

DATE IN 3/29/00	SUSPENSE 4/18/00	ENGINEER DC	LOGGED KN	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

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

2712

**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]**

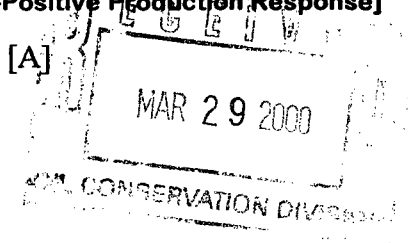
[A] Location - Spacing Unit - Directional Drilling  
NSL NSP DD SD

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] X 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

*Peggy Cole*  
Signature

Regulatory/Compliance Administrator

Print or Type Name

Title

Date

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

\_\_\_ YES \_\_\_X\_ NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator

Address

SAN JUAN 27-4 UNIT COM

34M

34-27N-04W

RIO ARRIBA

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 20056 API NO. 30-039-XXXXX 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	a. (Current) 604 psi (see attachment) b. (Original) 1310 psi (see attachment)		a. (Current) 1288 psi (see attachment) b. (Original) 2952 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1173		BTU 1304
7. Producing or Shut-In?	SHUT-IN		SHUT-IN
Production Marginal? (yes or no)	NO		YES
* If Shut-In, give date and oil/gas/water rates of last production	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give date and oil/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? \_\_\_ Yes \_\_\_X\_ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? \_\_\_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).

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

*API Number 30-039-		*Pool Code 72319/71599		*Pool Name Blanco Mesaverde/Basin Dakota	
*Property Code 20056		*Property Name SAN JUAN 27-4 UNIT COM			*Well Number 34M
*OGRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			*Elevation 7175'

<sup>10</sup> Surface Location

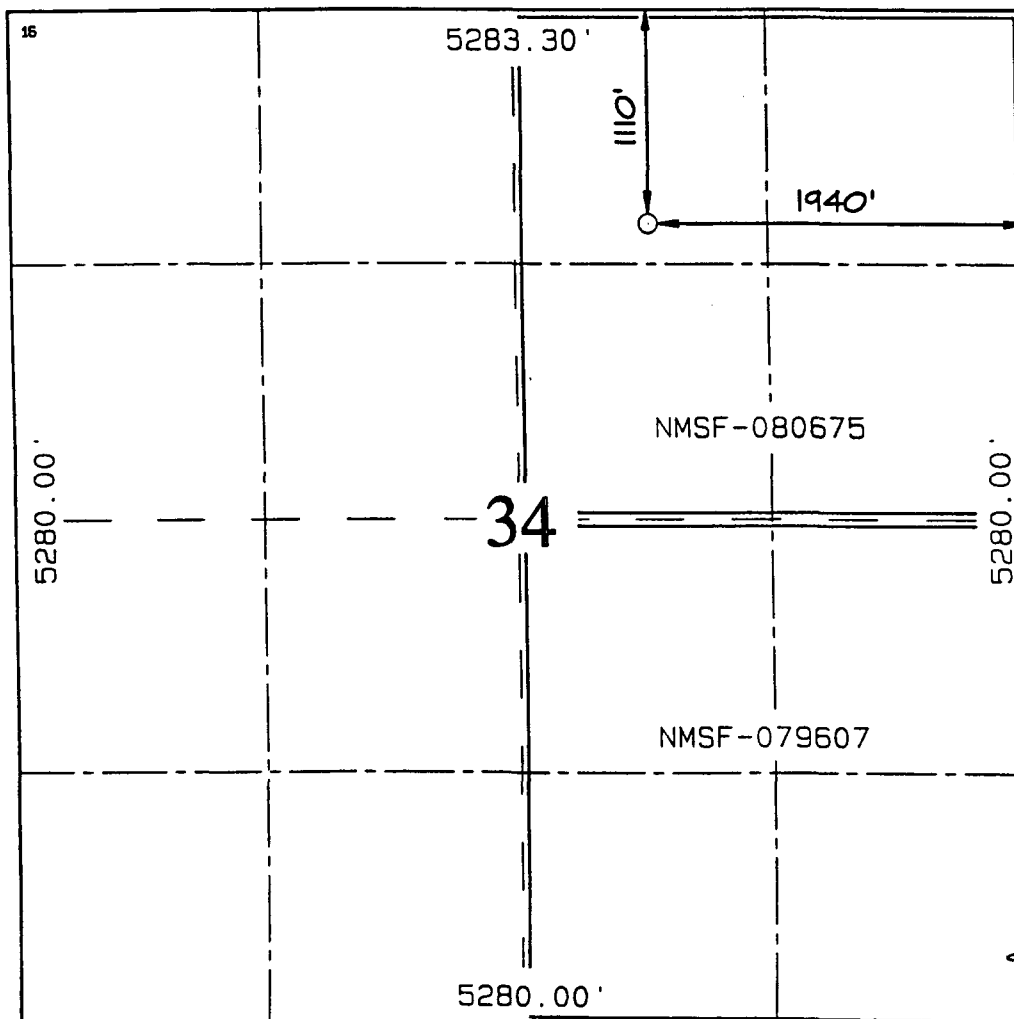
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	34	27N	4W		1110	NORTH	1940	EAST	RIO ARriba

