

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil and Gas

Operator

Sunray G

#1A

Address

E-21-31N-9W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7569 API NO. 30-045-22815 Federal ☒ State ☐ Fee ☒

The following facts are submitted in support of downhole commingling.	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Pictured Cliffs - 72359		Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	Will be supplied upon completion.		4853'-5970'
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	(Current) a. 567 psi (est.) (offset SJ 32-9 #94) (see attachment) (Original) b. 817 psi (est.) (offset SJ 32-9 #94) (see attachment)		a. 369 psi (see attachment) b. 805 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1131 (est.) (offset SJ 32-9 #94)		BTU 1137
7. Producing or Shut-In?	Not completed yet.		Producing
Production Marginal? (yes or no)	Yes		No
* If Shut-In 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:
* If Producing, give data and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	RECEIVED JUL - 7 1997 OIL CON. DIV. DIST. 3	Date: 6/30/97 Rates: 287mcf/d 5.52 bopd
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Will be supplied upon completion.		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
Have all offset operators been given written notice of the proposed downhole commingling? ☒ 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 all offset operators.
* 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 Lori Lantz TITLE Production Engineer DATE 7/2/97TYPE OR PRINT NAME Lori Lantz 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 Brava 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
Revised February 21, 1997
Instructions on t
Submit to Appropriate District O
State Lease - 4 Cc
Fee Lease - 3 Cc

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-045-22815	72359/72319	Blanco Pictured Cliffs/Blanco Mesaverde
Property Code	Property Name	Well Number
7569	Sunray G	1A
OGRID No.	Operator Name	Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	6473'

¹⁰ Surface Location

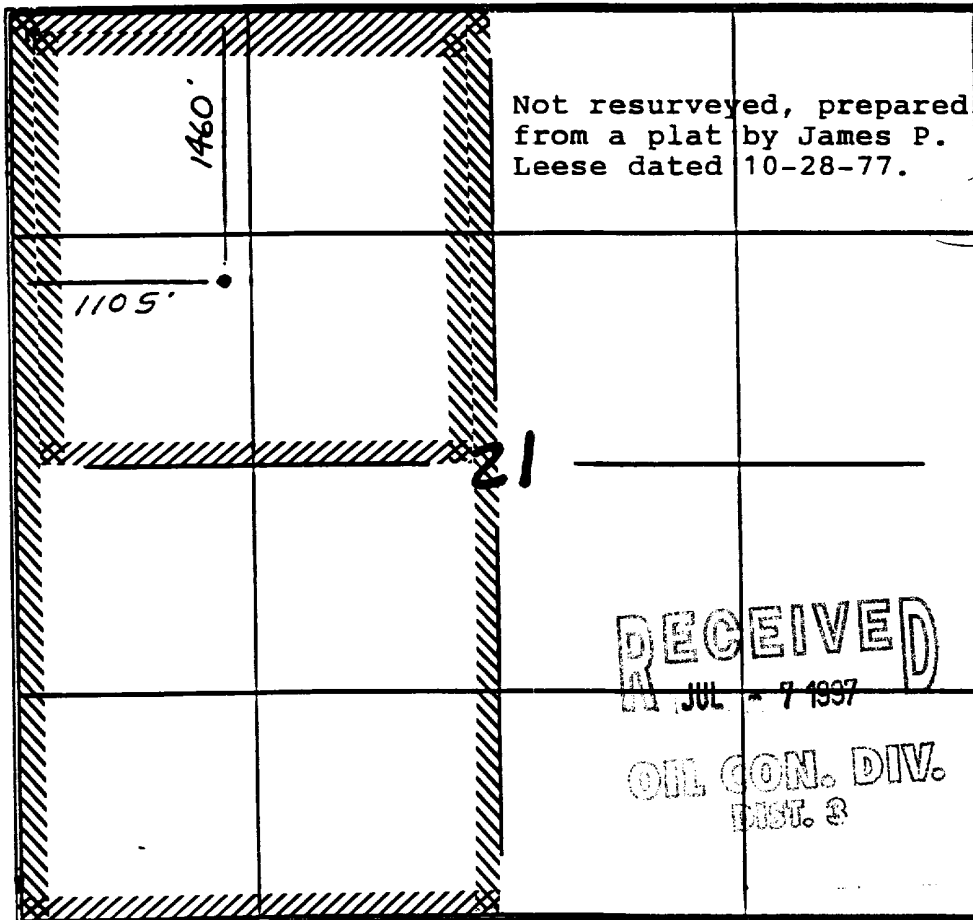
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	21	31-N	9-W		1460	North	1105	West	S.J.

