

| | | | | |
|-----------------|-----------------|-------------|-----------|----------|
| DATE IN 7/17/00 | SUSPENSE 8/7/00 | ENGINEER DC | LOGGED KN | TYPE DHC |
|-----------------|-----------------|-------------|-----------|----------|

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

District II
811 South First Street, Artesia, NM 88210

OIL CONSERVATION DIVISION

APPLICATION TYPE

District III
1000 Rio Brazos Road, Aztec, NM 87410

2040 South Pacheco
Santa Fe, New Mexico 87505

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator
LIVELY

18E

Address
D 01-26N-08W

San Juan

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

OGRID No.14538 Property Code 18182 API No. 30-045-24581 Lease Type: X 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 | 6654'-6768' |
| 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: 799 psi (see attached) Original: 2614 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: 918 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 X No

If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes X No
Yes No

Are all produced fluids from all commingled zones compatible with each other?

Yes X No

Will commingling decrease the value of production?

Yes No X

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 X 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.

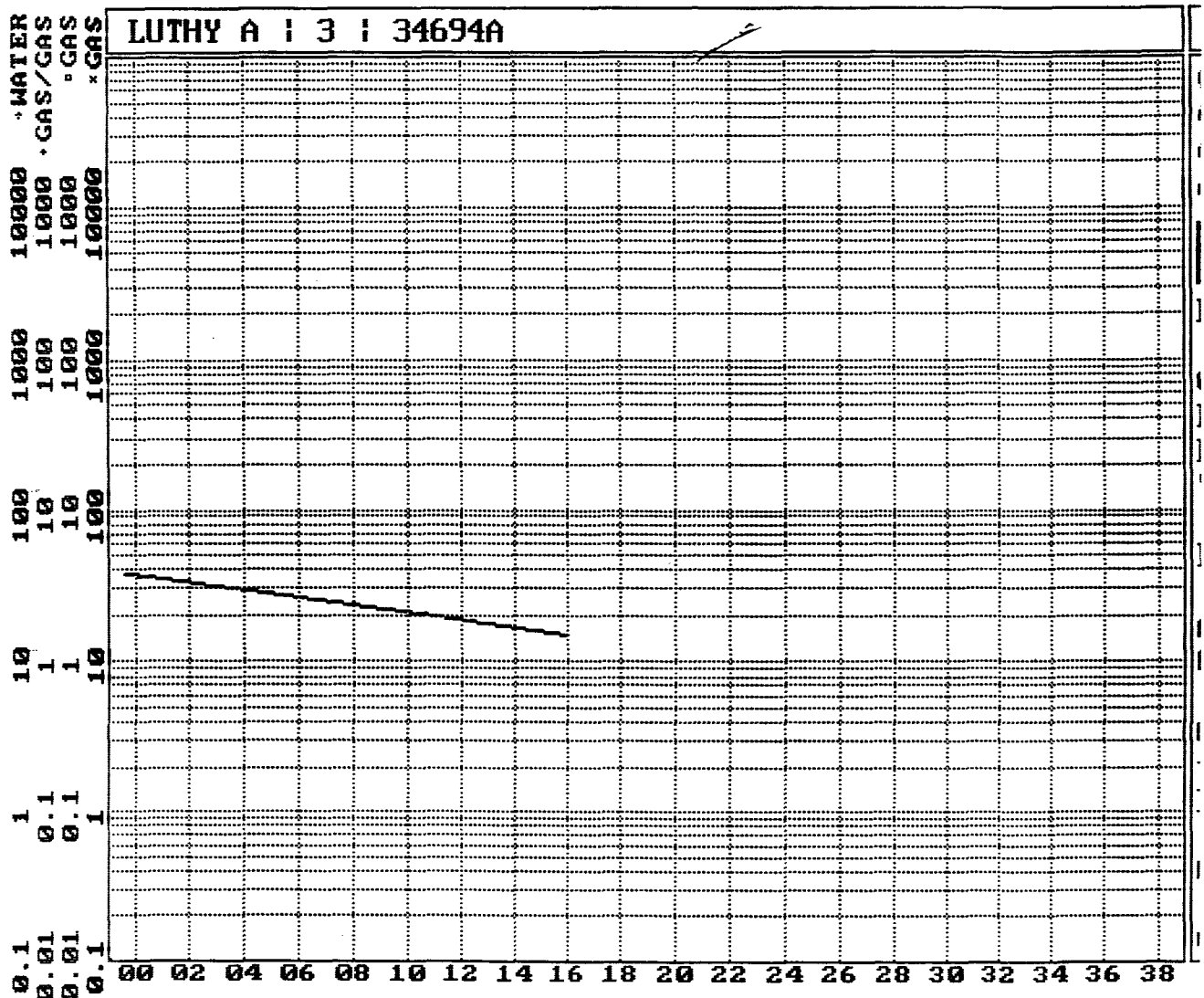
SIGNATURE Wayne Fletcher TITLE Sr. Prod. Eng. DATE 7/14/00

