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 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A
New 3-12-96

APPROVAL PROCESS :
_X_ Administrative ___Hearing

EXISTING WELLBORE
_x_ YES ___ NO

Burlington Resources Oil & Gas Company — Operator
PO Box 4289, Farmington, NM 87499 — Address

Sunray D — Lease | 2R — Well No. | A 21-30-10 — Unit Ltr. - Sec - Twp - Rge | San Juan — County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. _14538_____ Property Code _7566____ API NO. _30-045-23862__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 Pictured Cliffs - 72359		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	2964-3066'		5142-5553'
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. 346 psi (see attachment) (Original) b. 926 psi (see attachment)	a. b.	a. 381 psi (see attachment) b. 617 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1159		BTU 1238
7. Producing or Shut-In?	producing		producing
Production Marginal? (yes or no)	yes		yes
* 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: Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 12-96 Rates: 17 mcfd; 0 bopd	Date: Rates:	Date: 12-96 Rates: 79 mcfd; 0.8 bopd
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % will be supplied upon completion

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OIL CON. DIV.
DIST. 3

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
Have all offset operators been given written notice of the proposed downhole commingling? _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 all offset operators.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* 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 Mary Ellen Lutey TITLE Production Engineer DATE 2/17/97

TYPE OR PRINT NAME Mary Ellen Lutey TELEPHONE NO. (505) 326-9700

1979

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

~~Form~~ E OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	SUNRAY "D" (SF-078204)	2R

Unit Letter	Section	Township	Range	County
A	21	30N	10W	San Juan

Actual Footage Location of Well:
1065 feet from the North line and 1000 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6343	PICTURED CLIFFS	BLANCO MESA VERDE BLANCO PICTURED CLIFFS EXT.	165.04 & 326.44 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

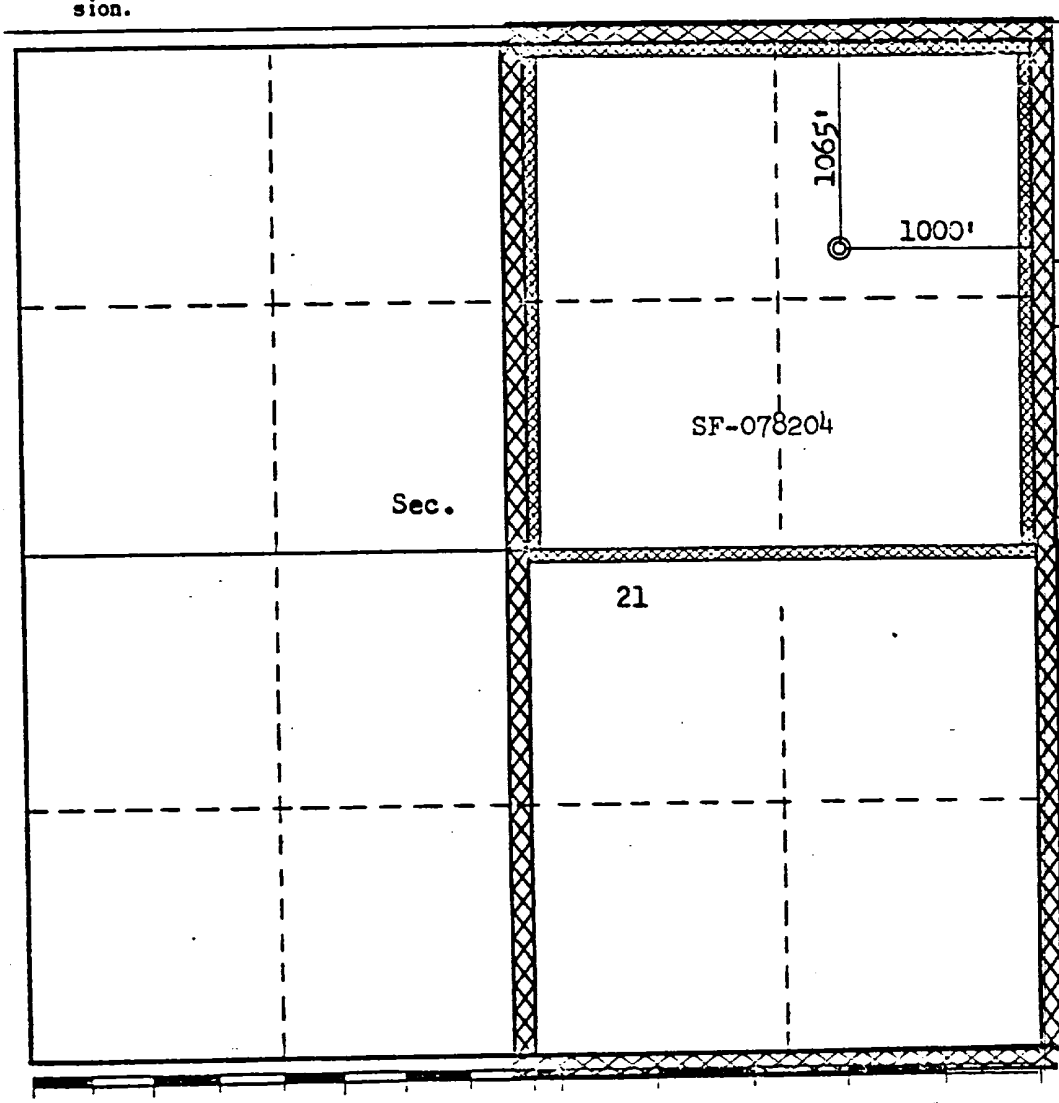
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

