

DISTRICT I
1525 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Artesia, 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

Form C-107-A
Revised August 1999

APPROVAL PROCESS:

☐ Administrative ☐ Hearing

EXISTING WELLBORE

☐ YES ☒ NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator

Address

SAN JUAN 27-4 UNIT
Lease

16M
Well No.

17-27N-04W

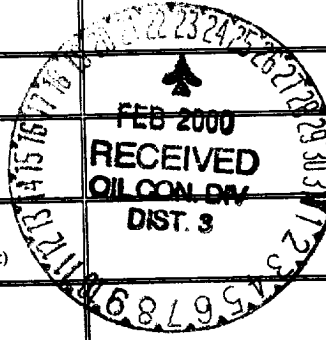
Unit Ltr. - Sec - Twp - Rge

RIO ARRIBA

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7452 API NO. 30-039-XXXXX Federal ☒ 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) 515 psi (see attachment) b. (Original) 1324 psi (see attachment)		a. (Current) 1087 psi (see attachment) b. (Original) 2263 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1196		BTU 1147
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.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No

11. Will cross-flow occur? ☒ 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. ☒ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ 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. ☒ Yes ☐ No

15. NMOC 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 30-039-	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 16M
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	⁹ Elevation 6804'

¹⁰ Surface Location

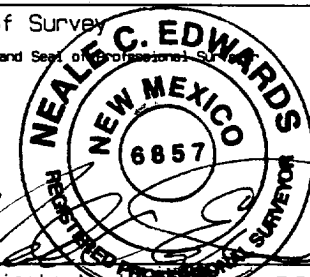
UL or lot no. F	Section 17	Township 27N	Range 4W	Lot Idn	Feet from the 2545	North/South line NORTH	Feet from the 2255	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres MV-W/320 DK-W/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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 USA SF-080669 2255' 5256.24' 2545' 5280.00' FEE 5260.20' FEB 2000 RECEIVED OILCON DIV DIST 3	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. NOVEMBER 17, 1999 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number 6857
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***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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3535 East 30th Street: (87402-8801)
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Farmington, New Mexico 87499-4289

James Harrington
PO Box 13535
Albuquerque, NM 87192

x

Tempe LTD Partnership
652 Fearington Post
Pittsboro, NC 27312

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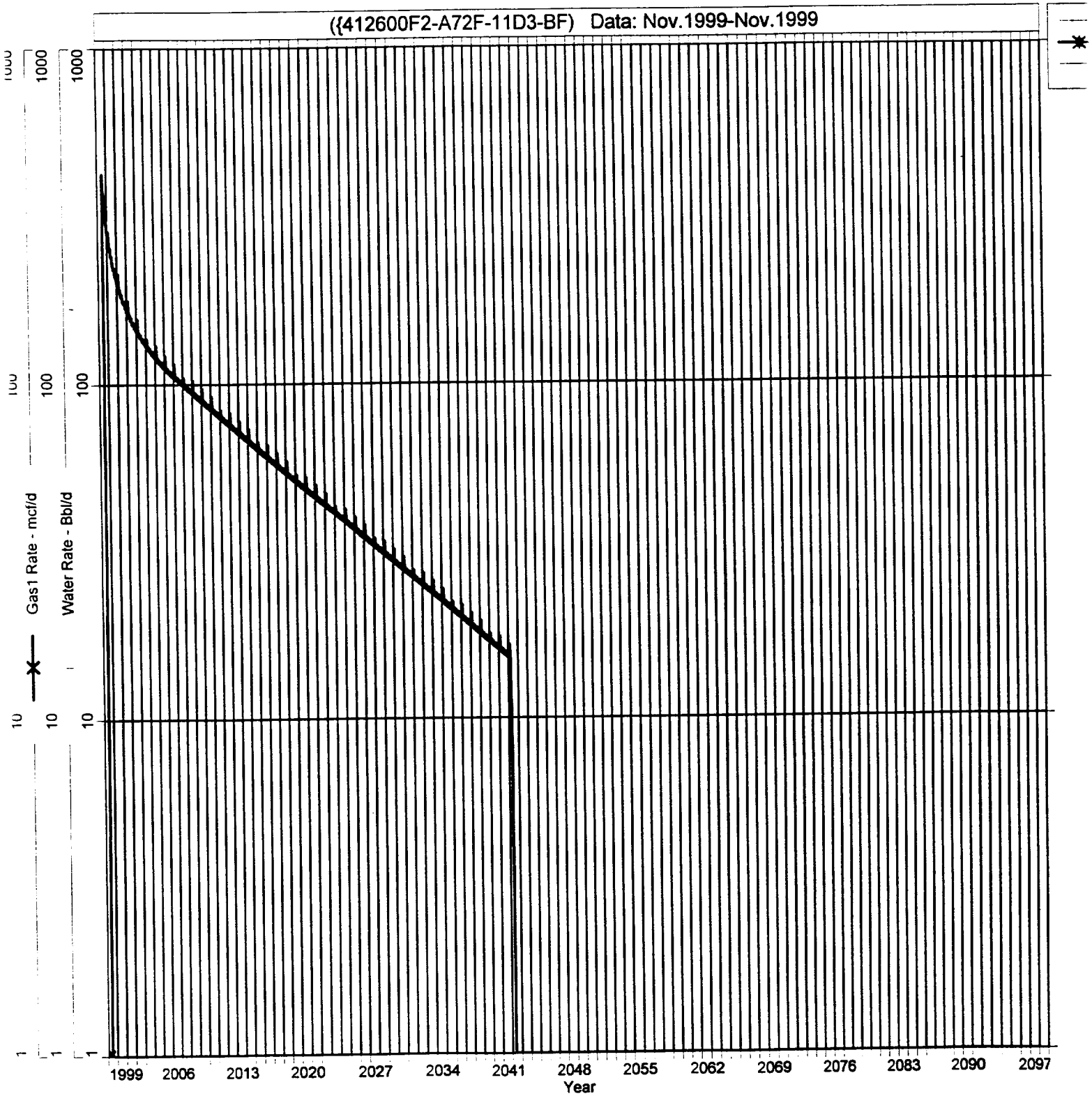
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San Juan 27-4 Unit #16M

