

DATE IN 1/18/00	SUSPENSE 2/7/00	ENGINEER DC	LOGGED KV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2629

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]

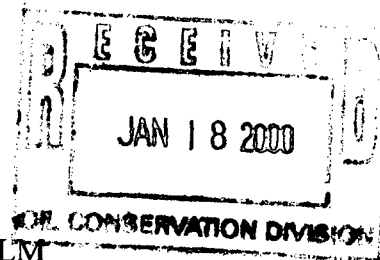
[A] Location - Spacing Unit - Directional Drilling
NSL NSP DD SD

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

Peggy Cole
Signature

Regulatory/Compliance Administrator

Print or Type Name

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 ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY

PO BOX 4289, FARMINGTON, NM 87499

Operator

Address

SUNRAY E

2

09-30N-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 7567 API NO. 30-045-09662 Federal ☒ , 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	Aztec PICTURED CLIFFS-71280		BLANCO MESAVERDE - 72319
2. Top and Bottom of Pay Section (Perforations)	2996'-3020'		5232'-5364'
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) 306 psi (see attachment) b. (Original) 1041 psi (see attachment)		a. (Current) 498 psi (see attachment) b. (Original) 997 psi (see attachment)
6. Oil Gravity (EAPI) or Gas BTU Content	BTU 1167		BTU 1231
7. Producing or Shut-In?	Producing		Producing
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			
* 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? ☒ Yes ___ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ___ 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. 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

Al Adson

TITLE PRODUCTION ENGINEER

DATE:

1/12/00

TYPE OR PRINT NAME SCOTT DOBSON

TELEPHONE NO. 505-326-9700

**MEXICO OIL CONSERVATION COMMIS
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102
Supersedes C-128
Effective 1-1-65

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

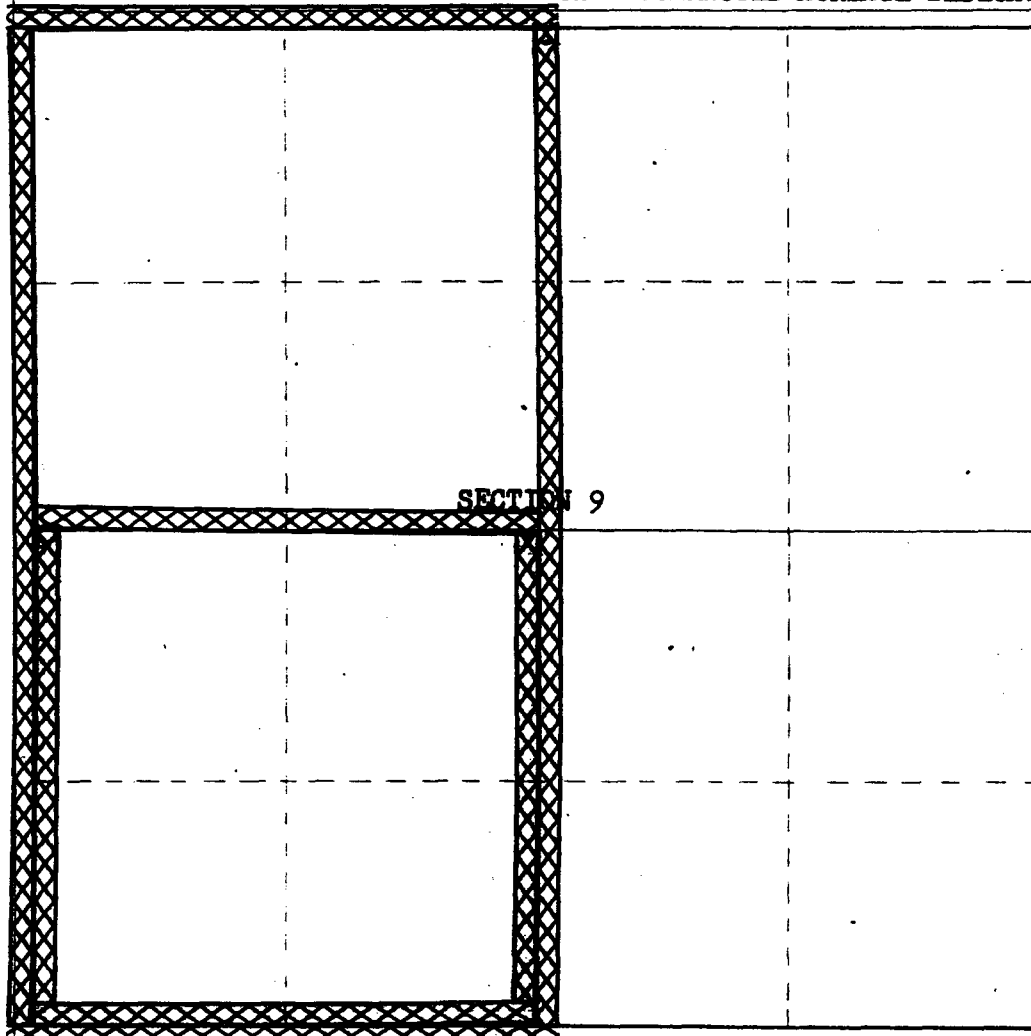
Operator EL PASO NATURAL GAS COMPANY		Lease SUNRAY E		(SF-077730)		Well No. 2
Unit Letter L	Section 9	Township 30-N	Range 10-W	County SAN JUAN		
Actual Postage Location of Well: 1650 feet from the SOUTH line and 990 feet from the WEST line						
Ground Level Elev. 6395	Producing Formation P. C. & M. V.		Pool AZTEC PICTURED CLIFFS BLANCO MESA VERDE		Dedicated Acreage: 150.68 & 303.04	