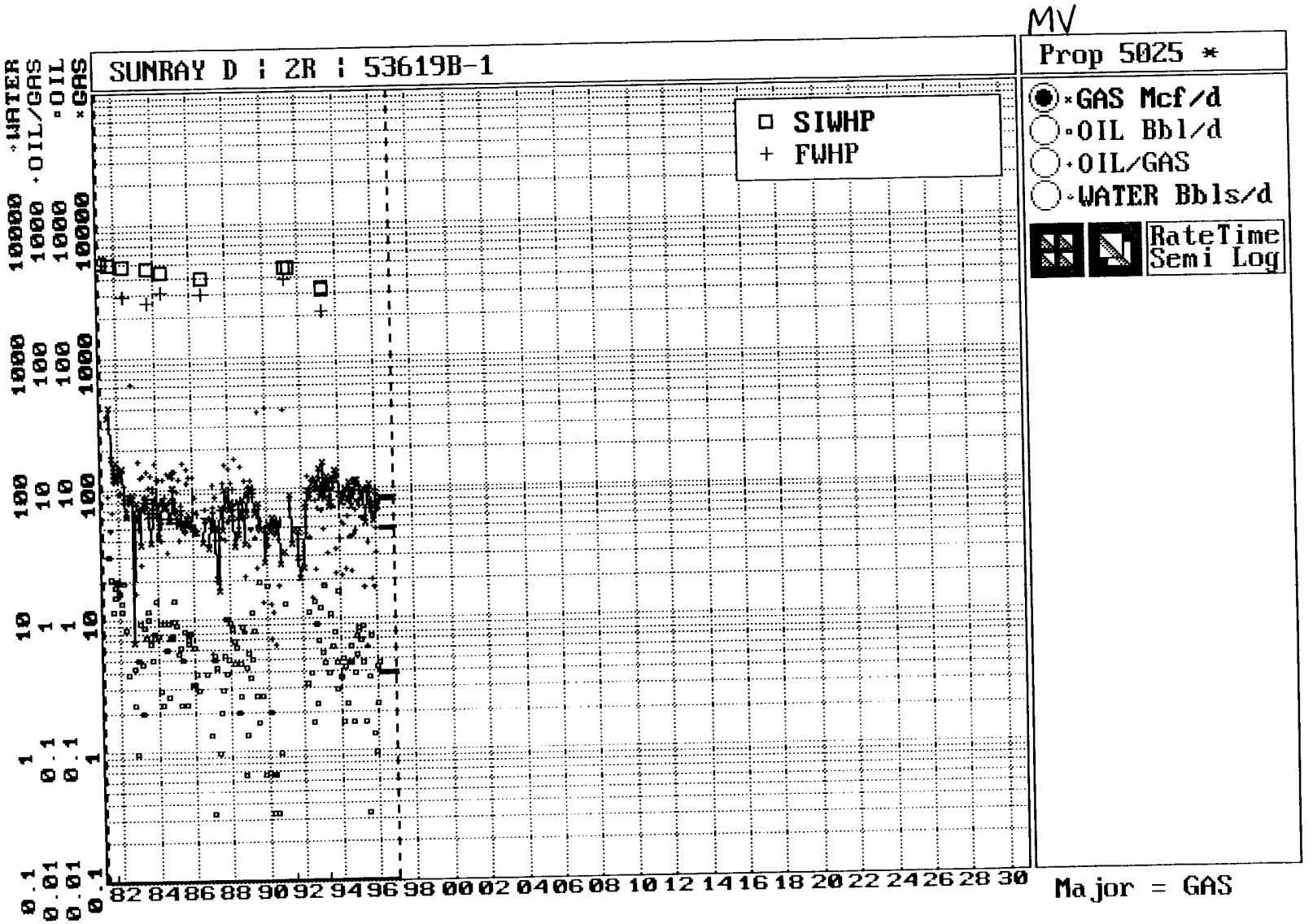
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

