

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesa, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Artesa, 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
APPLICATION FOR DOWNHOLE COMMINGLING

APPROVAL PROCESS
___ Administrative ___ Hearing
EXISTING WELLBORE
___ YES ___ NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator

54M
Well No.

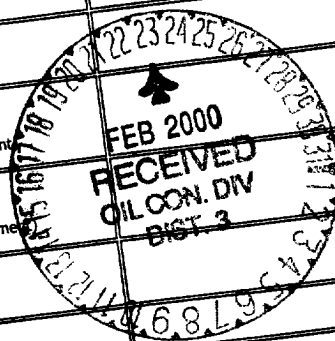
32-27N-04W
Unit Ltr. - Sec - Twp - Rge

RIO ARRIBA
County
Spacing Unit Lease Types: (check 1 or more)
Federal ___X___, State ___(and/or)___ Fee ___

SAN JUAN 27-4 UNIT
Lease

OGRID NO. 14538 Property Code 7452 API NO. 30-039-XXXX

	Upper Zone	Intermediate Zone	Lower Zone
The following facts are submitted in support of downhole commingling:			
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) 681 psi (see attachment) b. (Original) 1416 psi (see attachment)		a. (Current) 1113 psi (see attachment) b. (Original) 2984 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1236		BTU 1258
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 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. Yes ___X___ No ___
10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Yes ___X___ 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 ___ (If Yes, attach explanation)
13. Will the value of production be decreased by commingling? ___X___ Yes ___ No ___
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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-1
Revised February 21, 1991
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District II
PO Drawer 00, Artesia, NM 88211-0719

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

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7452	Property Name SAN JUAN 27-4 UNIT		Well Number 54M
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6960'

10 Surface Location

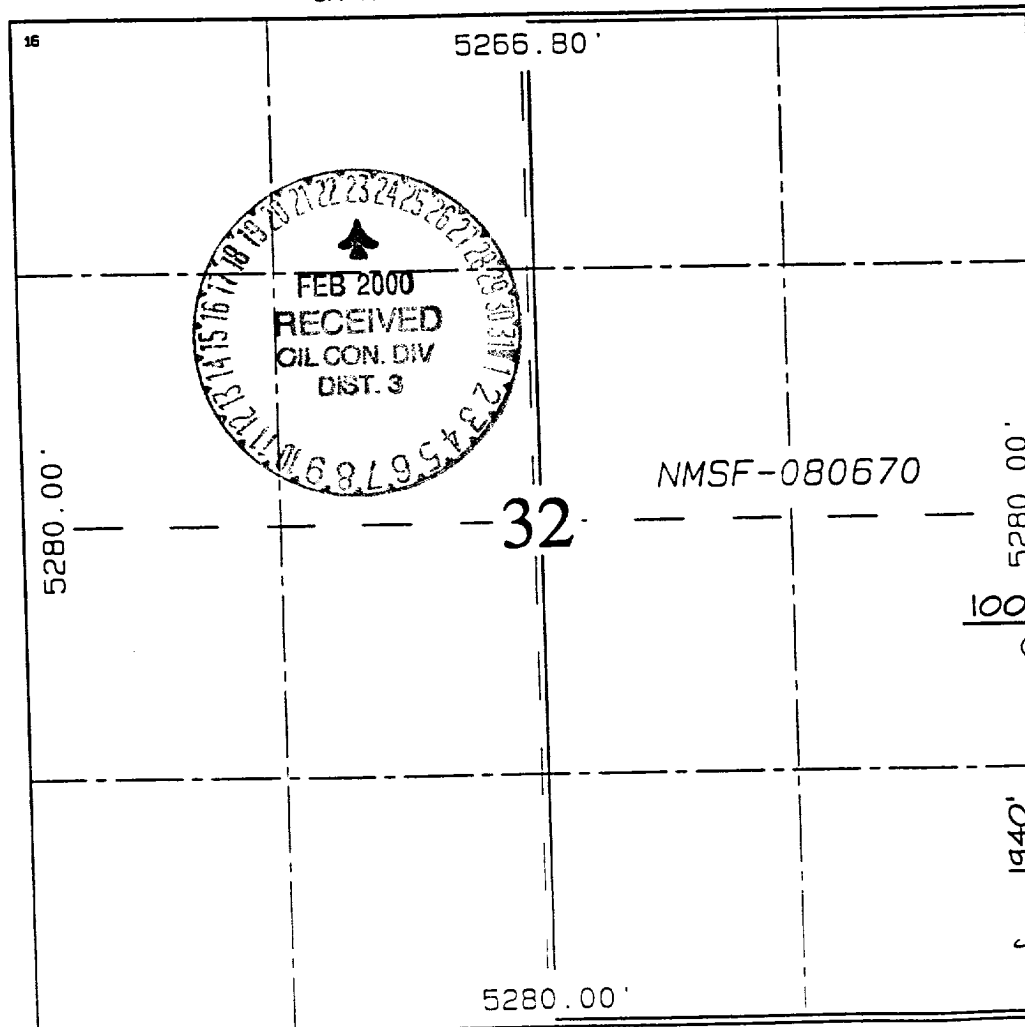
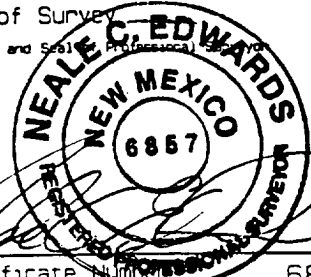
UL or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County
I	32	27N	4W		1940	SOUTH	100	EAST	RIO ARRIPIO

