

2648

DATE IN 2/4/00	SUSPENSE 2/24/00	ENGINEER DC	LOGGED KV	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]

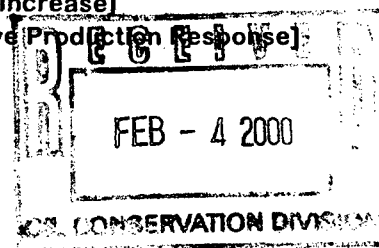
[A] Location - Spacing Unit - Directional Drilling
NSL NSP DD SD

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] 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

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

SUNRAY F

1M

26-30N-10W

RIO ARRIBA

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7568 API NO. 30-045XXXXX 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) 567 psi (see attachment) b. (Original) 1258 psi (see attachment)		a. (Current) 773 psi (see attachment) b. (Original) 2413 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 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)	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? ___X_ Yes ___ 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

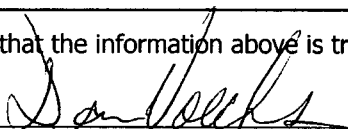
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).

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



TITLE PRODUCTION ENGINEER

DATE:

01-27-00

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 7568	⁵ Property Name SUNRAY F	⁶ Well Number 1M
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	⁹ Elevation 6275'

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
A	26	30-N	10-W		860	NORTH	1190	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 E/317.22					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.

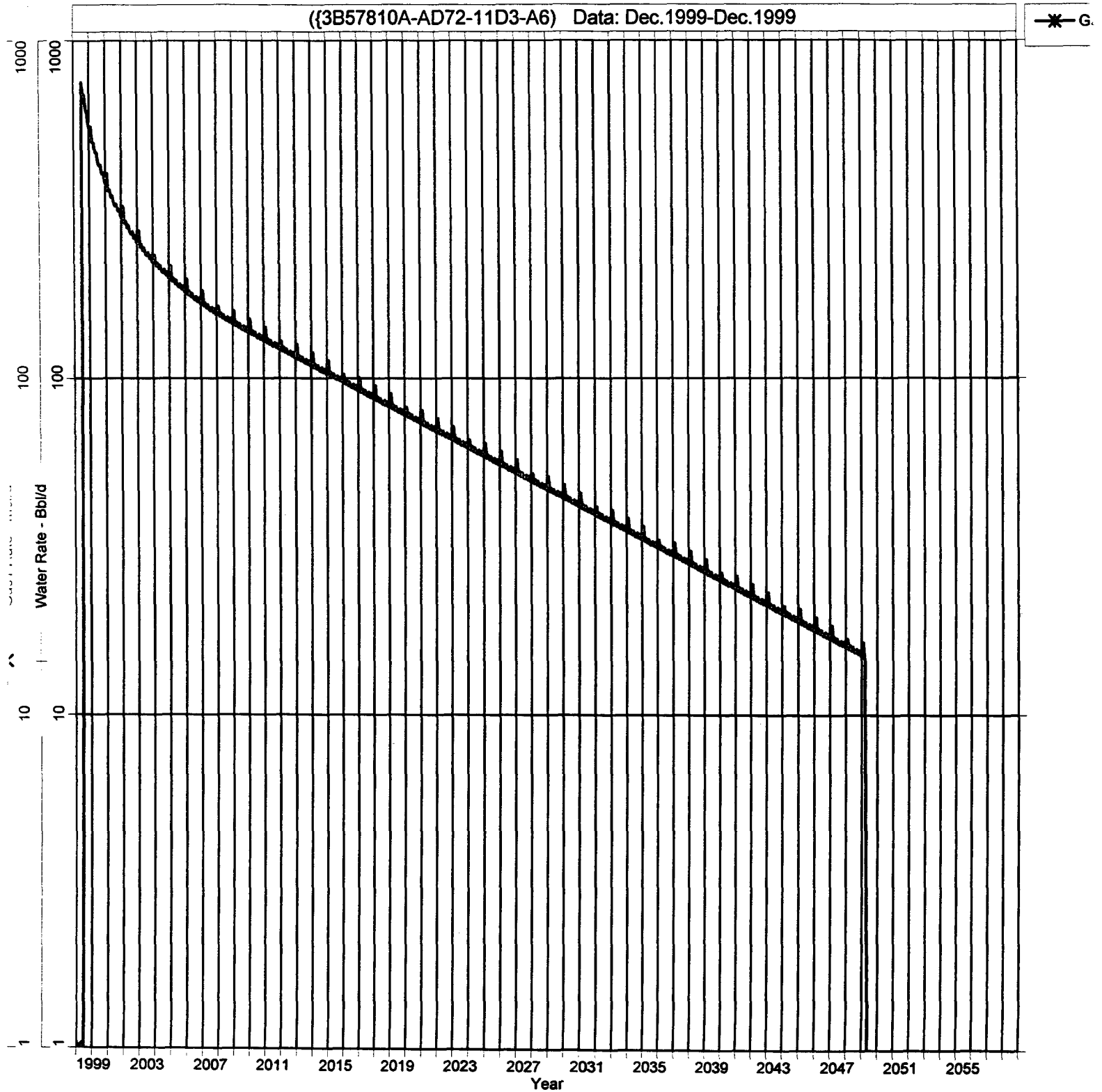
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	LOT 4	FD. B.L.M. BC. 1967	LOT 3	S 89-58-43 W 2622.05' (M)	FD. B.L.M. BC. 1967	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 _____
	LOT 5	LOT 6	LOT 7 SF-080751-A	LOT 8 S 0-30-03 W 2642.41'			
26	LOT 12	LOT 11	LOT 10 SF-080750	LOT 9	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. 11-15-89 Date of Survey _____ Signature of Registered Professional Surveyor _____ 8894 Certificate Number _____	
	LOT 13		LOT 14	LOT 15			LOT 16

