DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

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
Revised August 1999

APPROVAL PROCESS:
___ Administrative ___Hearing

EXISTING WELLBORE
_X_ YES ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY — PO BOX 4289, FARMINGTON, NM 87499
Operator — Address

LIVELY	18	M 01-26N-08W	SAN JUAN
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County

OGRID NO._____14538_____ Property Code_____ API NO._30-045-21326_____ Spacing Unit Lease Types: (check 1 or more) 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	OTERO CHACRA – 82329	BLANCO MESAVERDE – 72319	BASIN DAKOTA - 71599
2. Top and Bottom of Pay Section (Perforations)	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION	WILL BE SUPPLIED UPON COMPLETION
3. Type of production (Oil or Gas)	GAS	GAS	GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING	FLOWING	FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 281 psi (see attachment)	a. (Current) 427 psi (see attachment)	a. (Current) 1125 psi (see attachment)
	b. (Oriiginal) 844 psi (see attachment)	b. (Oriiginal) 1235 psi (see attachment)	b. (Oriiginal) 1973 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1221	BTU 1304	BTU 1181
7. Producing or Shut-In?	SHUT-IN	SHUT-IN	SHUT-IN
Production Marginal? (yes or no)	NO	NO	YES
* If Shut-In, give 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: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
* If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION

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, 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. __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 data.
* Data to support allocation method or formula.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* 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 Wayne Fletcher TITLE PRODUCTION ENGINEER DATE: 12-10-99

TYPE OR PRINT NAME B. 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	[2] Pool Code	[3] Pool Name
30-045-21326	71599 82329/72319/	Basin Dakota Otero Chacra/Blanco Mesaverde/

[4] Property Code	[5] Property Name	[6] Well Number
18182	Lively	18

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	Burlington Resources Oil & Gas Company	6140'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
M	1	26N	8W		800'	South	1180	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	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
Cha-160 MV/DK-W/321.50			

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 8-9-73

1180
800'

[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

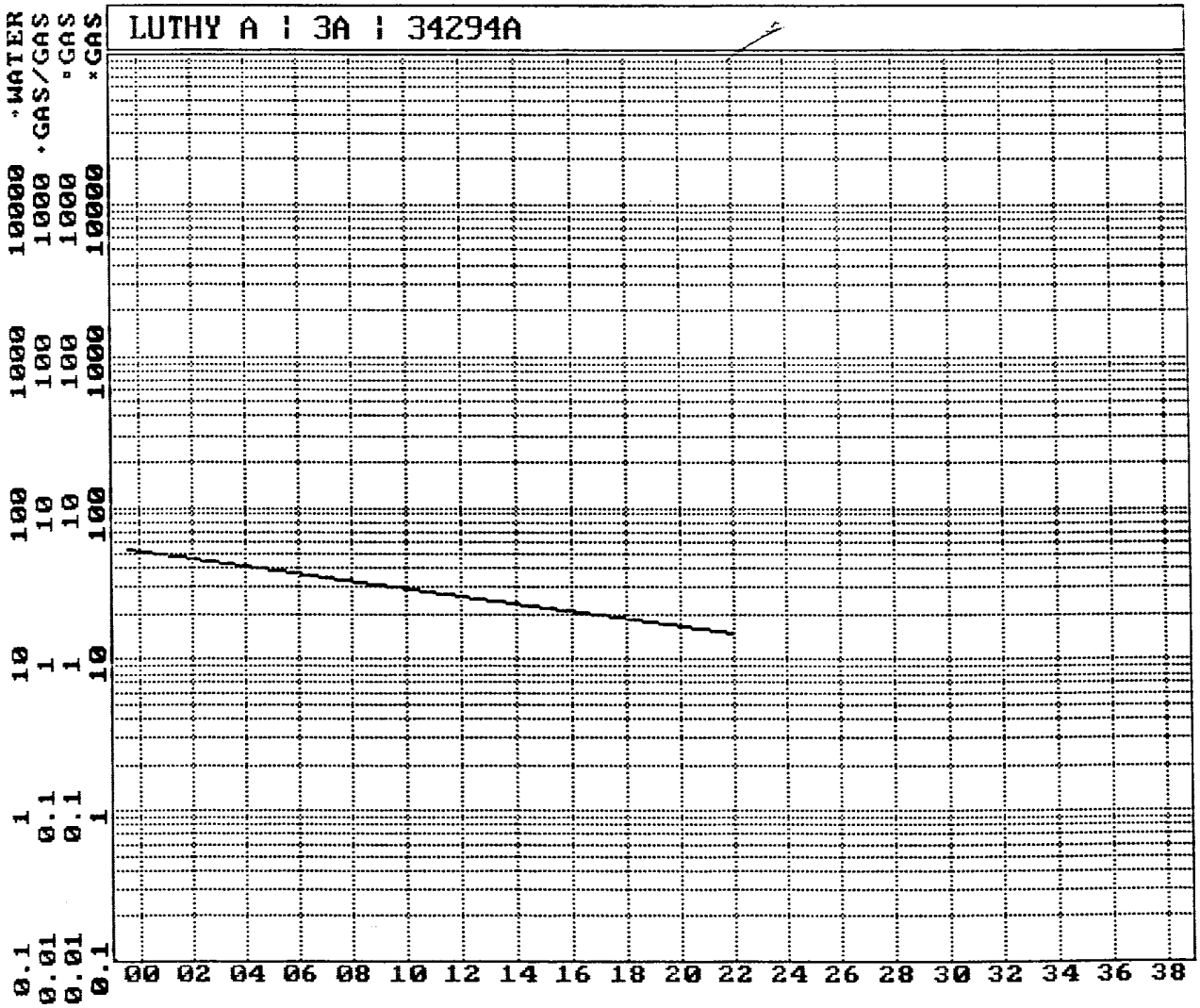
Signature and Seal of Professional Surveyer:

Certificate Number

Lively #18

Expected Production

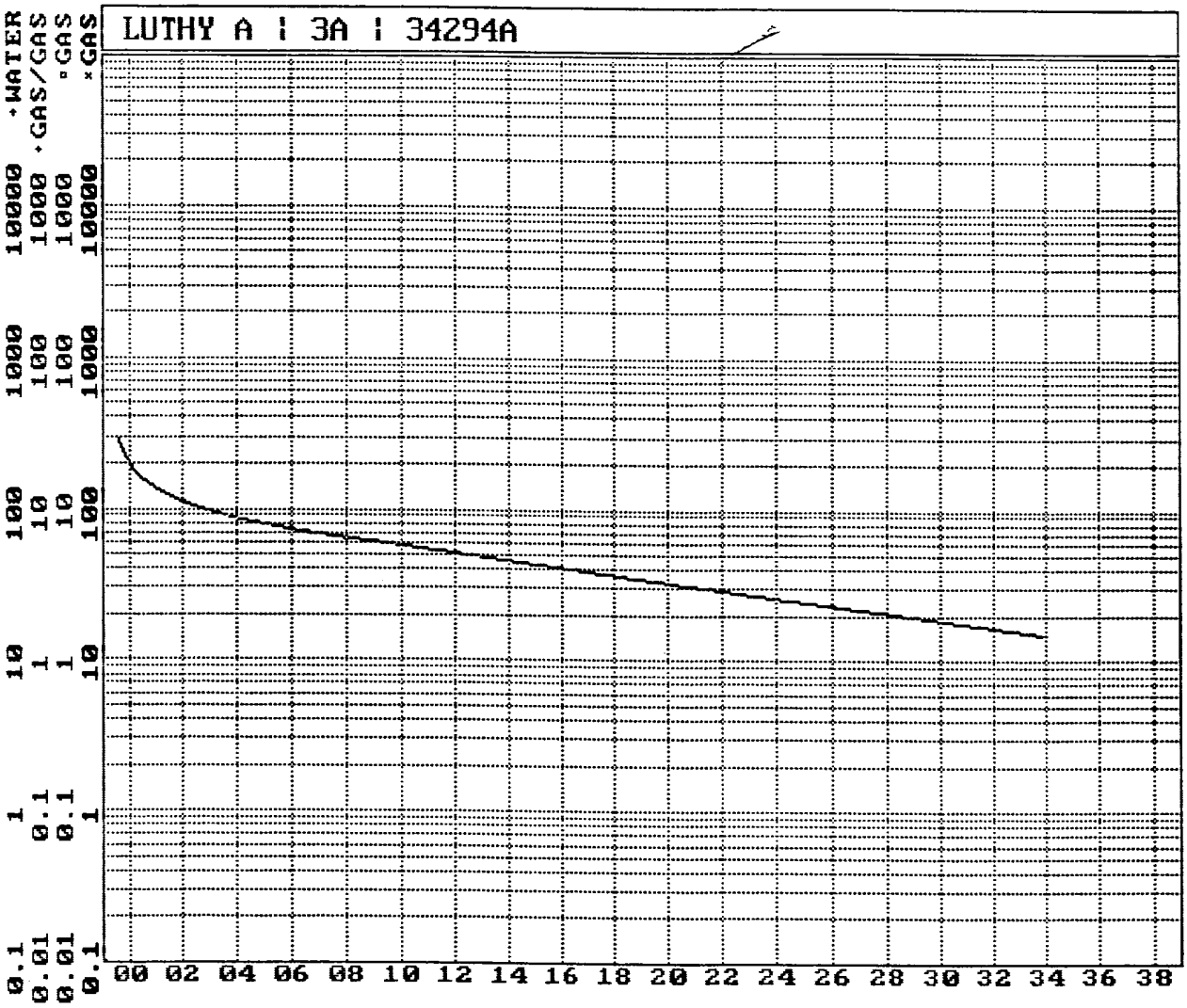
Chacra Formation



Lively #18

Expected Production

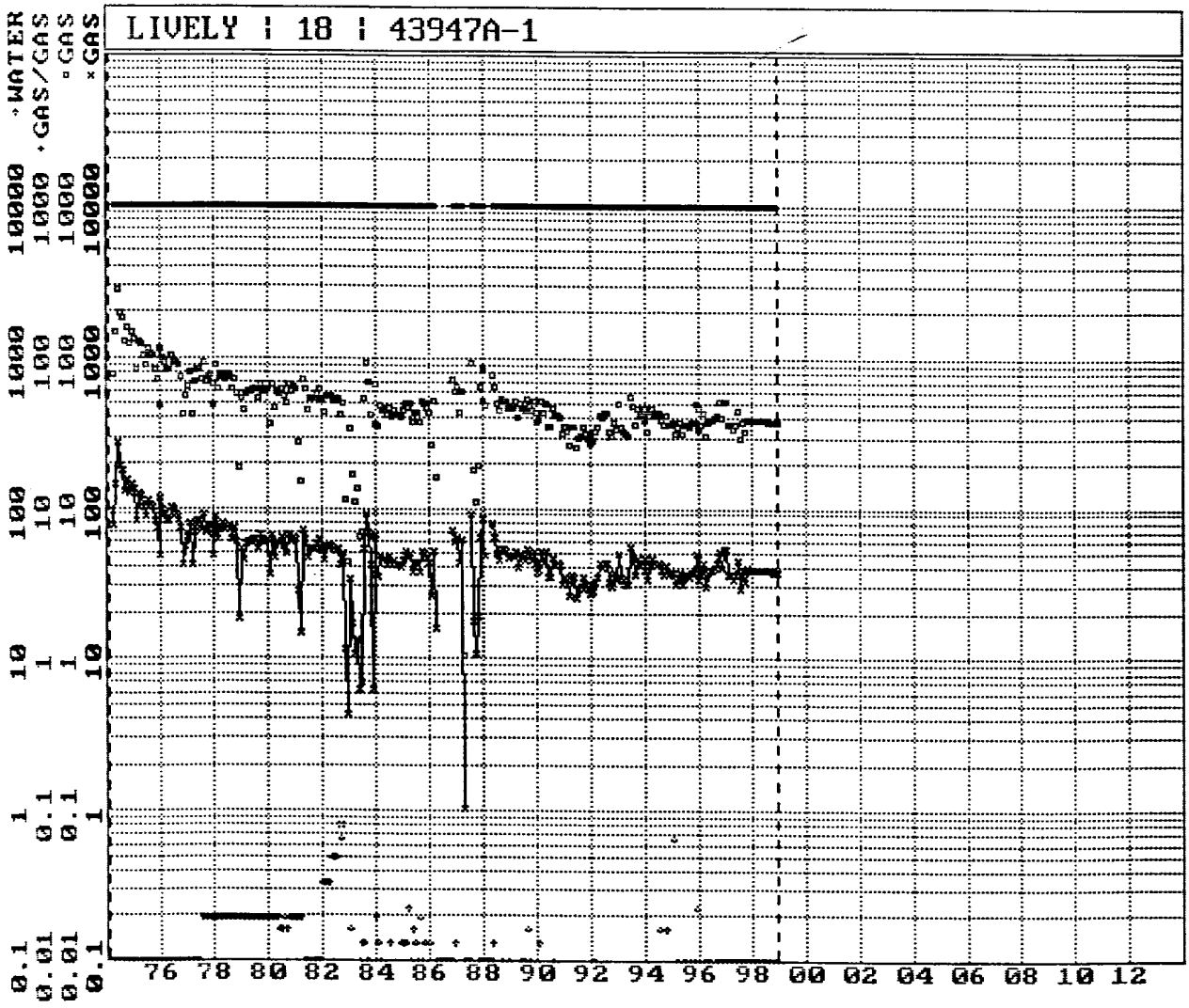
Mesaverde Formation



Lively #18

Actual Production

Dakota Formation



Lively #18

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Chacra

CH-Current

GAS GRAVITY	0.716
COND. OR MISC. (C/M)	C
%N2	0.82
%CO2	0.37
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	4310
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	252
BOTTOMHOLE PRESSURE (PSIA)	280.9

CH-Original

GAS GRAVITY	0.716
COND. OR MISC. (C/M)	C
%N2	0.82
%CO2	0.37
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	4310
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	749
BOTTOMHOLE PRESSURE (PSIA)	843.9

Mesaverde

MV-Current

GAS GRAVITY	0.769
COND. OR MISC. (C/M)	C
%N2	0.6
%CO2	0.45