PCO

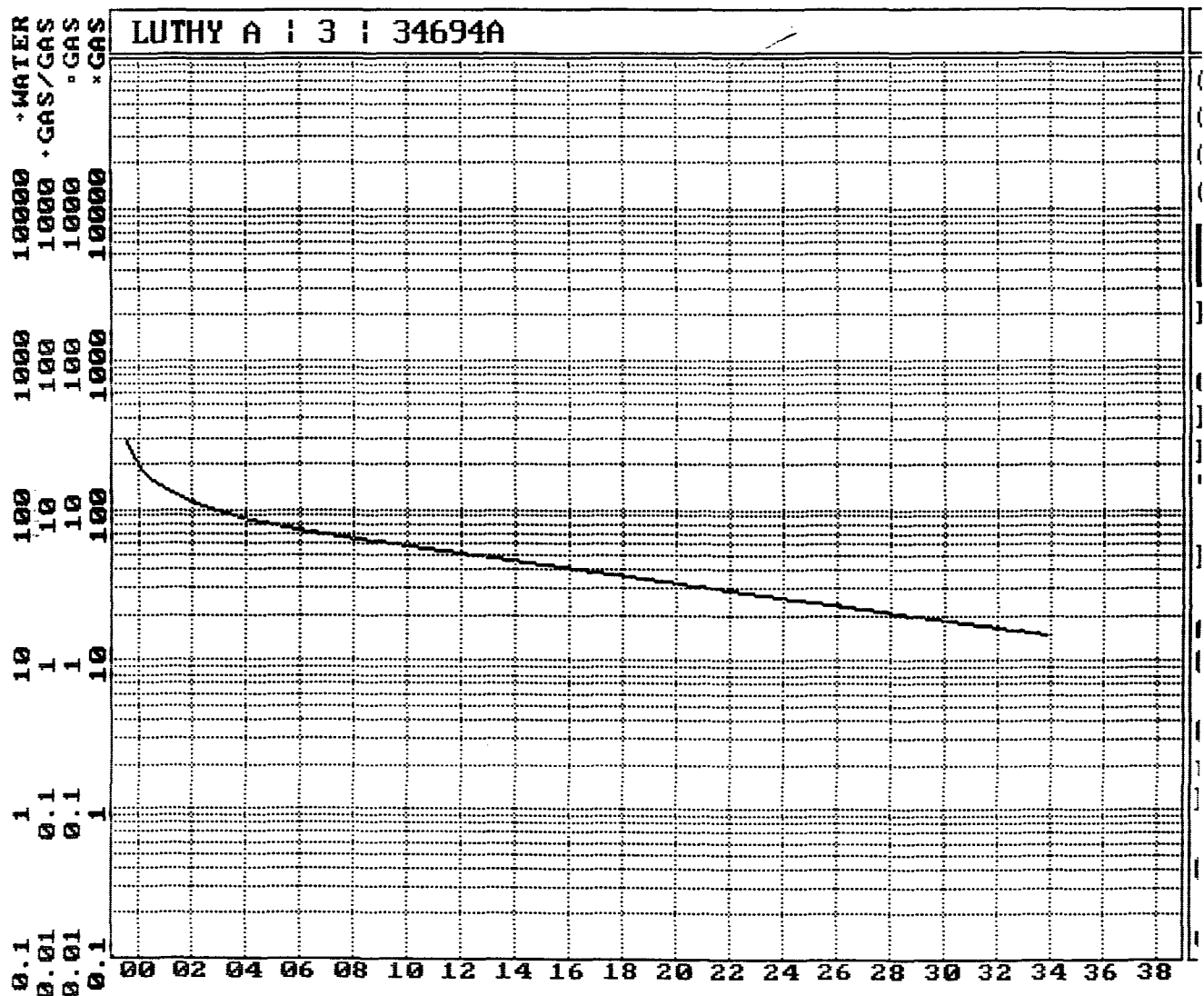
TYPE OR PRINT NAME Wayne Fletcher

TELEPHONE NO. (505) 326-9700

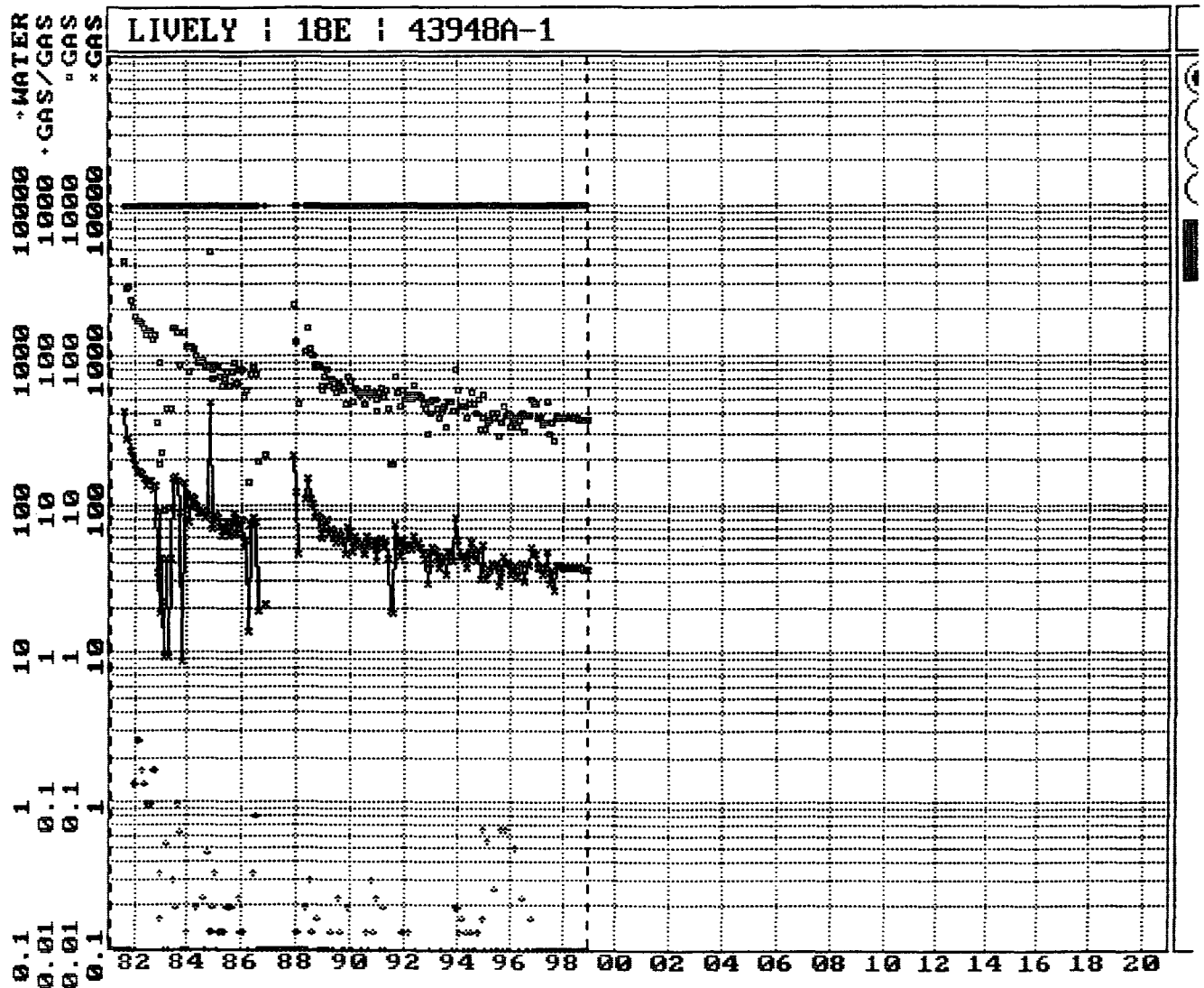
Lively #18E
Expected Production
Chacra Formation



Lively #18E
Expected Production
Mesaverde Formation



Lively #18E
Actual Production
Dakota Formation



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 30-045-24581 | | 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 18E |
| ⁷ OGRID No. 14538 | | ⁸ Operator Name Burlington Resources Oil & Gas Company | | | ⁹ Elevation 6220' 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| D | 1 | 26N | 8W | | 410' | North | 750' | West | 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-W/321.50 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ Order No. |
|--|-------------------------------|----------------------------------|-------------------------|

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 <div style="border: 1px solid black; padding: 5px; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">410</div> <div>750</div> </div> | | | | ¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i> <hr/> Signature Peggy Cole <hr/> Printed Name Regulatory Administrator <hr/> Title <hr/> Date | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | ¹⁸ SURVEYOR CERTIFICATION <i>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.</i> <hr/> Date of Survey <hr/> Signature and Seal of Professional Surveyer: <hr/> Certificate Number | |
| | | | | | |
| | | | | | |
| | | | | | |

Lively #18E
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 #18E
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

| Dakota | |
|--------------------------------|--------|
| <u>DK-Current</u> | |
| 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) | 671 |
| BOTTOMHOLE PRESSURE (PSIA) | 799.1 |
| <u>DK-Original</u> | |
| 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) | 2130 |
| BOTTOMHOLE PRESSURE (PSIA) | 2614.3 |

SAN JUAN 28-7 UNIT #240 - - 43931A
Print Time: Tue Jun 13 09:00:05 2000
Property ID: 2111

