

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

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

RIO ARRIBA

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7568 API NO. 30-045XXXX 30/23 Federal ___X___ State ___ (and/or) Fee ___

The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone BLANCO MESAVERDE - 72319	Intermediate Zone	Lower Zone 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) 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) * 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)	NO Date: N/A Rates: Date: N/A Rates:		YES 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
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, NM 87504-2088

☐ 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

18	FD. B.L.M. BC. 1967	LOT 4	LOT 3	S 89-58-43 W 2622.05' (M) LAT. = 36° 47.3' N. LONG. 107° 50.9' W. LOT 2	FD. B.L.M. BC. 1967
LOT 5	LOT 6	LOT 7	LOT 8	SF-080751-A	FD. B.L.M. BC. 1967
LOT 12	LOT 11	LOT 10	LOT 9	SF-080750	
LOT 13	LOT 14	LOT 15	LOT 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 by me or under my supervision, and that the same is true and correct to the best of my belief

Date of Survey

Signature of Professional Surveyor

8894

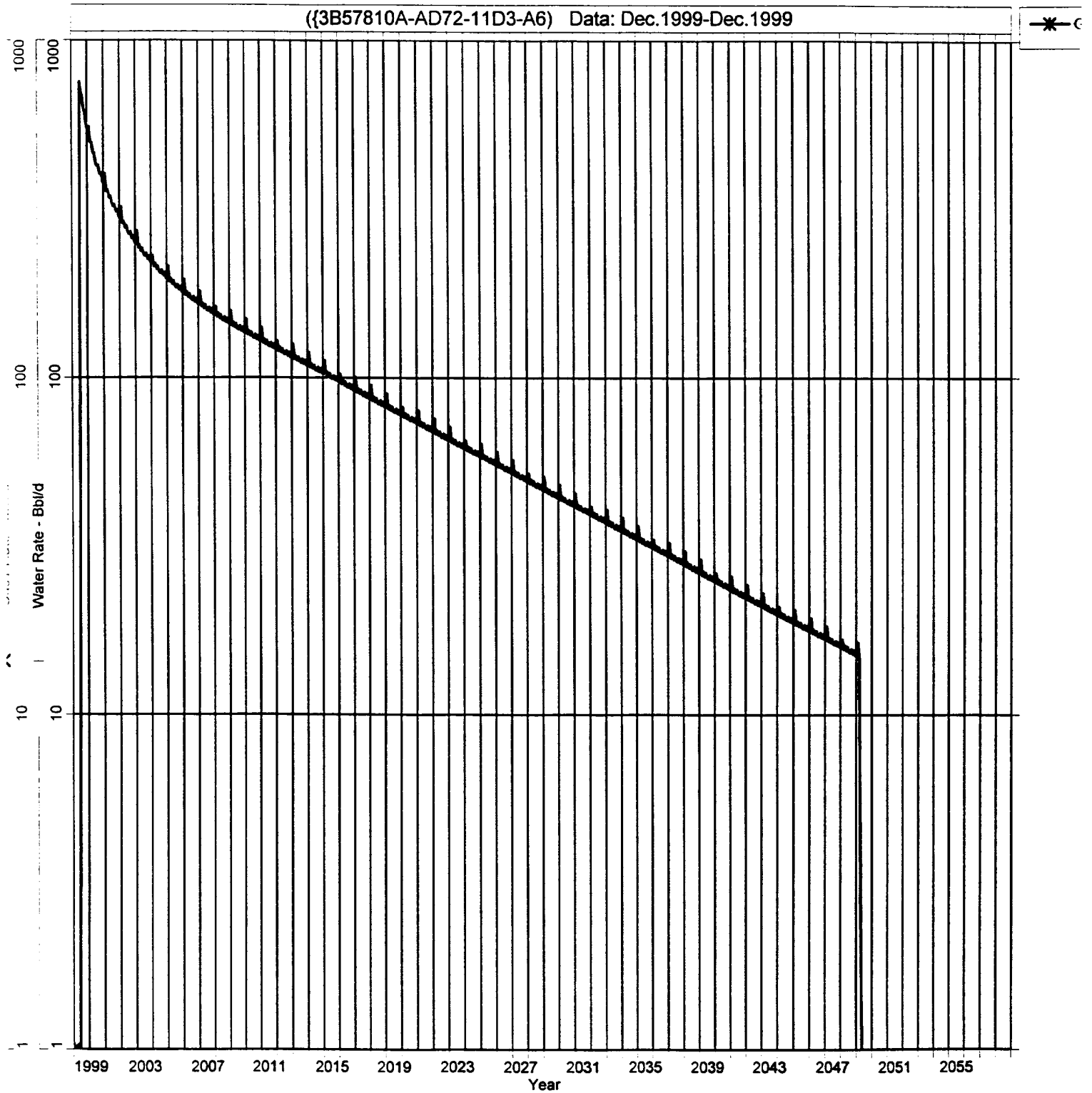
8894

Certificate Number

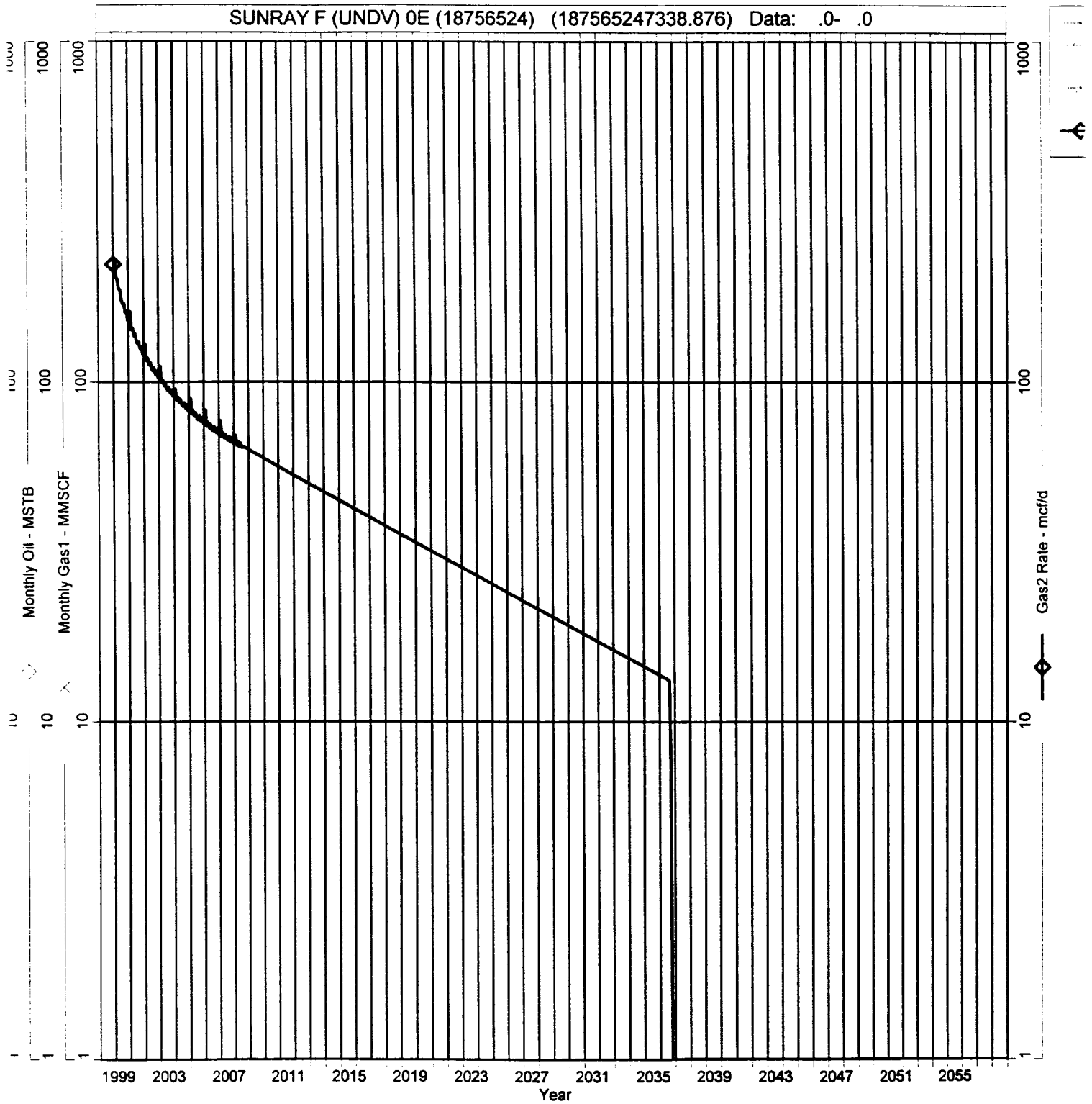
Sunray F 1M – Commingle List
1-20-00

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>
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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