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	4888
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	372
BOTTOMHOLE PRESSURE (PSIA)	426.5

MV-Original

GAS GRAVITY	0.769
COND. OR MISC. (C/M)	C
%N2	0.6
%CO2	0.45
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	4888
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1053
BOTTOMHOLE PRESSURE (PSIA)	1234.7

Lively #18

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Dakota

DK-Current

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

DK-Original

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

Page No.: 1
Print Time: Tue Feb 09 11:32:56 1999
Property ID: 10283
Property Name: NAVAJO INDIAN B | 3 | 32088C-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

--DATE--	---CUM_GAS-- Mcf	M_SIWHP Psi
04/13/59	0	749.0
05/16/69	0	361.0
09/25/71	188761	292.0
08/17/72	197005	331.0
08/17/74	219077	271.0
05/17/76	239124	235.0
05/18/78	255848	300.0
04/08/80	270767	210.0
04/03/85	292048	290.0
02/17/88	293824	333.0
11/02/90	305416	286.0
03/29/92	311632	252.0

Lively #18

Chacra Offset

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-- Mcf	M_SIWHP 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 #18

Mesaverde Offset

Page No.: 1
Print Time: Tue Feb 09 11:04:33 1999
Property ID: 1130
Property Name: LIVELY | 18 | 43947A-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

--DATE--	---CUM_GAS-- Mcf	M_SIWHP Psi
02/09/74	0	2398.0
05/25/74	6823	1712.0
05/22/75	60672	1032.0
04/22/76	91141	932.0
05/11/77	120819	932.0
05/01/79	169599	857.0
11/09/82	238516	773.0
10/17/83	249154	833.0
08/09/85	277765	813.0
08/31/88	315998	709.0
05/07/90	346556	657.0

Lively #18

Existing Dakota

Lively #18

Chacra / Mesaverde / Dakota

26N – 8W – 01M