D. G. Bisco
Name
Drilling Clerk
Position
El Paso Natural Gas Co.
Company
September 20, 1979
Date

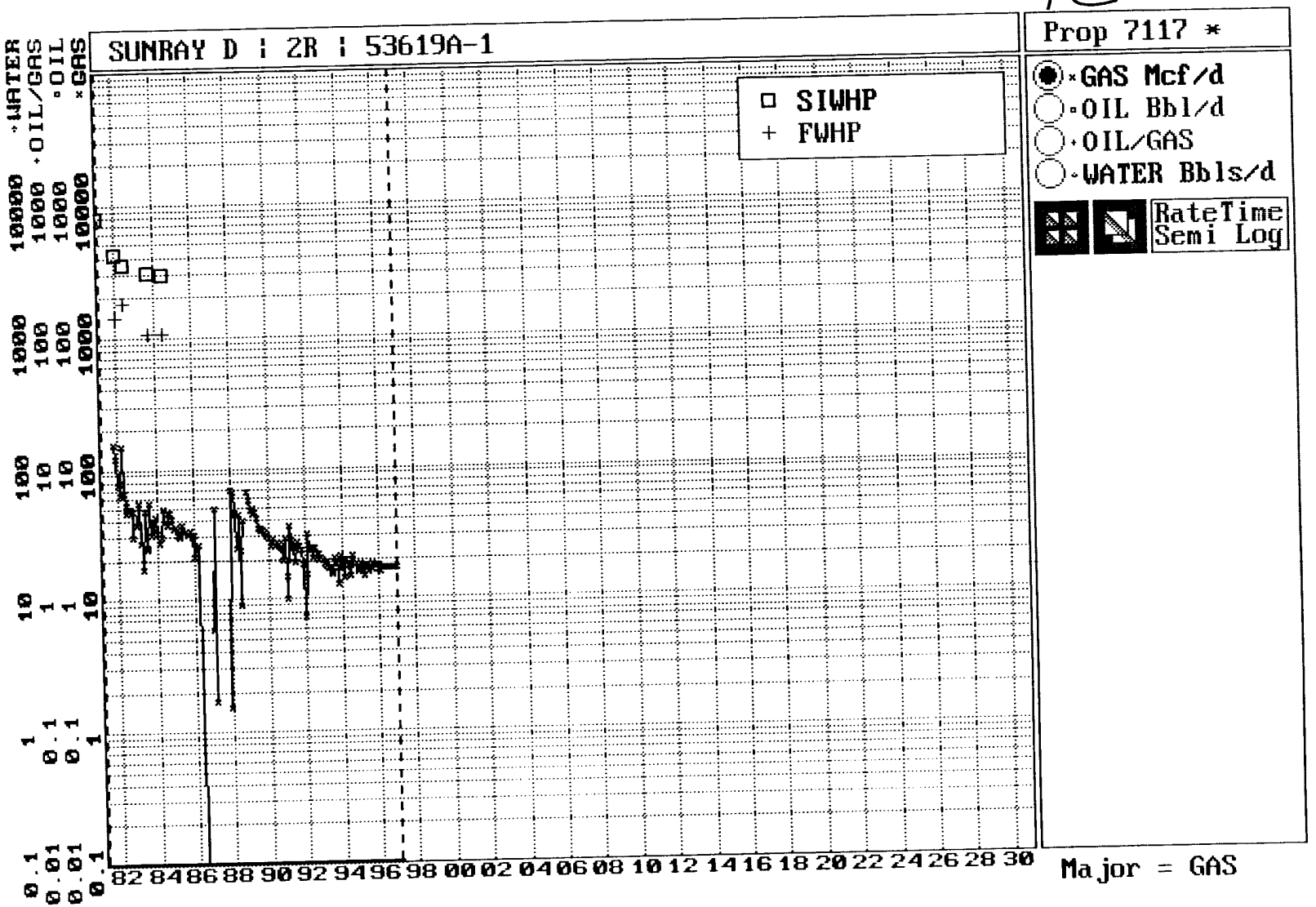
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
July 7, 1979
Registered Professional Engineer and/or Land Surveyor
Fred B. Kerr Jr.
Certificate No.
3950