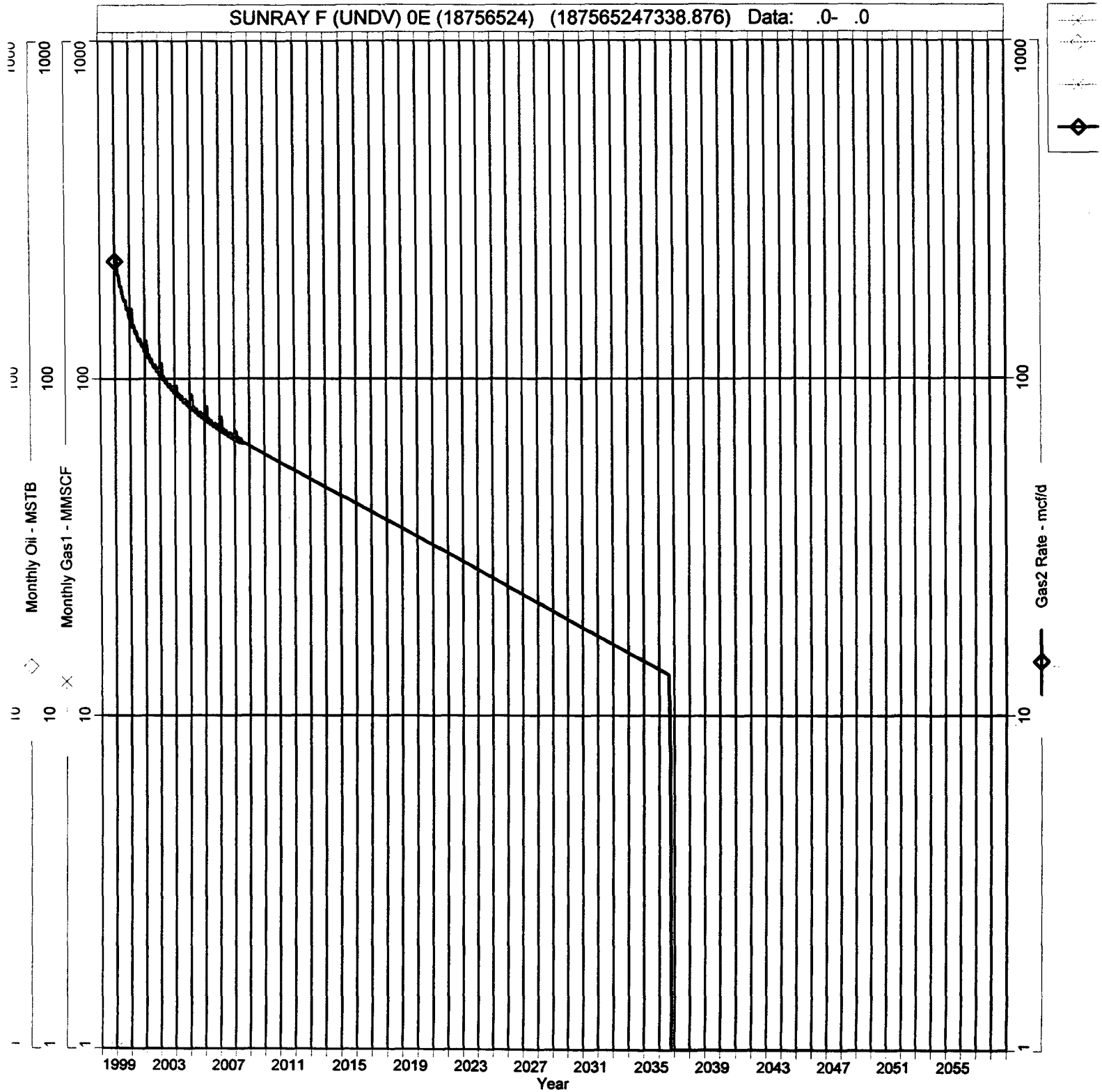
Sunray F 1M - Commingle List
1-20-00

ANNA CELIA HOWELL HILTON
BARBARA N KOONS TRUSTEE
BEN HOWELL LANGFORD
BENJAMIN JOSEPH MANSFIELD
CHASE BANK OF TEXAS NA TRUSTEE
ELIZABETH H LUND TRUSTEE
EMILIE M HARDIE ROYALTY TRUST
EMILY D GRAMBLING
FIRST SECURITY BANK OF NM
GORDON L GOTTSTEIN
GREGORY L KELLY TRUSTEE
JANE BARBARA BAER TRUST
JANE HARDIE TRUSTEE
JAY GOTTSTEIN TRUSTEE
JOHN A GRAMBLING
JOSEPH C JASTRZEMBSKI
MABELLE BRAMHALL TRUSTEE
MINERALS MANAGEMENT SERVICE
OLIVE C GERLACH LIFE ESTATE
PATRICIA G HARVEY
R H FEUILLE
RICHARD PARKER LANGFORD
RUTH DEMEREE
SANDIA LABORATORY FED CREDIT
THORNTON HARDIE III TRUSTEE
Conoco Inc.

Sunray F #1M
Expected Production
Mesaverde Formation



Sunray F #1M
Expected Production
Dakota Formation



Sunray F #1M
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	<u>0.708</u>	GAS GRAVITY	<u>0.628</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.29</u>	%N2	<u>0.24</u>
%CO2	<u>0.72</u>	%CO2	<u>1.96</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>2.375</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>5413</u>	DEPTH (FT)	<u>6992</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>137</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>198</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>492</u>	SURFACE PRESSURE (PSIA)	<u>664</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>566.6</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>773.4</u>
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	<u>0.708</u>	GAS GRAVITY	<u>0.628</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.29</u>	%N2	<u>0.24</u>
%CO2	<u>0.72</u>	%CO2	<u>1.96</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