Expected Production

Mesaverde Formation

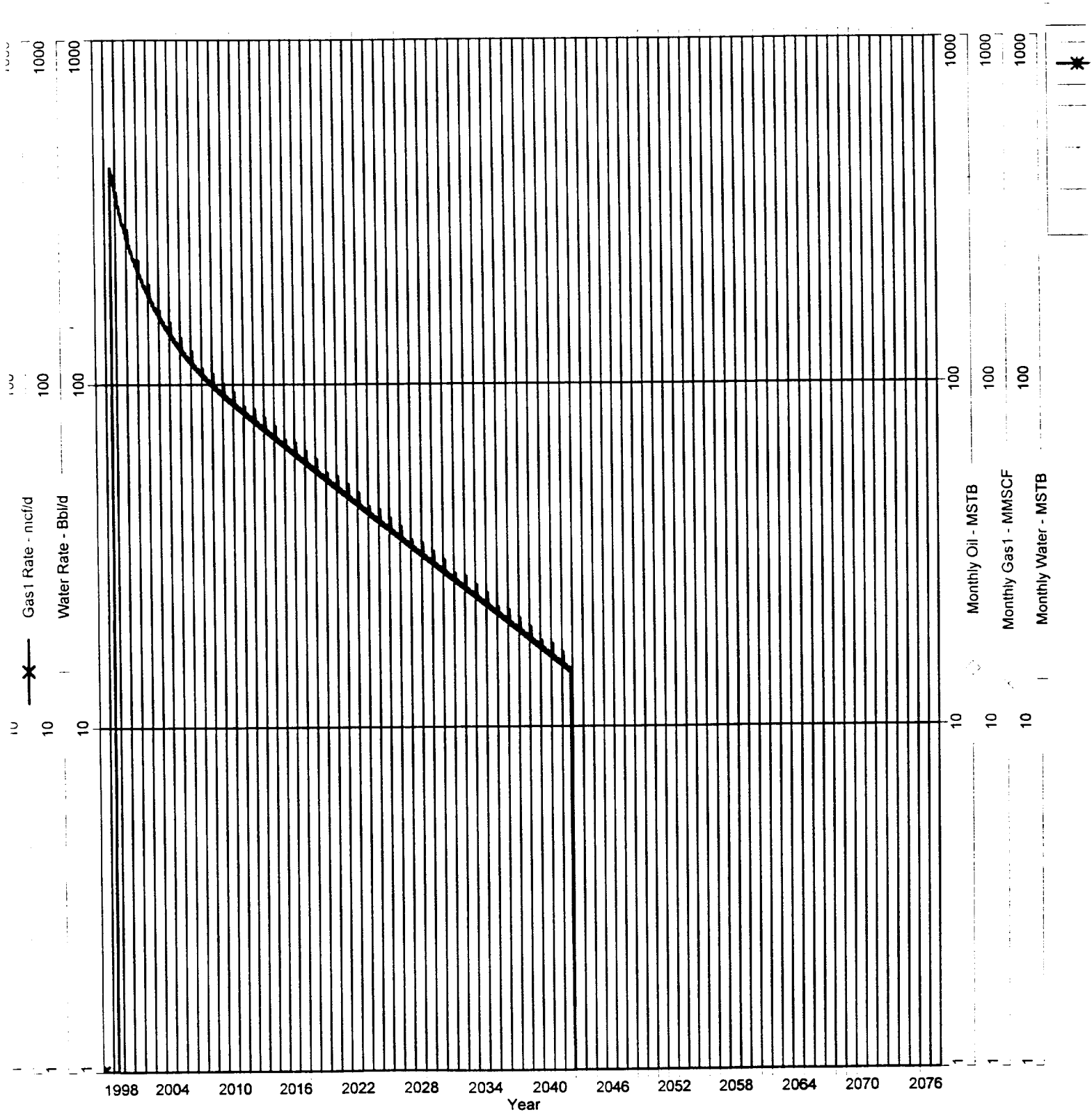
(412600F2-A72F-11D3-BF) Data: Nov.1999-Nov.1999