FRED B. KERR, JR. NEW MEXICO 3950 REGISTERED LAND SURVEYOR


MV
SUNRAY D : 2R : 53619B-1
SIWHP
FWHP
Prop 5025 *
*GAS Mcf/d
*OIL Bbl/d
*OIL/GAS
*WATER Bbls/d
RateTime
Semi Log
Major = GAS
*WATER *OIL/GAS *OIL *GAS
82 84 86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30

PC

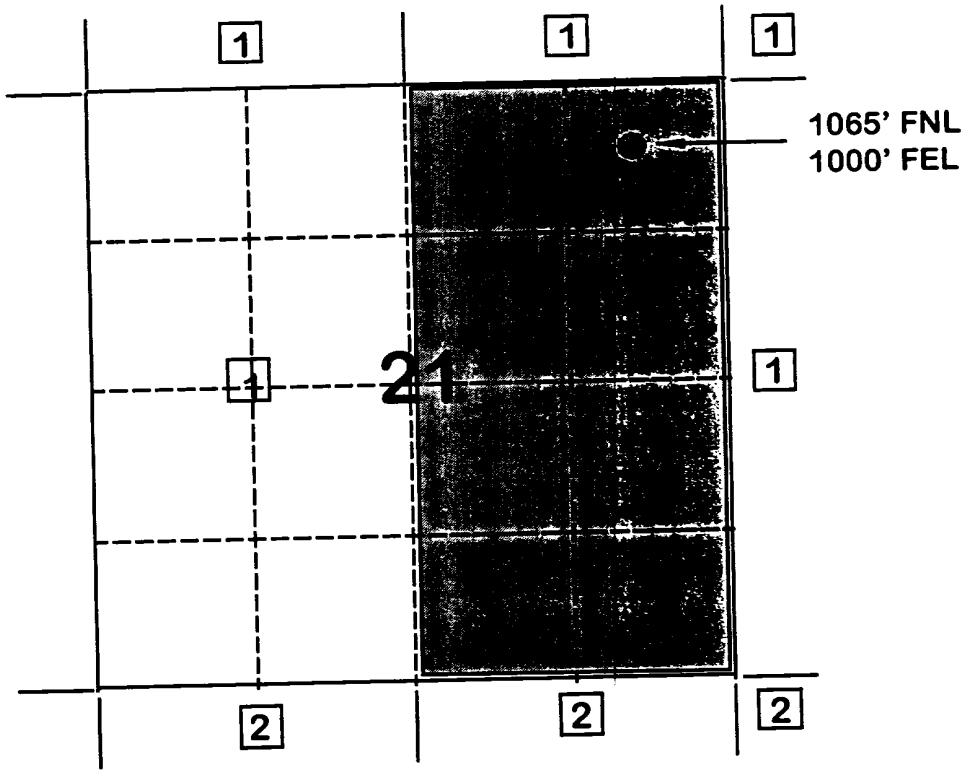

SUNRAY D ¦ 2R ¦ 53619A-1
SIWHP
FWHP
•WATER
•OIL/GAS
•OIL
•GAS
Prop 7117 *
•GAS Mcf/d
•OIL Bbl/d
•OIL/GAS
•WATER Bbls/d
RateTime
Semi Log
82 84 86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30
Major = GAS

BURLINGTON RESOURCES OIL AND GAS COMPANY

Sunray D #2R
OFFSET OPERATOR \ OWNER PLAT

Mesaverde (E/2)/Pictured Cliffs (NE/4) Formations Commingle Well

Township 30 North, Range 10 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