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres E/320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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



<sup>17</sup> 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

<sup>18</sup> 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 9, 1999

Date of Survey  
Signature and Seal

NEALE C. EDWARDS  
NEW MEXICO  
6857  
Certificate 6857

***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

Mary Chappell  
PO Box 1865  
Corrales, NM 87048

x

Harco LTD Partnership  
PO Box 216  
Roswell, NM 88202-0216

***BURLINGTON  
RESOURCES***

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

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

James Harrington  
PO Box 13535  
Albuquerque, NM 87192

x

Tempe LTD Partnership  
652 Fearington Post  
Pittsboro, NC 27312

***BURLINGTON  
RESOURCES***

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

***BURLINGTON  
RESOURCES***

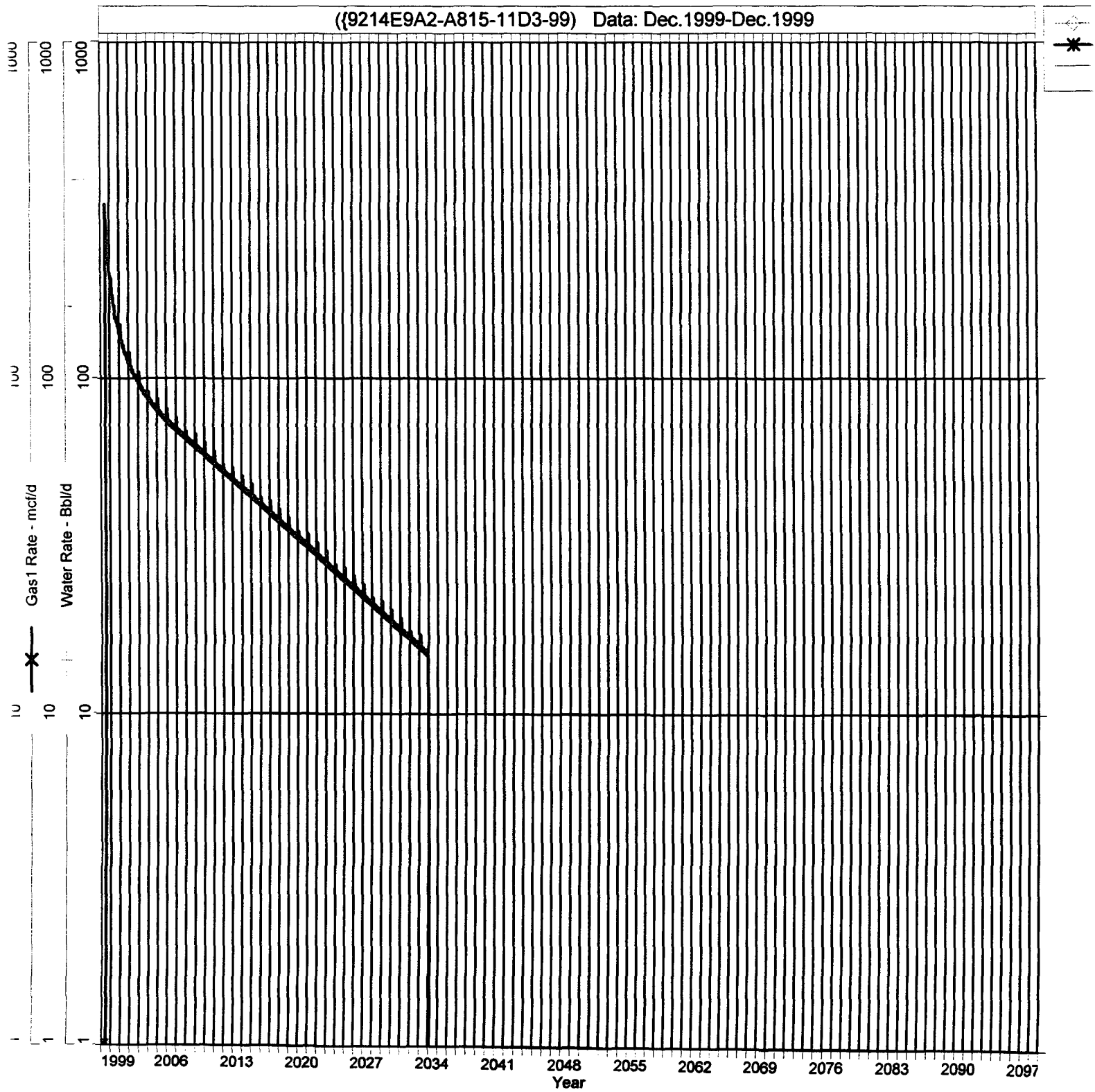
SAN JUAN DIVISION  
3535 East 30th Street: (87402-8801)  
P.O. BOX 4289  
Farmington, New Mexico 87499-4289