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. **NOTE: PLAT REISSUED TO SHOW CORRECTED ACREAGE DEDICATION PER NEW SURVEY. 2-13-70**



CERTIFICATION

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

Original Signed **F. H. WOOD**
Name

Petroleum Engineer
Position

El Paso Natural Gas Co.
Company

February 13, 1970
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
JANUARY 11, 1957

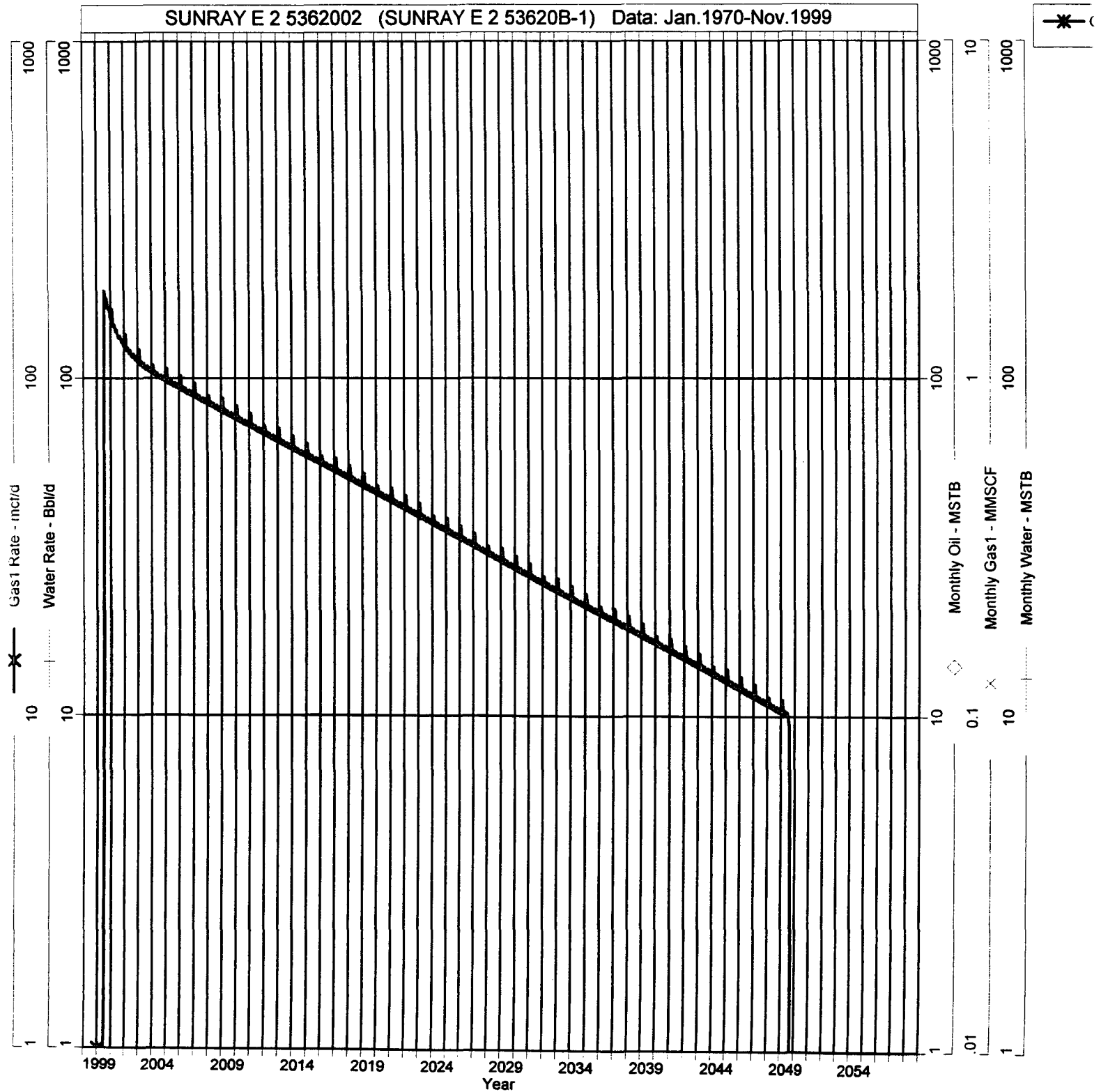
Registered Professional Engineer
and/or Land Surveyor