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD
VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	C
%N2	0.34
%CO2	0.78
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5654
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	330
BOTTOMHOLE PRESSURE (PSIA)	381.0

SUNRAY D 2R MESAVERDE - (CURRENT)

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD
VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	C
%N2	0.34
%CO2	0.78
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5654
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	531
BOTTOMHOLE PRESSURE (PSIA)	616.5

SUNRAY D 2R MESAVERDE - (ORIGINAL)

MV

Organize Data ScreenGraph Economics Report Plot Utility Quit

Property No.: 5025

Browsing: SUNRAY D | 2R | 53619B-1

Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/11/103224

Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM_GAS-- Mcf	M_SIWHP Psi
03/11/81	0	531.0
03/25/81	0	532.0
08/10/81	23647	508.0
05/13/82	63393	481.0
09/15/83	93739	464.0
06/05/84	113164	441.0
08/21/86	155233	390.0
04/08/91	243033	479.0
05/20/91	245710	467.0
04/15/93	298520	318.0
04/20/93	295843	330.0

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 1.0 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	C
%N2	0.35
%CO2	0.35
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	5654
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	302
BOTTOMHOLE PRESSURE (PSIA)	345.8

SUNRAY D 2R PICTURED CLIFFS - (ORIGINAL)

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD
VERSION 1.0 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	C
%N2	0.35
%CO2	0.35
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	5654
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	798
BOTTOMHOLE PRESSURE (PSIA)	925.9

SUNRAY D 2R PICTURED CLIFFS - (ORIGINAL)

PC

Organize Data ScreenGraph Economics Report Plot Utility Quit
Property No.: 7117
Browsing: SUNRAY D | 2R | 53619A-1
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/5/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM_GAS-- Mcf	M_SIWHP Psi
01/01/80	0	798.0
12/14/81	10729	428.0
05/13/82	23348	351.0
09/15/83	40059	307.0
06/05/84	47852	302.0

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

PHS030M

FARMINGTON 1996 MONTHLY PRODUCTION FOR 53619A

SUNRAY D 2R

BLANCO PICTURED CLIFFS (GAS) FIELD PICTURED CLIFFS ZONE

			DAYS	OIL			GAS					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER PROD
1	2	F					01	536	31	1138	15.025	
2	2	F					01	481	29	1138	15.025	
3	2	F					01	540	31	1147	15.025	
4	2	F					01	241	30	1147	15.025	
5	2	F					01	3	31		15.025	
6	2	F					01	803	18	1147	15.025	
7	2	F					01	354	31	1146	15.025	
8	2	F					01	591	31	1146	15.025	
9	2	F					01	506	18	1146	15.025	
10	2	F					01	617	28	1146	15.025	
11	2	F					01	557	30	1146	15.025	
12	2	F					01	528	31	1146	15.025	

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION
PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTIC

00/00/00 00:00:00:0 PRS 02/05/97

B MY JOB NUM LU #27

PHS030M

FARMINGTON 1996 MONTHLY PRODUCTION FOR 53619B

SUNRAY D 2R

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

			DAYS	OIL			GAS					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER PROD
1	2	F	31	02	13		01	2735	31	1216	15.025	
2	2	F	29	02	14	51.0	01	2139	29	1216	15.025	
3	2	F	31	02	7		01	2401	31	1216	15.025	
4	2	F	30	02	2		01	2808	30	1250	15.025	
5	2	F	31	02			01	1826	31	1250	15.025	
6	2	F	27	02	3		01	2267	27	1250	15.025	
7	2	F	31	02	1		01	2203	31	1250	15.025	
8	2	F	31	02			01	1568	31	1250	15.025	
9	2	F	19	02			01	1006	19	1226	15.025	
10	2	F	26	02	4		01	2021	26	1226	15.025	
11	2	F	30	02	18		01	2284	30	1226	15.025	
12	2	F	31	02	24		01	2444	31	1226	15.025	

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION
PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTIC

00/00/00 00:00:00:0 PRS 02/05/97

B MY JOB NUM LU #27

SUNRAY D #2R
SECTION 21, T30N, R10W
MESAVERDE - PICTURED CLIFFS