DATE IN	SUSPENSE	ENGINEER	LOGGED	TYPE
2/25/98	3/17/98	DC	MV	DHC

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1855

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]

RECEIVED
FEB 25 1998
OIL CONSERVATION DIVISION

[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
☒ 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] ☒ 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 Bradfield	Peggy Bradfield	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

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS :
_X_ Administrative ___Hearing

EXISTING WELLBORE
__YES __x_ NO

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

Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
Newberry	12M	P 04-31N-12W	San Juan

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. __14538____ Property Code ___7360_____ API NO. __30-045-not assigned_____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	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion
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 Original	(Current) a. 551 psi (see attachment)	a.	a. 853 psi (see attachment)
	(Original) b. 1244 psi (see attachment)	b.	b. 2531 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1227		BTU 1161
7. Producing or Shut-In?	shut in		shut in
Production Marginal? (yes or no)	no		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	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: n/a Rates:	Date: 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: %	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? ___Yes _x__No
If not, have all working, overriding, and royalty interests been notified by certified mail? _X__Yes ___No
Have all offset operators been given written notice of the proposed downhole commingling? _X_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). ___Reference Order _____ attached

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 all offset operators.
* 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 Sean Woolverton TITLE: Production Engineer DATE: 02-23-98

TYPE OR PRINT NAME Sean Woolverton 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	71599, 72319	Basin Dakota, Blanco Mesaverde

[4] Property Code	[5] Property Name	[6] Well Number
7360	NEWBERRY	12M

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	6104'

[10] Surface Location

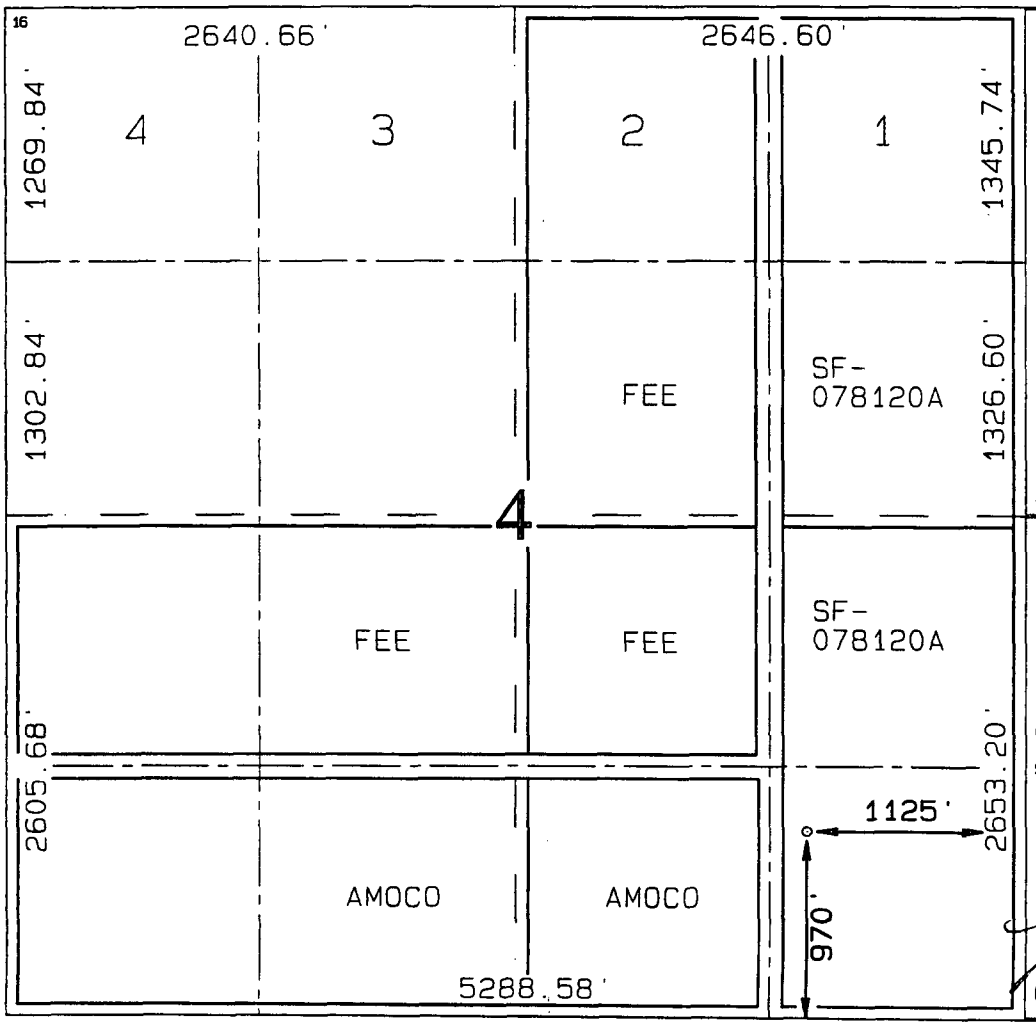
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	31N	12W		970	South	1125	East	SAN JUAN

