-7 UNIT #240 - - 43931A

Print Time: Tue Jun 13 09:00:05 2000

Property ID: 2111

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**LIVELY #17 - - CHACRA OFFSET**

<u>Date</u>	<u>MCF</u>	<u>PSI</u>
8/5/75	0	1,066
11/25/75	7,441	748
5/11/76	34,986	613
6/23/77	77,537	433
8/21/79	141,696	404



Page No.: 1

Print Time: Tue Feb 09 10:27:16 1999

Property ID: 3252

Property Name: LUTHY A | 4 | 54425A-1

Table Name: K:\ARIES\RR99PDP\TEST.DBF

--DATE--	---	CUM GAS--	M SIWHP
.....	.....	McF.....	.....Psi.....

01/20/86	0	1053.0
05/17/86	11527	834.0
12/15/87	130040	604.0
03/15/88	147939	484.0
07/12/89	202583	653.0
09/29/90	247501	510.0
06/21/91	284878	433.0
12/16/91	308334	421.0
07/06/93	379995	372.0

Lively #17

Mesaverde Offset

Page No.: 1

Print Time: Tue Feb 09 12:14:09 1999

Property ID: 13

Property Name: LIVELY | 17 | 43945A-1

Table Name: C:\ARIES\1MINGLE\TEST.DBF

--DATE-- ---CUM\_GAS-- M SIWHP  
■■■■■■■■■■ ■■■■■■Mcf■■■■■■ ■■■■Psi■■■■

02/28/74	0	1613.0
07/18/74	4407	1450.0
05/23/75	30572	1152.0
04/22/76	62932	752.0
05/11/77	98340	1162.0
05/01/79	148897	1127.0
11/01/83	244409	958.0
08/09/85	272157	936.0