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1st	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres MV-E/320 DK-E/320	Joint or Infill	Consolidation Code	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 	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 or under my supervision, and that the same is true and correct to the best of my belief. DECEMBER 14, 1999 Date of Survey Signature and Seal  Certificate Number 685

***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

Mary Chappell
PO Box 1865
Corrales, NM 87048

x

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

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3535 East 30th Street: (87402-8801)
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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 Fearrington Post
Pittsboro, NC 27312

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3535 East 30th Street: (87402-8801)
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RESOURCES***

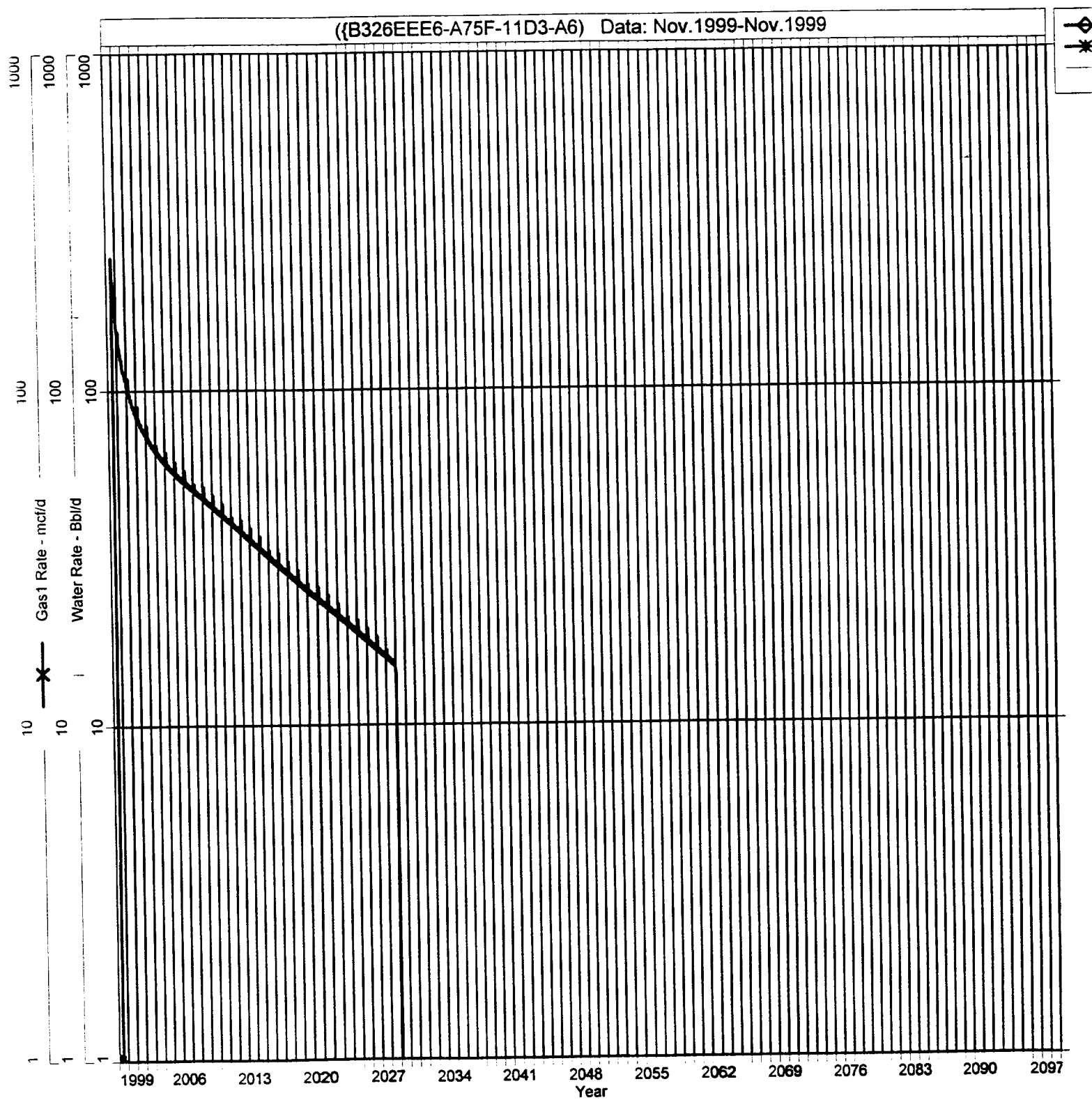
SAN JUAN DIVISION
3535 East 30th Street: (87402-8801)
P.O. BOX 4289
Farmington, New Mexico 87499-4289