¹¹ Bottom Hole Location if Different From Surface

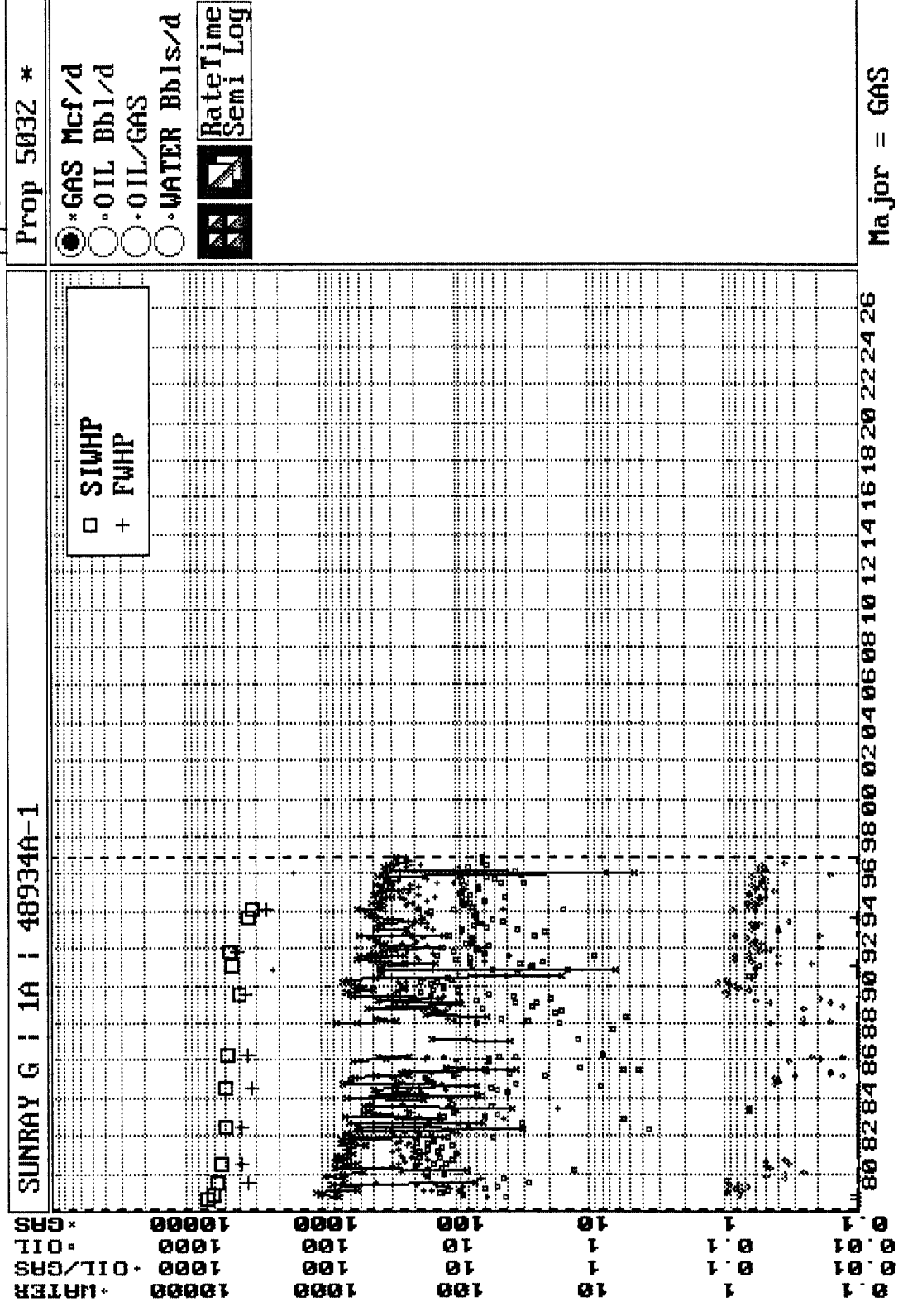
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acreage ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.
PC- 158.31
NV-W/317 01