San Juan 27-4 Unit #16M

Expected Production

Dakota Formation



San Juan 27-4 Unit #16M

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 0.688	GAS GRAVITY 0.662
COND. OR MISC. (C/M) C	COND. OR MISC. (C/M) C
%N2 0.13	%N2 0.14
%CO2 0.92	%CO2 1.31
%H2S 0	%H2S 0
DIAMETER (IN) 2.375	DIAMETER (IN) 2
DEPTH (FT) 6126	DEPTH (FT) 8011
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) 442	SURFACE PRESSURE (PSIA) 897
BOTTOMHOLE PRESSURE (PSIA) 515.2	BOTTOMHOLE PRESSURE (PSIA) 1087.1
<u>MV-Original</u>	<u>DK-Original</u>
GAS GRAVITY 0.688	GAS GRAVITY 0.662
COND. OR MISC. (C/M) C	COND. OR MISC. (C/M) C
%N2 0.13	%N2 0.14
%CO2 0.92	%CO2 1.31
%H2S 0	%H2S 0
DIAMETER (IN) 2.375	DIAMETER (IN) 2
DEPTH (FT) 6126	DEPTH (FT) 8011
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) 1114	SURFACE PRESSURE (PSIA) 1837
BOTTOMHOLE PRESSURE (PSIA) 1323.5	BOTTOMHOLE PRESSURE (PSIA) 2262.5

Page No.: 1
 Print Time: Tue Nov 30 07:15:50 1999
 Property ID: 1190
 Property Name: SAN JUAN 27-4 UNIT | 134 | 53341A
 Table Name: R:\RESERVES\GDPNOS\TEST.DBF

--DATE--	---CUM_GAS--	M SIWHP
.....	Mcf.....	Psi.....

10/27/79	0	1114.0
07/24/80	8416	846.0
08/09/80	29422	0.0
11/03/80	68831	722.0
06/02/81	99565	672.0
11/01/82	214976	595.0
09/22/83	261335	631.0
06/21/84	311595	569.0
06/09/87	464404	413.0
04/15/89	559185	792.0
01/24/91	653432	517.0
03/07/91	657696	529.0
05/03/93	774239	442.0

San Juan 27-4 Unit #16M

Mesaverde Offset

Page No.: 1
 Print Time: Tue Nov 30 07:15:29 1999
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 Property Name: SAN JUAN 27-4 UNIT | 7 | 49580A
 Table Name: R:\RESERVES\GDPNOS\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
 :::::McF:::::Psi:::

06/26/56	0	1837.0	<u>San Juan 27-4 Unit #16M</u>
08/02/56	0	1836.0	Dakota Offset
06/14/59	85000	1242.0	
09/22/60	116000	1244.0	
06/13/61	138000	1186.0	
07/31/62	188000	1038.0	
01/07/63	207000	1078.0	
01/02/64	244000	1091.0	
07/29/65	312000	998.0	
08/01/66	354000	693.0	
08/04/67	398000	936.0	
09/23/68	448000	944.0	
06/09/70	521759	710.0	
07/30/71	565772	711.0	
05/30/72	595584	929.0	
06/09/75	712411	912.0	
08/01/77	807884	887.0	
10/15/79	890610	879.0	
11/02/81	957297	897.0	
09/22/83	993331	970.0	
01/06/86	1049929	897.0	