[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.
MV-S/320 DK-E/320.37			

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



[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 Bradfield

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.

DECEMBER 10, 1997

Date of Survey

Signature and Seal of Professional Surveyor

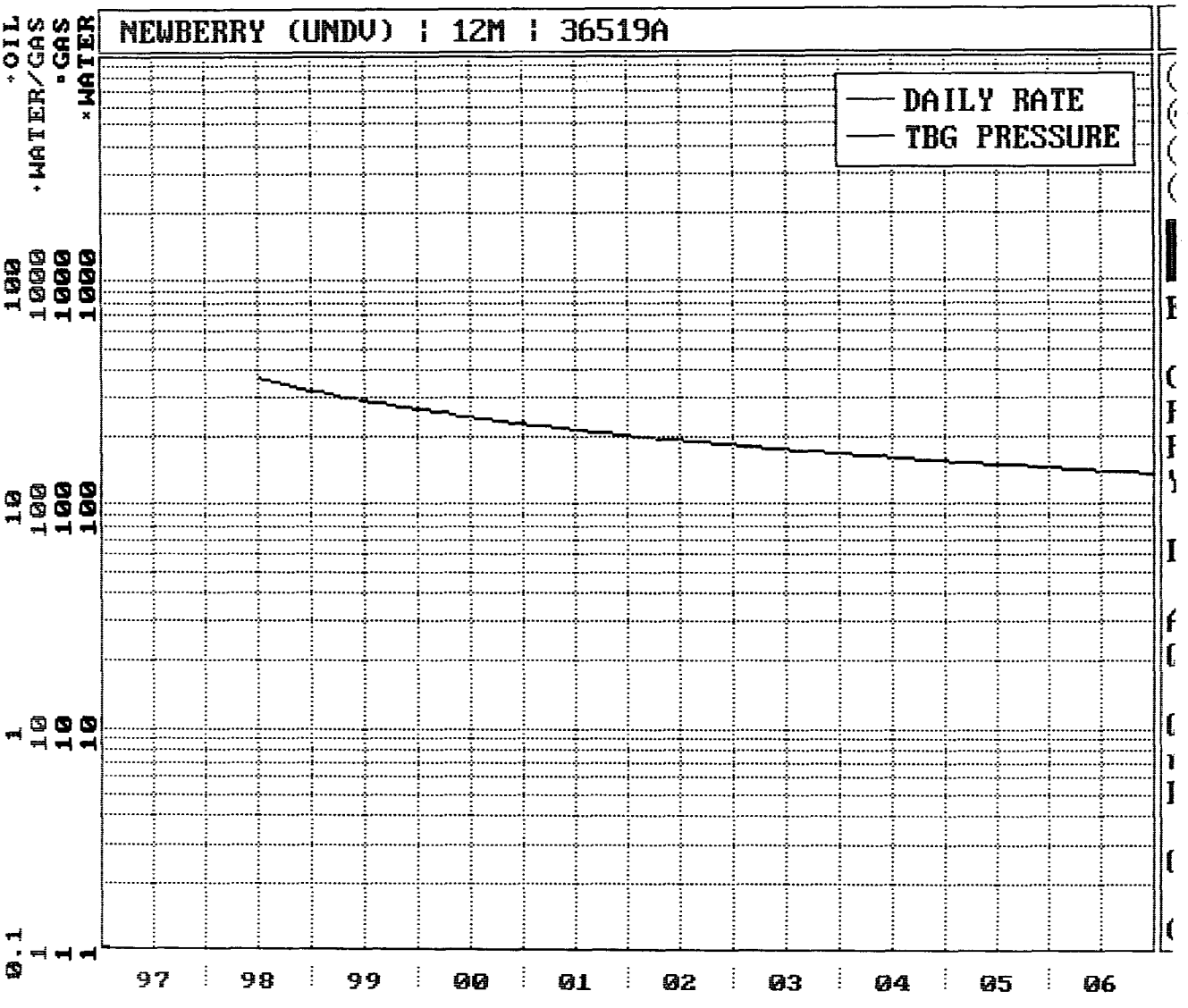
NEALE C. EDWARDS
NEW MEXICO
6857
REGISTERED PROFESSIONAL SURVEYOR

Certificate Number

Newberry #12M

Expected Production Curve

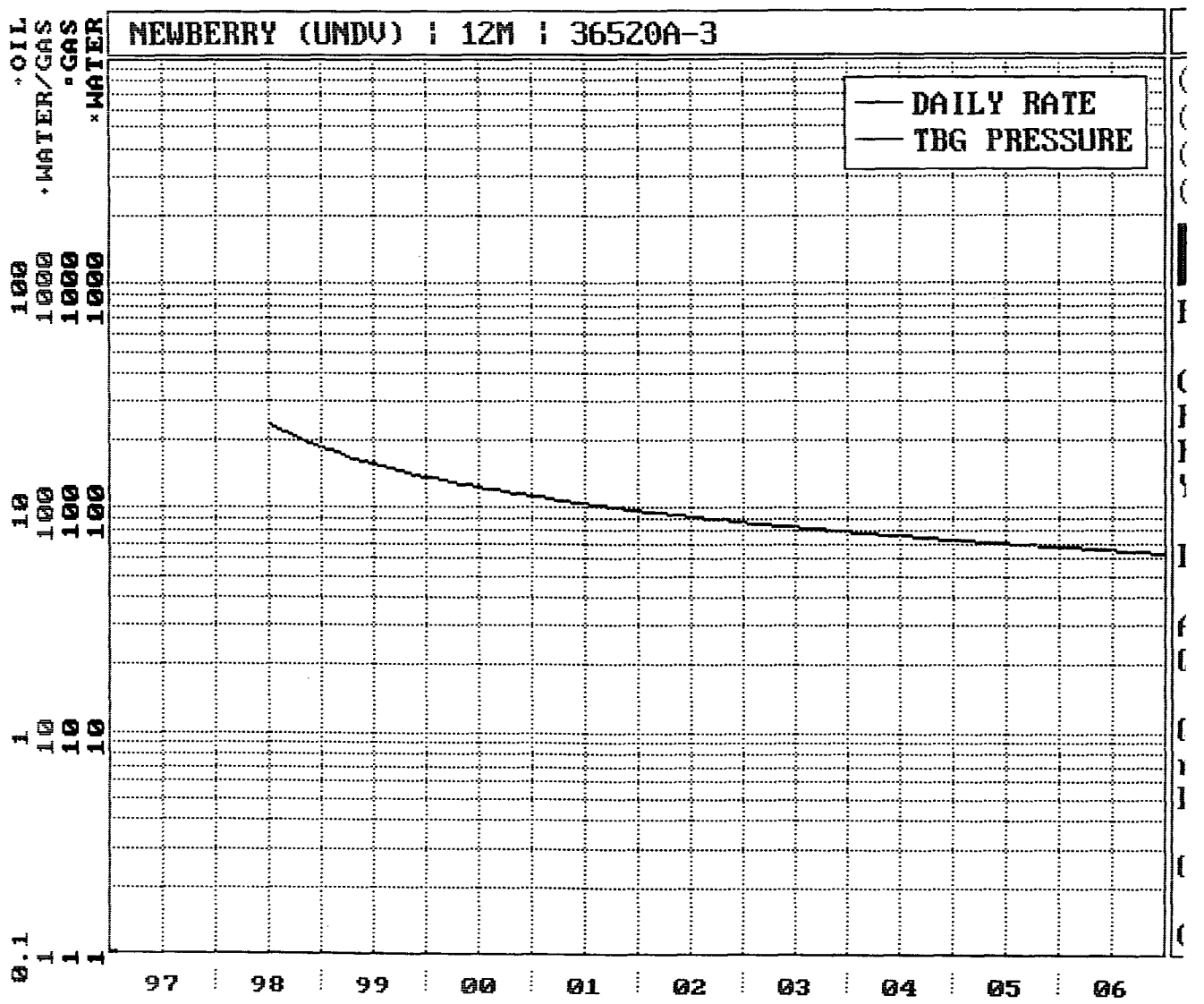
Blanco Mesaverde



Newberry #12M

Expected Production Curve

Basin Dakota



Newberry #12M

Bottom Hole Pressures

Flowing and Static BHP

Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde

MV-Current

GAS GRAVITY	0.722
COND. OR MISC. (C/M)	C
%N2	0.4
%CO2	0.75