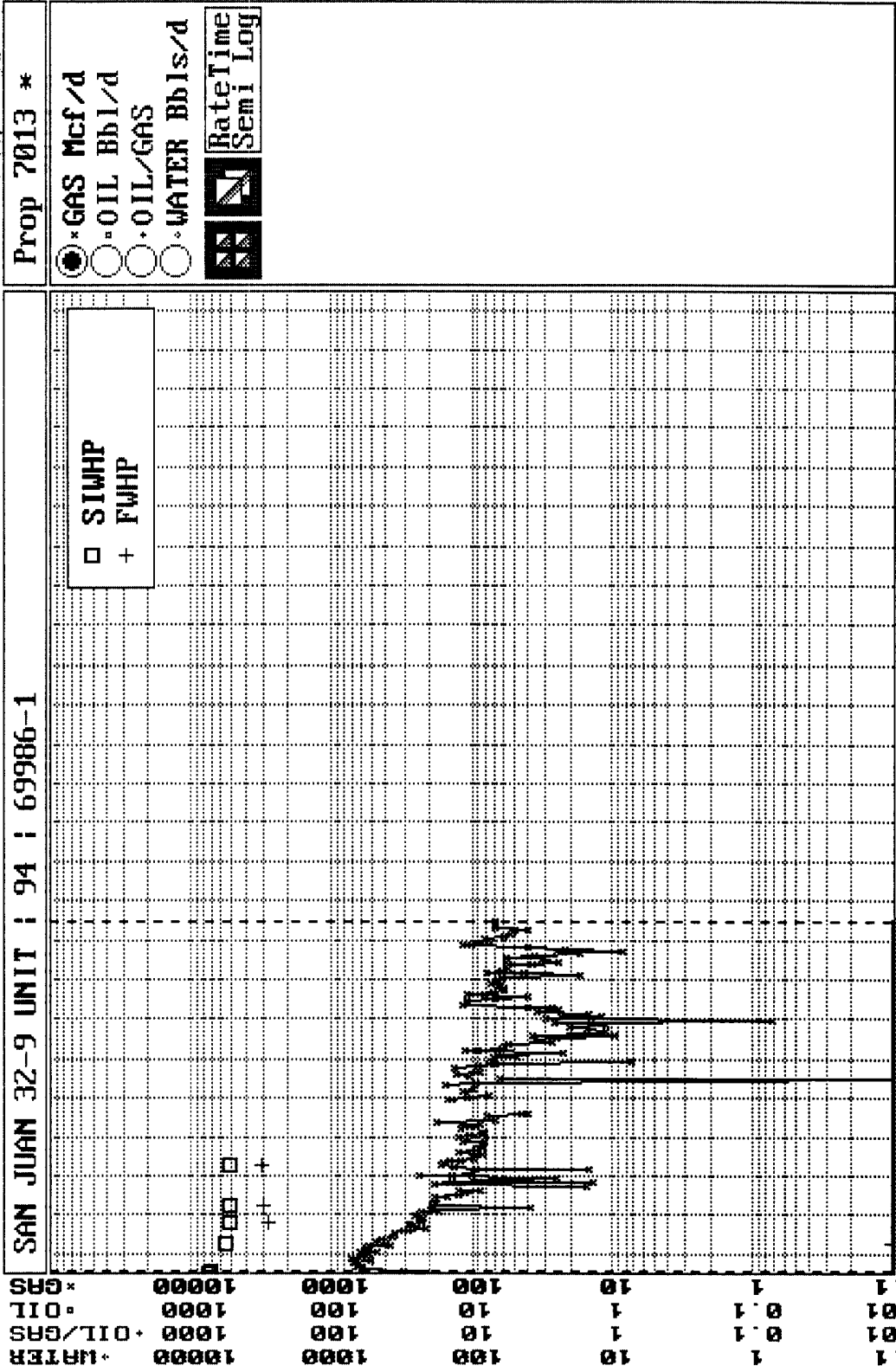
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	Not resurveyed, prepared from a plat by James P. Leese dated 10-28-77.
	¹⁷ OPERATOR CERTIFICATE I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Perry Bradford</i> Signature Perry Bradford Printed Name Regulatory Administrator Title 4-28-97 Date ¹⁸ SURVEYOR CERTIFICATE I hereby certify that the well location shown on this 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. 4/24/97 Date of Survey Signature and Seal of Professional Surveyor <i>Neale C. Edwards</i> NEALE C. EDWARDS NEW MEXICO 6857 REGISTERED PROFESSIONAL SURVEYOR 6857 Certificate Number