Lively #17

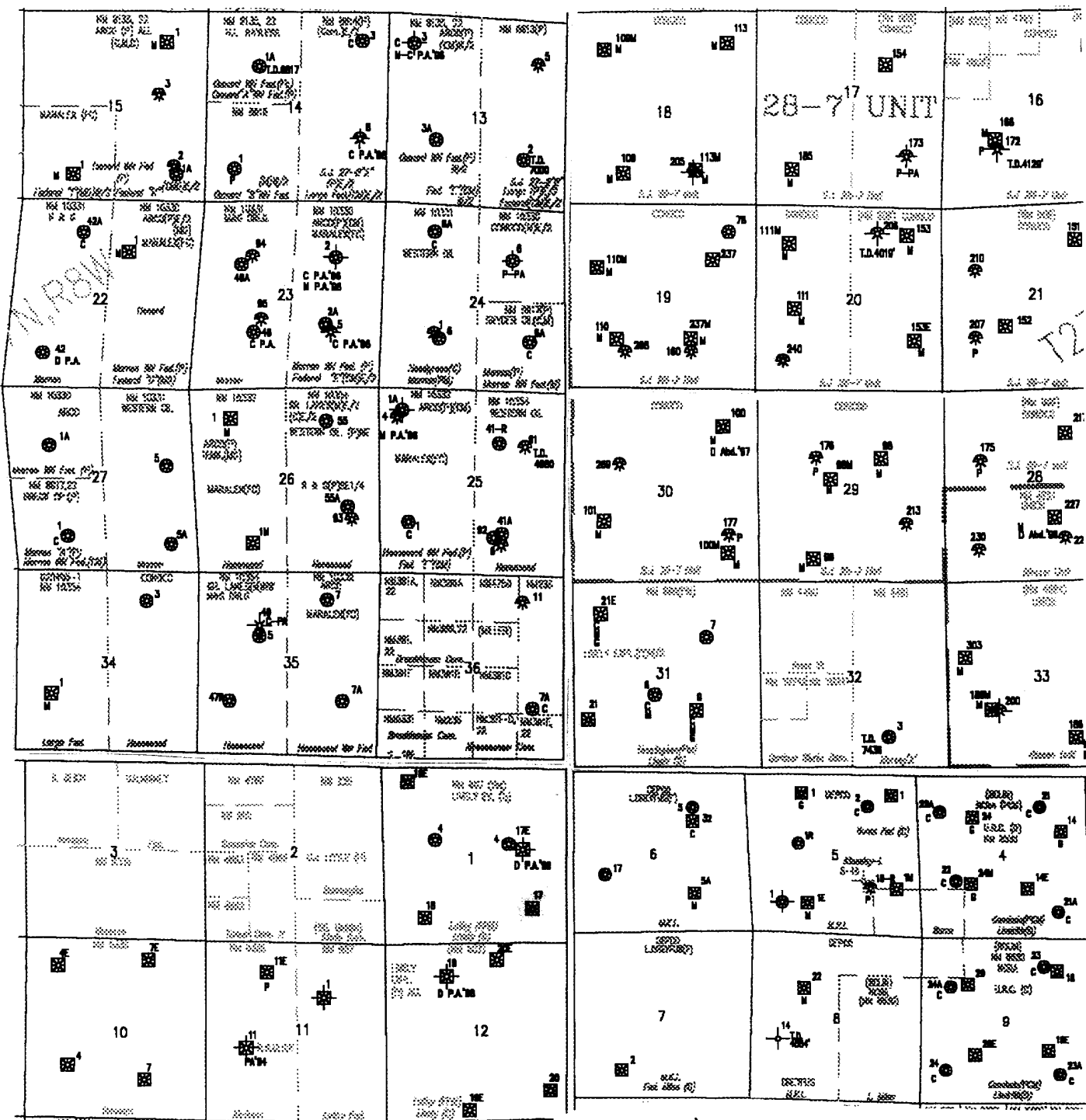
Existing Dakota

**Lively #17**  
Bottom Hole Pressures  
Flowing and Static BHP  
Cullender and Smith Method  
Version 1.0 3/13/94

Chacra		Mesaverde	
<u>CH-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0.716	GAS GRAVITY	0.769
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.82	%N2	0.6
%CO2	0.37	%CO2	0.45
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	4310	DEPTH (FT)	4888
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	509	SURFACE PRESSURE (PSIA)	372
BOTTOMHOLE PRESSURE (PSIA)	570.5	BOTTOMHOLE PRESSURE (PSIA)	426.5
<u>CH-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.716	GAS GRAVITY	0.769
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.82	%N2	0.6
%CO2	0.37	%CO2	0.45
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	4310	DEPTH (FT)	4888
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1066	SURFACE PRESSURE (PSIA)	1053
BOTTOMHOLE PRESSURE (PSIA)	1209.9	BOTTOMHOLE PRESSURE (PSIA)	1234.7

**Lively #17**  
Bottom Hole Pressures  
Flowing and Static BHP  
Cullender and Smith Method  
Version 1.0 3/13/94

<b>Dakota</b>	
<b><u>DK-Current</u></b>	
GAS GRAVITY	0.699
COND. OR MISC. (C/M)	C
%N2	0.63
%CO2	1.04
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	6575
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	936
BOTTOMHOLE PRESSURE (PSIA)	1124.6
<b><u>DK-Original</u></b>	
GAS GRAVITY	0.699
COND. OR MISC. (C/M)	C
%N2	0.63
%CO2	1.04
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	6575
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1613
BOTTOMHOLE PRESSURE (PSIA)	1972.7



Lively #17

Dakota / Mesaverde / Chacra

26N - 8W - 01P

DATE IN 12/23/99	SUSPENSE 1/12/00	ENGINEER DC	LOGGED KW	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
- Engineering Bureau -

**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

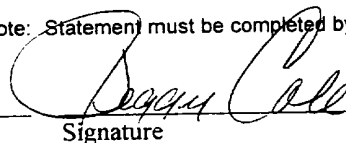
[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Statement of Understanding

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