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5037
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	482
BOTTOMHOLE PRESSURE (PSIA)	551.1

MV-Original

GAS GRAVITY	0.722
COND. OR MISC. (C/M)	C
%N2	0.4
%CO2	0.75
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5037
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1071
BOTTOMHOLE PRESSURE (PSIA)	1244.4

Dakota

DK-Current

GAS GRAVITY	0.702
COND. OR MISC. (C/M)	C
%N2	0.35
%CO2	2.22
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7323
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	710
BOTTOMHOLE PRESSURE (PSIA)	852.7

DK-Original

GAS GRAVITY	0.702
COND. OR MISC. (C/M)	C
%N2	0.35
%CO2	2.22
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	7323
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2058
BOTTOMHOLE PRESSURE (PSIA)	2530.8

Print Time: Tue Jan 06 13:25:13 1998
Property ID: 3336
Property Name: NEWBERRY | 8 | 49826A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

Newberry #12M
Mesaverde offset

--DATE--	M_SIWHP Psi	
04/26/57	1071.0	- original
05/09/57	1070.0	
09/24/57	819.0	
03/15/58	771.0	
03/22/59	738.0	
03/22/60	850.0	
03/21/61	688.0	
02/01/62	677.0	
01/11/63	721.0	
10/28/64	622.0	
07/19/65	643.0	
07/06/66	632.0	
06/23/67	607.0	
07/03/68	607.0	
10/10/69	568.0	
04/20/70	575.0	
05/25/71	540.0	
07/06/72	522.0	
07/25/73	504.0	
04/23/74	477.0	
04/28/76	506.0	
04/18/78	413.0	
05/01/80	446.0	
09/17/81	484.0	
05/17/82	475.0	
06/01/84	492.0	
09/09/86	485.0	
05/09/89	442.0	
05/20/91	468.0	
06/21/91	480.0	
10/04/93	482.0	- current

Page No.: 5
Print Time: Tue Jan 06 13:25:14 1998
Property ID: 1488
Property Name: RICHARDSON | 10 | 66591-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

