

DATE IN 12/15/99	SUSPENSE 1/4/00	ENGINEER DC	LOGGED MN	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

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] 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

Print or Type Name

Signature

Regulatory/Compliance Administrator

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

SCHUMACHER

11M

O 18-30N-10W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7491 API NO. 30-039-XXXX 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: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated Or Measured Original	a. (Current) 419 psi (see attachment) b. (Original) 1200 psi (see attachment)		a. (Current) 892 psi (see attachment) b. (Original) 2442 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1195		BTU 1089
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	Date: N/A Rates:	Date: N/A Rates:	Date: N/A Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)			
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

Dan T. Voeks

TITLE

PRODUCTION ENGINEER

DATE:

12/10/99

TYPE OR PRINT NAME DAN T. VOECKS

TELEPHONE NO. 505-326-9700

DISTRICT I
P.O. Box 1980, Hobbs, N.M. 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, N.M. 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

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

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

P.O. 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 30-045-	² Pool Code 72319/71599	³ Pool Name Blanco Mesaverde/Basin Dakota
⁴ Property Code 7491	⁵ Property Name SCHUMACHER	⁶ Well Number 11M
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	⁹ Elevation 6394'

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
0	18	30-N	10-W		945	SOUTH	1800	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

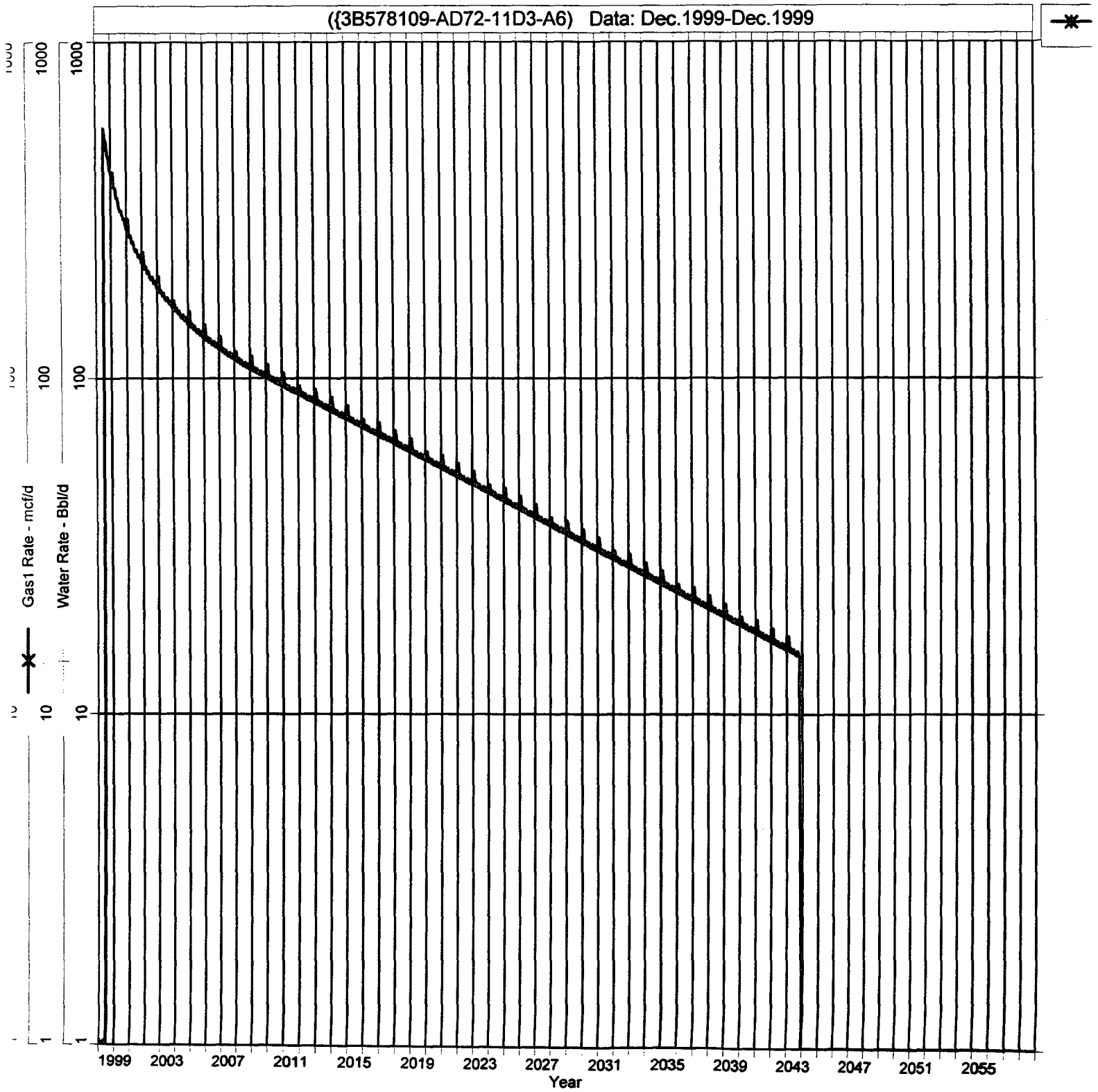
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres MV:E/320;	¹³ Joint or Infill DK:S/316.50	¹⁴ Consolidation Code	¹⁵ Order No.
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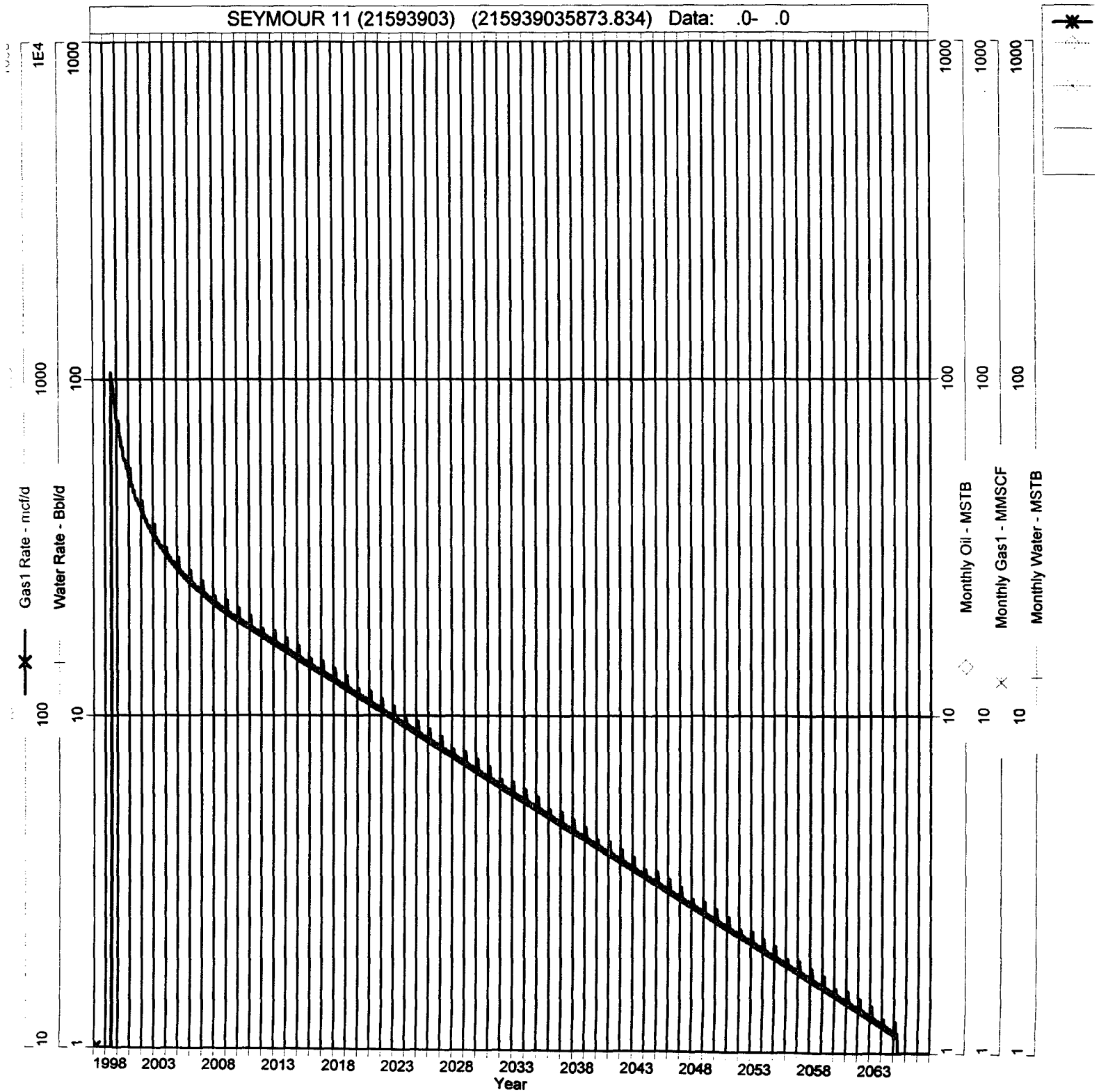
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<div>16</div> <div></div>	<div>17 OPERATOR CERTIFICATION</div> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p>Signature _____ Peggy Cole Printed Name Regulatory Administrator Title _____</p> <p>Date _____</p>
<div>18</div> <div><p>FD. 1967 B.L.M. BC.</p><p>SF-077764</p><p>LAT. = 36° 48.4' N. LONG. = 107° 55.9' W.</p><p>1800'</p><p>945'</p><p>N 89-20-02 W</p><p>2590.20' (M)</p><p>FD. 1967 B.L.M. BC.</p></div>	<div>18 SURVEYOR CERTIFICATION</div> <p>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.</p> <p>Date of Survey _____</p> <p>Signature _____ Seal of Professional Surveyor _____</p> <p>ROY A. RUSH NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR 8894</p> <p>8894</p> <p>Certificate Number _____</p>