x

San Juan 27-4 Unit #54M

Expected Production

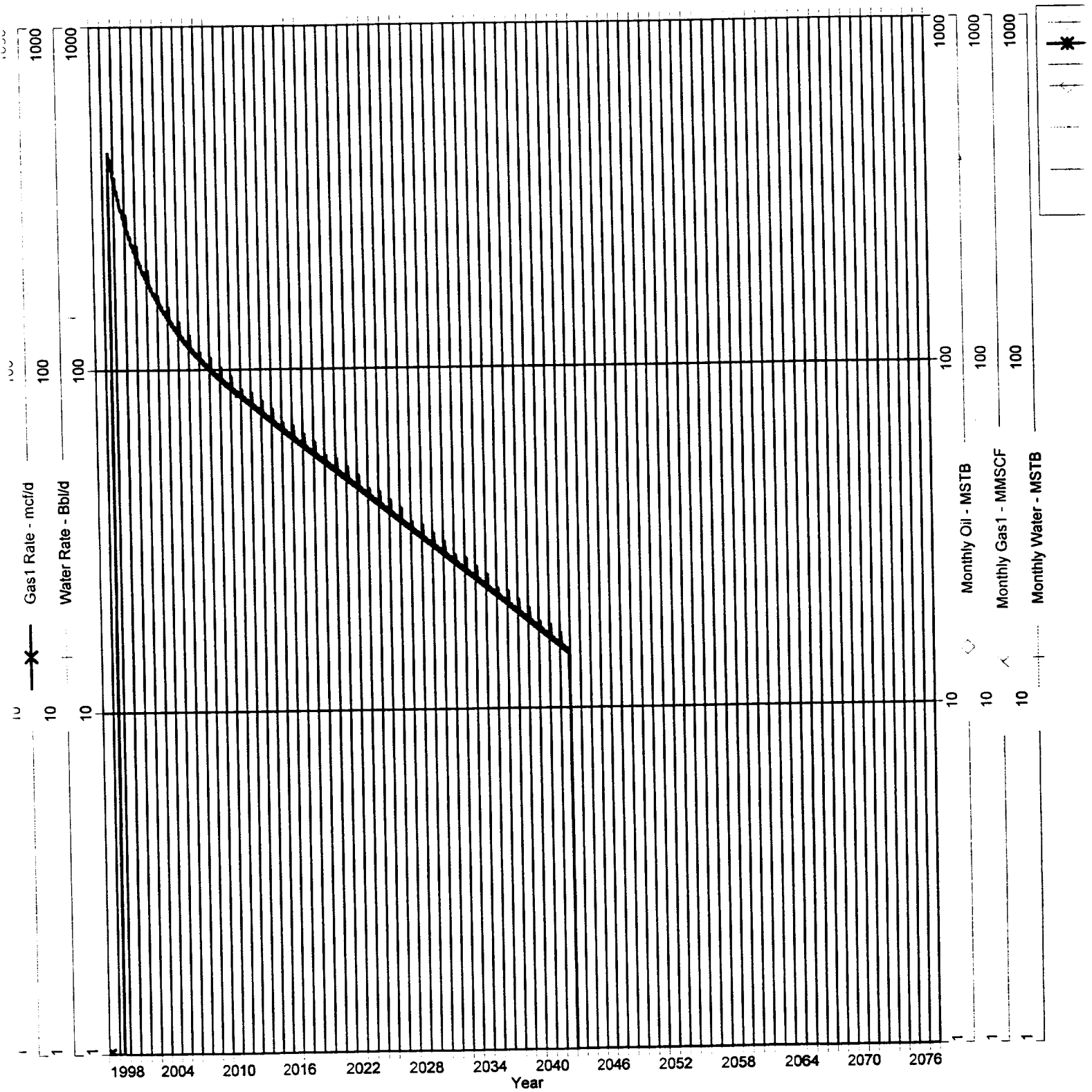
Mesaverde Formation



San Juan 27-4 Unit #54M

Expected Production

Dakota Formation



San Juan 27-4 Unit #54M

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	0.712	GAS GRAVITY	0.728
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.18	%N2	0.22
%CO2	0.82	%CO2	0.94
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6387	DEPTH (FT)	8163
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)	574	SURFACE PRESSURE (PSIA)	892
BOTTOMHOLE PRESSURE (PSIA)	680.8	BOTTOMHOLE PRESSURE (PSIA)	1112.7
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.712	GAS GRAVITY	0.714
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.18	%N2	0.19
%CO2	0.82	%CO2	1.04
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6387	DEPTH (FT)	7934
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)	1170	SURFACE PRESSURE (PSIA)	2372
BOTTOMHOLE PRESSURE (PSIA)	1415.8	BOTTOMHOLE PRESSURE (PSIA)	2984.2

Page No.: 2