Newberry #12M
Dakota offset

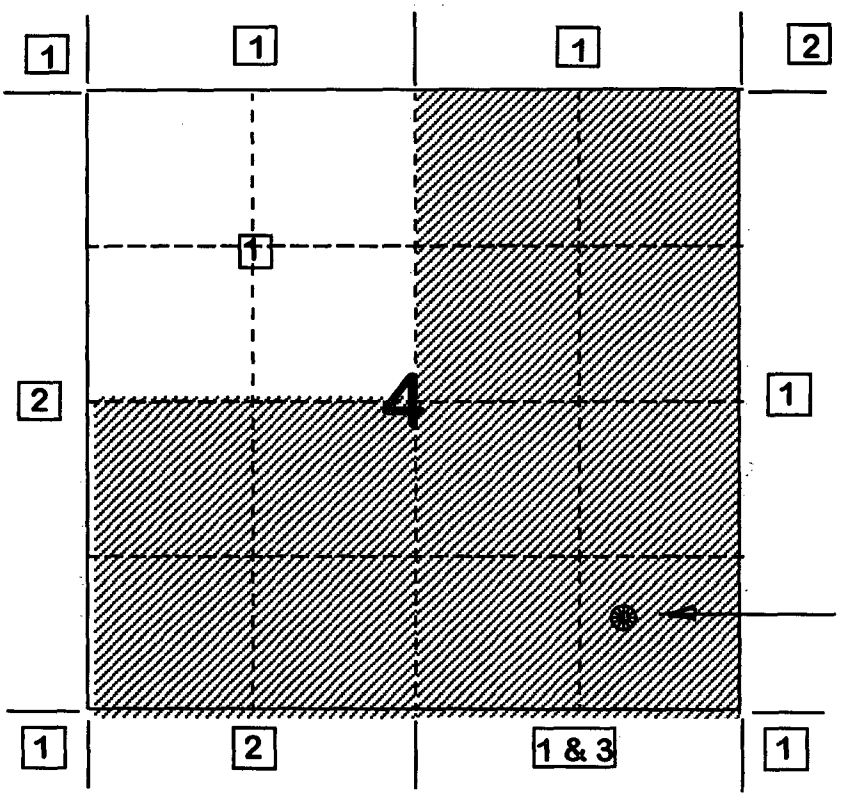
--DATE--	M_SIWHP Psi	
07/18/64	2058.0	- original
01/29/70	1119.0	
05/26/71	970.0	
02/26/72	903.0	
07/03/73	832.0	
04/18/75	741.0	
05/17/77	678.0	
05/02/79	737.0	
08/31/81	734.0	
06/08/83	940.0	
04/02/85	729.0	
04/19/88	712.0	
06/08/90	710.0	- current