Schumacher #11M
Expected Production
Mesaverde Formation



Schumacher #11M
Expected Production
Dakota Formation



Schumacher #11M

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 0.685	GAS GRAVITY 0.636
COND. OR MISC. (C/M) C	COND. OR MISC. (C/M) C
%N2 0.21	%N2 0.16
%CO2 0.74	%CO2 1.96
%H2S 0	%H2S 0
DIAMETER (IN) 2.375	DIAMETER (IN) 2.375
DEPTH (FT) 5160	DEPTH (FT) 7277
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) 369	SURFACE PRESSURE (PSIA) 758
BOTTOMHOLE PRESSURE (PSIA) 418.8	BOTTOMHOLE PRESSURE (PSIA) 892.2
<u>MV-Original</u>	<u>DK-Original</u>
GAS GRAVITY 0.685	GAS GRAVITY 0.636
COND. OR MISC. (C/M) C	COND. OR MISC. (C/M) C
%N2 0.21	%N2 0.16
%CO2 0.74	%CO2 1.96
%H2S 0	%H2S 0
DIAMETER (IN) 2.375	DIAMETER (IN) 2.375
DEPTH (FT) 5160	DEPTH (FT) 7277
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) 1041	SURFACE PRESSURE (PSIA) 2042
BOTTOMHOLE PRESSURE (PSIA) 1200.3	BOTTOMHOLE PRESSURE (PSIA) 2442.3

Schumacher #11M

Mesaverde Offset

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
SCHUMACHER 10	11/11/53	1,041
SCHUMACHER 10	03/03/54	936
SCHUMACHER 10	04/24/54	885
SCHUMACHER 10	06/15/55	848
SCHUMACHER 10	04/23/56	746
SCHUMACHER 10	07/22/57	749
SCHUMACHER 10	04/27/58	728
SCHUMACHER 10	03/22/59	675
SCHUMACHER 10	03/22/60	653
SCHUMACHER 10	03/21/61	639
SCHUMACHER 10	04/09/62	720
SCHUMACHER 10	04/05/63	701
SCHUMACHER 10	04/06/64	721
SCHUMACHER 10	10/18/65	741
SCHUMACHER 10	03/11/66	571
SCHUMACHER 10	03/22/67	660
SCHUMACHER 10	08/15/68	642
SCHUMACHER 10	06/02/70	664
SCHUMACHER 10	03/06/74	650
SCHUMACHER 10	05/22/72	596
SCHUMACHER 10	04/30/74	678
SCHUMACHER 10	09/08/76	642
SCHUMACHER 10	05/01/78	591
SCHUMACHER 10	06/16/80	520
SCHUMACHER 10	12/17/85	551
SCHUMACHER 10	04/17/89	494
SCHUMACHER 10	01/08/91	513
SCHUMACHER 10	05/20/91	501
SCHUMACHER 10	04/15/93	357
SCHUMACHER 10	04/20/93	369

Schumacher #11M

Dakota Offset

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
SCHUMACHER 11	04/05/61	2,042
SCHUMACHER 11	04/25/61	2,039
SCHUMACHER 11	02/12/62	1,397
SCHUMACHER 11	04/09/62	1,269
SCHUMACHER 11	04/12/63	1,086
SCHUMACHER 11	04/06/64	879
SCHUMACHER 11	04/01/65	776
SCHUMACHER 11	03/11/66	814
SCHUMACHER 11	03/22/67	798
SCHUMACHER 11	03/08/68	744
SCHUMACHER 11	06/02/70	751
SCHUMACHER 11	03/26/71	707
SCHUMACHER 11	05/22/72	659
SCHUMACHER 11	04/29/75	627
SCHUMACHER 11	09/02/88	850
SCHUMACHER 11	06/10/92	1,010
SCHUMACHER 11	09/27/93	758

30N – 10W – 18