 Print Time: Tue Nov 30 13:00:12 1999
 Property ID: 1193
 Property Name: SAN JUAN 27-4 UNIT | 136 | 44664A
 Table Name: R:\RESERVES\GDPNOS\TEST.DBF

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

01/07/80	0	1170.0
01/14/80	0	1171.0
07/07/80	36010	831.0
11/05/81	112702	691.0
11/05/82	166527	670.0
05/18/84	204737	724.0
11/03/86	284668	602.0
09/11/89	382599	603.0
09/18/91	412088	797.0
11/18/91	419946	785.0
07/30/93	468534	574.0

San Juan 27-4 Unit #54M

Mesaverde Offset

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Print Time: Tue Nov 30 13:00:12 1999
Property ID: 1267
Property Name: SAN JUAN 27-4 UNIT | 54 | 51794A
Table Name: R:\RESERVES\GDPNOS\TEST.DBF
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10/16/68	0	2372.0
06/13/69	30546	1405.0
06/24/70	107646	1040.0
05/18/71	159044	921.0
06/13/72	216124	812.0
07/06/77	396984	822.0
05/01/79	461922	821.0
06/01/81	526538	723.0
05/20/85	605428	972.0
04/22/90	726234	983.0
06/15/93	801881	892.0

Dakota Offset

Mesaverde / Dakota