x

San Juan 27-4 Unit Com #34M

Expected Production

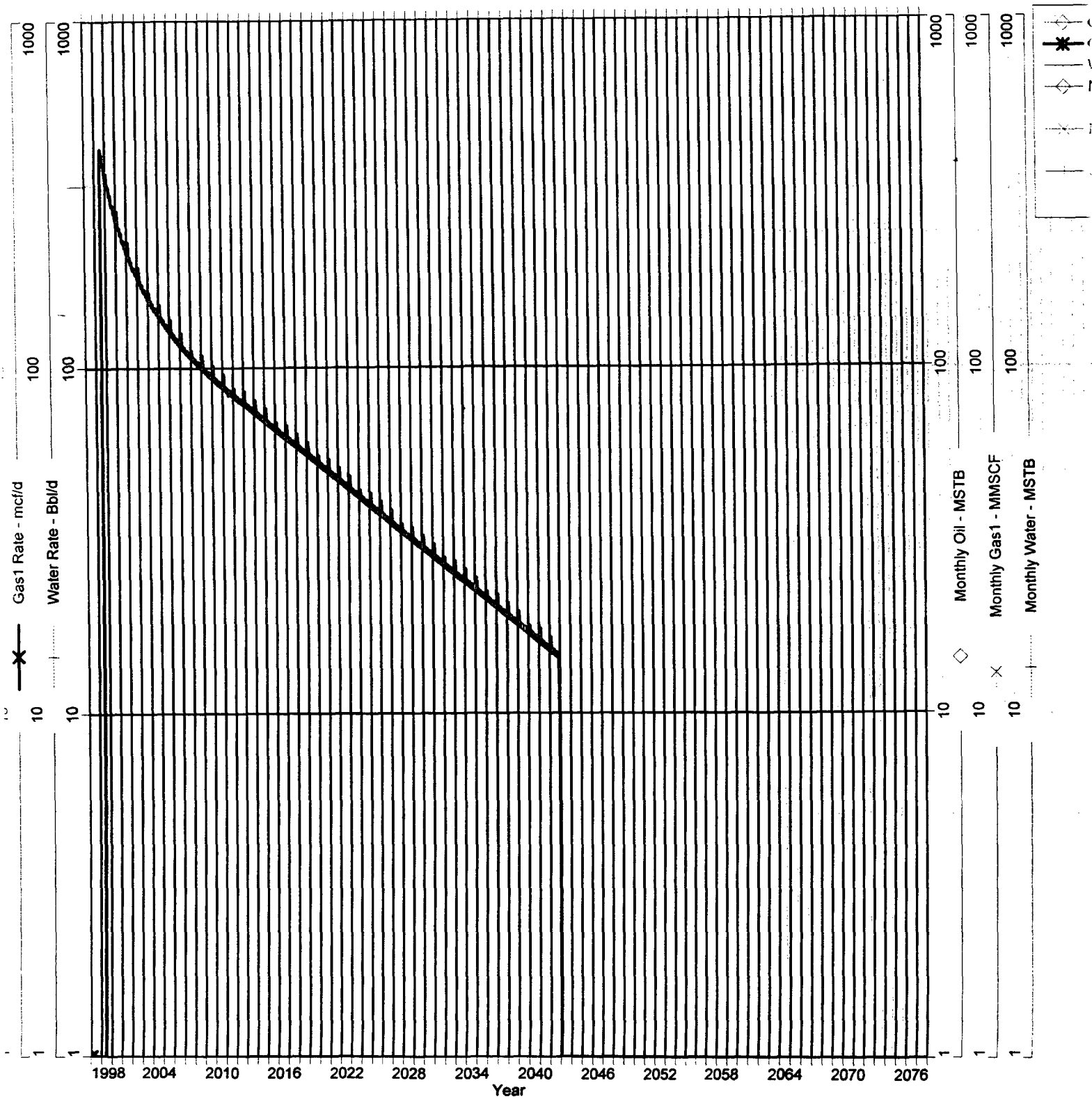
Mesaverde Formation



# San Juan 27-4 Unit Com #34M

Expected Production

Dakota Formation



# San Juan 27-4 Unit Com #34M

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	0.676	GAS GRAVITY	0.759
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.82	%N2	0.26
%CO2	0.65	%CO2	0.97
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	1.5
DEPTH (FT)	6624	DEPTH (FT)	8363
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	512	SURFACE PRESSURE (PSIA)	1009
BOTTOMHOLE PRESSURE (PSIA)	603.5	BOTTOMHOLE PRESSURE (PSIA)	1288.4
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.676	GAS GRAVITY	0.759
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.82	%N2	0.26
%CO2	0.65	%CO2	0.97
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	1.5
DEPTH (FT)	6624	DEPTH (FT)	8363
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1093	SURFACE PRESSURE (PSIA)	2264