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DEPTH (FT)	<u>5413</u>	DEPTH (FT)	<u>6992</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>137</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>198</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1075</u>	SURFACE PRESSURE (PSIA)	<u>2038</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1258.1</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>2413.0</u>

Sunray F #1M
Mesaverde Offset

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
SUNRAY F 1	01/07/54	1,075
SUNRAY F 1	02/15/54	1,074
SUNRAY F 1	08/07/54	732
SUNRAY F 1	04/15/55	905
SUNRAY F 1	07/23/56	845
SUNRAY F 1	08/07/57	831
SUNRAY F 1	05/06/58	828
SUNRAY F 1	04/14/59	831
SUNRAY F 1	04/14/60	815
SUNRAY F 1	04/13/61	818
SUNRAY F 1	07/04/62	813
SUNRAY F 1	05/21/63	804
SUNRAY F 1	05/15/64	812
SUNRAY F 1	05/18/65	776
SUNRAY F 1	04/19/66	755
SUNRAY F 1	05/16/67	724
SUNRAY F 1	04/24/68	702
SUNRAY F 1	08/01/69	675
SUNRAY F 1	04/22/70	662
SUNRAY F 1	05/27/71	560
SUNRAY F 1	03/30/72	780
SUNRAY F 1	05/03/73	580
SUNRAY F 1	05/03/74	567
SUNRAY F 1	06/13/74	587
SUNRAY F 1	02/23/76	614
SUNRAY F 1	06/26/76	596
SUNRAY F 1	04/24/78	543
SUNRAY F 1	05/07/80	568
SUNRAY F 1	05/18/81	553
SUNRAY F 1	05/10/82	528
SUNRAY F 1	07/02/82	482
SUNRAY F 1	04/17/84	550
SUNRAY F 1	04/01/86	523
SUNRAY F 1	04/07/89	470
SUNRAY F 1	04/15/91	479
SUNRAY F 1	07/08/91	491
SUNRAY F 1	08/16/93	492

Sunray F #1M
Dakota Offset

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
GRENIER A 4	04/10/64	2,038
GRENIER A 4	09/28/70	762
GRENIER A 4	07/25/71	665
GRENIER A 4	06/18/72	585
GRENIER A 4	05/02/73	848
GRENIER A 4	08/02/75	688
GRENIER A 4	05/17/77	626
GRENIER A 4	07/02/79	646
GRENIER A 4	06/24/81	633
GRENIER A 4	05/24/83	799
GRENIER A 4	04/10/85	710
GRENIER A 4	01/13/88	702
GRENIER A 4	06/08/90	642
GRENIER A 4	07/15/93	664

30N – 10W – 26