LIVELY #18E - - 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 #18E

Mesaverde Offset

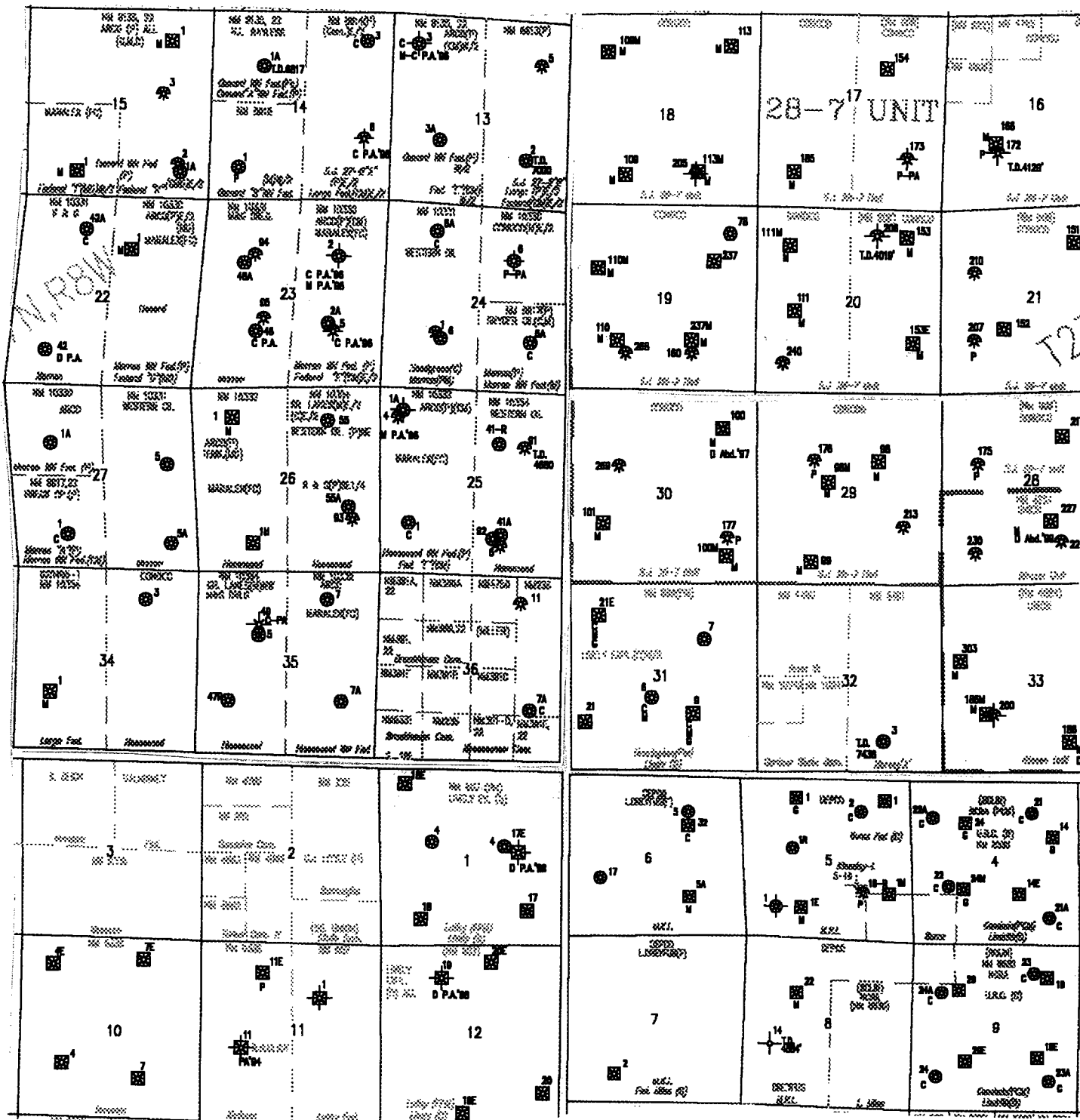
Page No.: 1
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Property ID: 1131
Property Name: LIVELY | 18E | 43948A-1
Table Name: K:\ARIES\RR99PDP\TEST DRP

--DATE-- ---CUM GAS-- M SIWHP
Mcf Psi

| | | |
|----------|--------|--------|
| 03/14/81 | 0 | 2130.0 |
| 06/01/82 | 68286 | 884.0 |
| 11/09/82 | 90289 | 810.0 |
| 10/17/83 | 113834 | 859.0 |
| 08/09/85 | 182072 | 711.0 |
| 06/01/88 | 225577 | 903.0 |
| 05/07/90 | 273369 | 671.0 |

Lively #18E

Dakota Offset



Lively #18E

Dakota / Mesaverde / Chacra

26N - 8W - 01D