MV



PC- (ATTACHED)



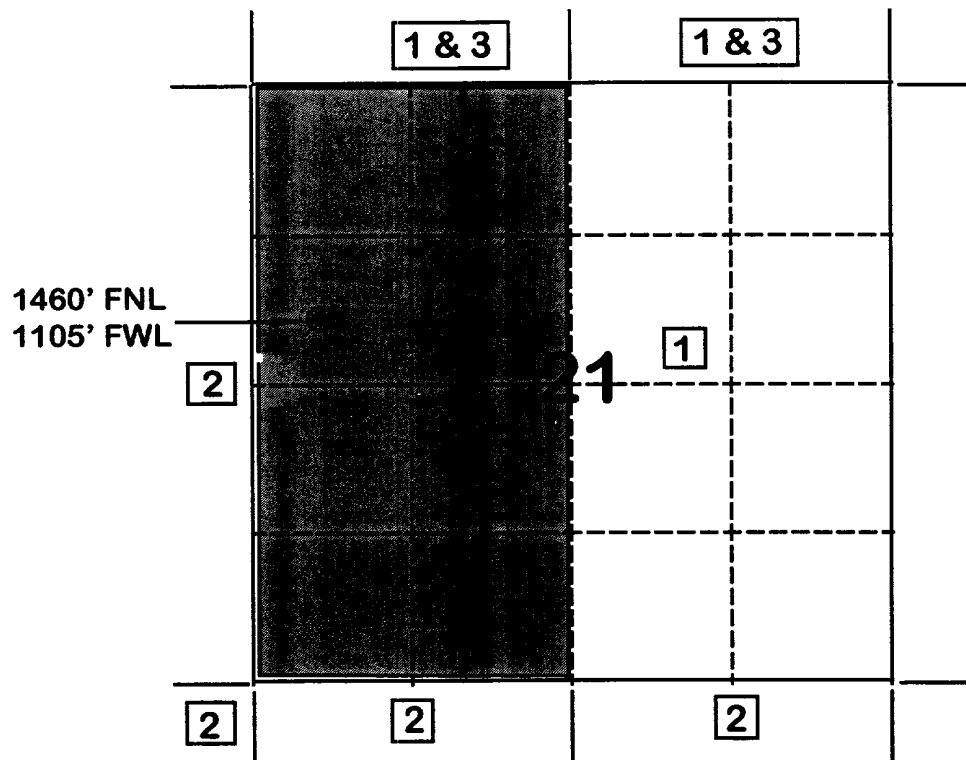
Major = GAS

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Sunray G #1A
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde (W/2)/Pictured Cliffs (NW/4) Formations Commingle Well

Township 31 North, Range 9 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Amoco Production Company
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 3) Four Star Oil & Gas Company
P.O. Box 46555
Denver, CO 80201