BURLINGTON RESOURCES OIL AND GAS COMPANY

Newberry #12M
OFFSET OPERATOR \ OWNER PLAT

Mesaverde (E/2) / Dakota (S/2) Formations Commingle Well

Township 31 North, Range 12 West



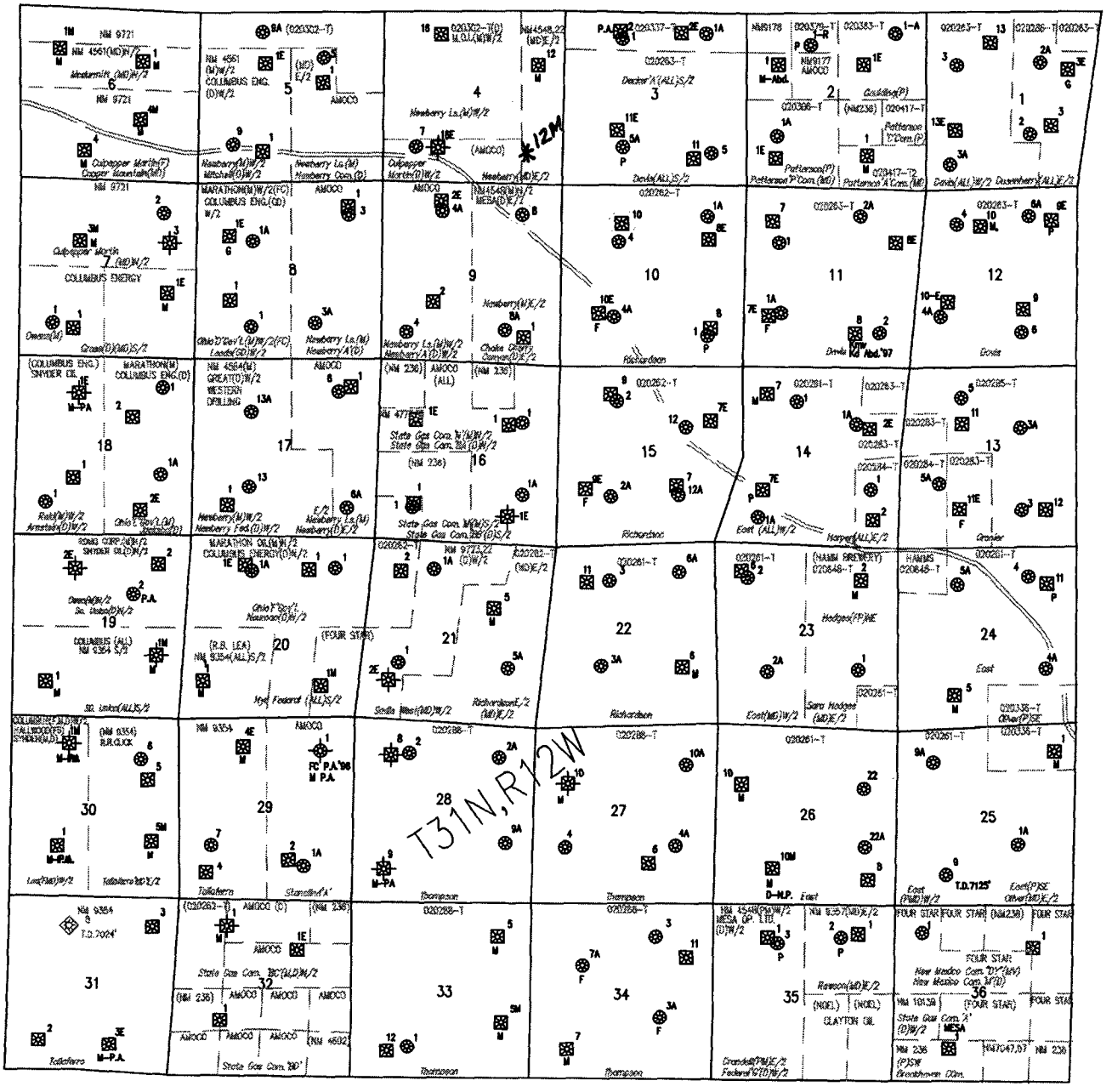
1) Burlington Resources
2) Amoco Production Company
   c/o Bruce Zimney
   P.O. Box 800
   Denver, CO 80201

3) Conoco Inc.
   10 Desta Drive, Suite 100W
   Midland, Texas 79705-4500

Newberry #12M

Blanco Mesaverde / Basin Dakota

31N-12W-04P



01/29/98 J-I-B SCHEDULE LWR270NL

INQUIRE <WELLSTAT>

WELL: 36519A NEWBERRY (UNDV) 12A

CO-OWNER	BILLING %	TOTAL %
105086 AMOCO PRODUCTION COMPANY	5.351779	
999810 BURLINGTON RESOURCES OIL & GAS	19.833081	
999970 SOUTHLAND ROYALTY TRUST	74.815140	
		100.000000

MV

ENTER=NEXT PAGE PF11=PAGE BACK PF12=MENU PF24=HELP

01/29/98 J-I-B SCHEDULE LWR270NL

INQUIRE <WELLSTAT>

WELL: 36520A NEWBERRY (UNDV) 12E

CO-OWNER	BILLING %	TOTAL %
105086 AMOCO PRODUCTION COMPANY	16.880719	
239554 CONOCO INC	6.242782	
999810 BURLINGTON RESOURCES OIL & GAS	39.422930	
999970 SOUTHLAND ROYALTY TRUST	37.453569	
		100.000000

ENTER=NEXT PAGE PF11=PAGE BACK PF12=MENU PF24=HELP

BURLINGTON RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

Amoco Production Company
Outside Operated Joint Interest
PO Box 21868
Tulsa, OK 74121-1868

Conoco Inc.
c/o Donna Moore
10 Desta Drive, Suite 100W
Midland, TX 79705-4500

BURLINGTON RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

BURLINGTON RESOURCES

SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289