BOTTOMHOLE PRESSURE (PSIA)	1310.2	BOTTOMHOLE PRESSURE (PSIA)	2951.9

Page No.: 1  
Print Time: Wed Dec 01 11:05:31 1999  
Property ID: 1186  
Property Name: SAN JUAN 27-4 UNIT | 132A | 54069A  
Table Name: R:\RESERVES\GDPNOS\TEST.DBF

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

08/02/85	0	1093.0
05/05/86	60194	736.0
07/29/87	249642	572.0
10/16/88	398191	562.0
11/15/89	434727	736.0
07/24/91	566653	585.0
08/20/91	577221	573.0
08/02/93	719246	512.0

San Juan 27-4 Unit Com #34M

Mesaverde Offset



Page No.: 1

Print Time: Wed Dec 01 10:52:29 1999

Property ID: 8

Property Name: SAN JUAN 27-4 UNIT | 69 | 44040A

Table Name: C:\CMNG\TEST.DBF

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

11/16/73	0	2264.0
01/23/76	58278	1032.0
06/25/76	85714	913.0
07/06/77	139433	832.0
09/02/80	254379	731.0
06/01/81	267161	691.0
06/04/85	331951	973.0
05/28/92	426194	1009.0

San Juan 27-4 Unit Com #34M

Dakota Offset

# San Juan 27-4 Unit Com #34M

Mesaverde / Dakota

27N - 4W - 34