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 10/3/13/54

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	C
%N2	0.17
%CO2	1.85
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	3692
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	517
BOTTOMHOLE PRESSURE (PSIA)	566.6

SAN JUAN 32-9 UNIT #94 PICTURED CLIFFS (CURRENT)
SUNRAY G #1A PICTURED CLIFFS - (ANTICIPATED)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 10/3/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	C
%N2	0.17
%CO2	1.85
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	3692
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	743
BOTTOMHOLE PRESSURE (PSIA)	817.4

SAN JUAN 32-9 UNIT #94 PICTURED CLIFFS (ORIGINAL)
SUNRAY G #1A PICTURED CLIFFS - (ANTICIPATED)

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Browsing: SAN JUAN 32-9 UNIT | 94 | 69986-1 Property No.: 7013
 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/6/103224
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
11/08/78	0	743.0
02/21/79	15857	716.0
07/17/80	313840	573.0
08/03/81	444685	517.0
06/28/82	506461	516.0
07/12/84	583525	517.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table
 F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 10.3.13/94

GAS GRAVITY	0.71
COND. OR MISC. (C/M)	C
%N2	0.57
%CO2	0.82
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6034
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	685
BOTTOMHOLE PRESSURE (PSIA)	804.9

SUNRAY G #1A MESAVERDE - (ORIGINAL)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 10.3/10/94

GAS GRAVITY	0.71
COND. OR MISC. (C/M)	C
%N2	0.57
%CO2	0.82
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6034
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	317
BOTTOMHOLE PRESSURE (PSIA)	368.6

SUNRAY G #1A MESAVERDE - (CURRENT)

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Browsing: SUNRAY G | 1A | 48934A-1 Property No.: 5032
 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/12/103224
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
08/07/78	0	685.0
11/17/78	53427	634.0
06/21/79	205506	590.0
07/17/80	375372	553.0
06/28/82	782950	513.0
07/12/84	993923	515.0
04/04/86	1165038	492.0
06/21/89	1328509	399.0
01/10/91	1558216	461.0
10/08/91	1655153	473.0
08/16/93	1872121	337.0
01/31/94	1931089	317.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table
 F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

FDG055M4 S014
START OF DATA
DP NO: 48934A
SUNRAY G

WELL PRODUCTION 8/8'S VOLUME

07/02/97 14:16:31

DATE: 970630 (YYMMDD FORMAT)

1A SCROLL FORWARD BY DATE: _

S

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-
L	PRODUCED	ON	(BOPD	(MCFD	(BWPD
			BOPM)	MCFM)	BWPM)
-	06/30/97	24.0	5.52	165.60	287 8695 0.00 0.00
-	06/29/97	24.0	5.52	160.08	296 8408 0.00 0.00
-	06/28/97	24.0	5.52	154.56	300 8112 0.00 0.00
-	06/27/97	24.0	5.52	149.04	292 7812 0.00 0.00
-	06/26/97	24.0	5.23	143.52	291 7520 0.00 0.00
-	06/25/97	24.0	5.23	138.29	280 7229 0.00 0.00
-	06/24/97	24.0	5.23	133.06	295 6949 0.00 0.00
-	06/23/97	24.0	5.23	127.83	280 6654 0.00 0.00
-	06/22/97	24.0	5.23	122.60	239 6374 0.00 0.00
-	06/21/97	24.0	5.23	117.37	327 6135 0.00 0.00
-	06/20/97	24.0	5.23	112.14	203 5808 0.00 0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF6=NRI PF10=BROWSE MENU

PF11=INQ/UPDATE MENU

PF12=MAIN MENU

ENTER=BACKWARDS

PF24=HELP

B MY JOB

LU #16

18A (AMOCO) MOI Tr.#4 S.J. 32-9 Unit NP(F) 17 18 18R 19 19A S.J. 32-9 Unit	NM 4001 IA NM 9166 NM 4002 NM 9166 NM 4002 Aiken Cor. 16 TEXACO (NWPC) 1 NM 9187 P Wayne Moore Cor. IA P NM 9189	(AMOCO) 5A 6 6Y 6R JA 15 5 PA'95 5R 6A S.J. 32-9 Unit
3A AMOCO 4 20 3 4A Barrett(D) Barrett 'A'(P) Barrett Ls.(M) Barrett 'A'(D)	NM 820 1A 2 (AMOCO) R MV-PB Sunray 'G' 2A	AMOCO 4A 4 22 3 3A NM 9443 Riddle 'B'(F) Riddle 'D'Ls.(M) Riddle 'B'(D)
AMOCO 3A IR M PA '93 AMOCO 29 3 Riddle Ls.(M) Jacques Ls.(M)	AMOCO 2A 2 1R 1 PA '94 Sheets NM 400	AMOCO 2A E M D Abt. 97 2 IR IA Schwerdtfeger 'B' (M) Schwerdtfeger Con.(D) Bolack 'D'(D)

**SUNRAY G #1A WELL
ROYALTY INTEREST OWNERS**

AMOCO PRODUCTION COMPANY
ATNA/SJ 1993-A
BURLINGTON RESOURCES O&G CO
CONOCO INC
ERROLL D FERGUSON
JOSEPH M FERGUSON
JULIE ANN WEBB
LAURA DICHTER
LELAND STANFORD JR UNIVERSITY
MINERALS MANAGEMENT SERVICE
OLEN F FEATHERSTONE II
PATRICIA PARKER
PAUL SLAYTON
SAN JUAN 1990-A LP
WILLIAM ALAN FERGUSON
ANCHOR RESOURCES INC
ELEANOR M ARCHER TRUSTEE
LYNNE G BAKER
ELIZABETH ANN BALDWIN
HARRIET E BALDWIN
PAMELA GRAY BALDWIN
PATRICIA BONAS
MARIANNE CLAY BARNES
KELLY H BAXTER
DUANE BECK
ELIZABETH JANE BELL
JOHN A BELL
EVELYN MCELDERRY BENNETT
JANET E BENSON
CORRINE LAWRENCE BERKE
BITTERROOT PUBLIC LIBRARY
CARL J BLOOM
JANET D BOEHME
MARTHA JEAN BOGUE
HAZEL ASHLEY BRACKEN
JUNE BROWN ESTATE
BUXTON FAMILY TRUST
ALVIN F BUXTON
JULIE K BYERLIEN REV. TRUST
GLEN S CADE
ETTORE CANDELIERE
P CANDELIERE JR
JOHN C CARBONE
TONY R CARBONE
BARBARA CASE
AGNES CASPARY ESTATE
SUZANNE MCDONALD CHAMBERS
DENNIS MICHAEL CHILCOAT
JANE CHULICK
CAROLYN SUE CLAY
DALE ARTHUR CLAY
LAWRENCE JOHN CLAY
VERNA C CLAY, TRUSTEE

CATHERINE A CRAWFORD
CREPS FAMILY TRUST
EMMA F CRUMP
GERALD J CUTLER
DAVANT FAMILY TRUST
JEREMY S DAVIS
WATERS S DAVIS III
DOROTHY H DIETRICH
BARBARA REESE DINGES
KENYON F DOBBERTEN
FLORANCE LIMITED COMPANY
FRANCES LITTLEJOHN GAINES
BETTY GIBSON
JEAN GIVENROD
ROSE GOMBOTZ
JOSEPH E & TWILA M GOODING
DAVID H GRAY
JOHN L GRAY
GROVER BROS LTD PARTNERSHIP
ARDEN R GROVER
LAURENE HALLIDAY
DIANE M HANDLEY
BURNADETTE HART
HARWELL INVESTMENT COMPANY
JANIS HATAK
SHEILA J HATCH
STANLEY W HATCH
DAVID HENDERSON
RUTH E HILLIS
HISER 1978 TRUST
MARY ANNE & ROBERT L HOWARD
CONSTANCE Z HUFF
MAE MARIE HURTGEN
LINDA JACKSON
EFFIE JACQUEZ
CONCEPCION M JACQUEZ
RUDY JACQUEZ
STEVEN JACQUEZ
W L JENNINGS
DAVID P JETKIEWICZ
GENEVIEVE JETKIEWICZ
JOSEPH JETKIEWICZ SR
JOSEPH J JETKIEWICZ JR
FRANK F JONES
MARGARET A KEARNS TRUST
MARGARET A KEARNS TRUST
W D KENNEDY
MARY E KERNS
HENRIETTA E KIRKBRIDE
JULIANNE KLINE
MILTON M KRASNE
PHYLLIS KULPA
SHIRLEY LAUXMAN

**SUNRAY G #1A WELL
ROYALTY INTEREST OWNERS**

JAMES R LEETON JR
RICHARD H LEVY
RUTH BARNARD LOWE
RUTH E LUNDIN
TWYLA & FRANK A LUTGE
ARNE S MAKI
JANE C MANETZKE
ROGER ALLEN MASSEY
ERVIN S MASSINGILL
THOMAS L MASSINGILL
HAZEL G MATHEWS
ELIZABETH MATICK
NORMA C MATTHEWS
ROSALIND GRACE MCCLUSKEY
BARBARA MCCOLLOUGH
ANITA MCDONALD
DAVID GRAHAM MCDONALD
BOB E MCELDERRY
EUKGENE MCELDERRY JR
JOE M L MELTON
CHRISTINE A MERCURIO
CYNTHIA GRAY MILANI
LORAYN MILLER
ROLAND MOHRMANN
WILLIAM MOHRMANN
BEVERLY J MOLEN
LLOYD J & RUTH R MONEY TRUSTEES
ESTHER M NEEB
NORDAN TRUST
PEARL NEUGENT NORDAN ESTATE
JACK OROS
JOHN L OROS
JOHN S OROS
LARRY A OROS
LEONA M OROS
CLEMENT G PATOCKA
JAMES F PATOCKA
ROBERT G PATOCKA
LOIS PATTON
PEDERSON FAMILY TRUST
ANN PENNY
SISTER MARY PERPETUA
THOMAS W PETTIT
DANIEL C PIRTLE
ALBERT L PLATZ
HARRY D PORTER REV. TRUST
PAUL T PURCELL
DONALD W RADEACKAR
ELEANOR J RADEACKAR LIVING TRUST
RONALD RADEACKAR

HANELLA C RAHN
HENRY RAHN TRUST
LILLIAN RAINEY
DAVID ELBERT REESE
ELIZABETH GOODWIN REESE
CATHARINE GRAY REMENICK
LOIS RICE
MARIE RICE
MERLE RICE
PATRICIA RICE
ALAN K ROACH
GENE LESTER ROACH
ROGER D ROACH
JOANNE THOMPSON RUGELEY
PAUL L RUPP, III
JERRY C RYAN
HELEN RICE SCHLICHT
ROBERT SCHROTT
MARY E BARRY SEXTON
BEVERLY S SHILLINGLAW
LORENE RAYBOURN SMITH
BESSIE W SNYDER
BETTY WEST STEDMAN
ELEANOR LORRAINE STEVENS
ALISON CRAWFORD STONE
MARY ELLEN SUMMERHOUSE
G E THOMPSON
JANE M THOMPSON TRUST
MWOOD ROBERT THOMPSON
BETTE H TOUGAS
ARLENE TOWNSEND
MOLLY J TREGASKIS
ROBERT TREICHEL
TRIPLE S TRUST
DORTHY M TUCKER ESTATE
KATHERINE M TUFT
UNION OIL COMPANY OF CALIFORNIA
MARGARET HARDY VAN SANT ESTATE
PATRICIA ANN VANDE VEN
DAVID P VINSON
ANNA MAY VOLLBRECHT
FRANK P WACHOLZ
REBECCA ANN REESE WARD
JAMES WENDELL WEST
WESLEY WEST MINERALS LTD
MICHELLE P WESTEN
MARY ANN WORKMAN
JOHN WRATHER
MAE B ZIMMER