C. O. WALKER

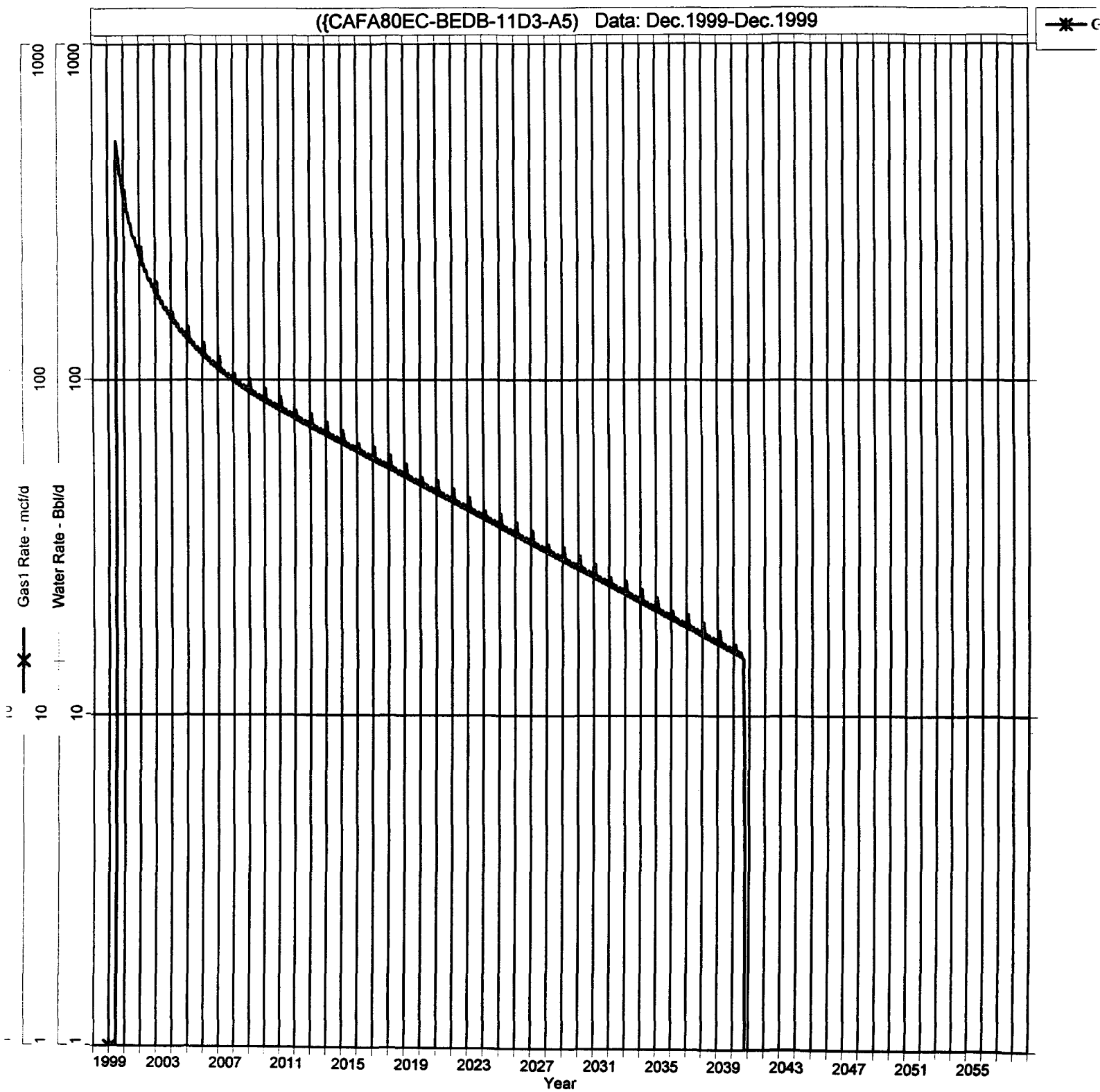
Certificate No.

330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

Sunray E #2
Expected Production
Pictured Cliffs Formation



Sunray E #2
Expected Production
Mesaverde Formation



Sunray E #2
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Pictured Cliffs		Mesaverde	
<u>PC-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0.663	GAS GRAVITY	0.709
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.17	%N2	0.31
%CO2	0.53	%CO2	0.73
%H2S	0	%H2S	0
DIAMETER (IN)	1.66	DIAMETER (IN)	2.375
DEPTH (FT)	3025	DEPTH (FT)	5306
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)	285	SURFACE PRESSURE (PSIA)	438
BOTTOMHOLE PRESSURE (PSIA)	305.8	BOTTOMHOLE PRESSURE (PSIA)	498.1
<u>PC-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.663	GAS GRAVITY	0.709
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.17	%N2	0.31
%CO2	0.53	%CO2	0.73
%H2S	0	%H2S	0
DIAMETER (IN)	1.66	DIAMETER (IN)	2.375
DEPTH (FT)	3025	DEPTH (FT)	5306
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)	962	SURFACE PRESSURE (PSIA)	869
BOTTOMHOLE PRESSURE (PSIA)	1040.7	BOTTOMHOLE PRESSURE (PSIA)	996.9

Sunray E #2

Existing Pictured Cliffs

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
SUNRAY E 2	6/7/60	962
SUNRAY E 2	6/15/60	970
SUNRAY E 2	11/6/60	663
SUNRAY E 2	7/21/61	638
SUNRAY E 2	4/9/62	592
SUNRAY E 2	4/12/63	539
SUNRAY E 2	10/7/64	488
SUNRAY E 2	4/1/65	516
SUNRAY E 2	9/19/66	496
SUNRAY E 2	3/22/67	440
SUNRAY E 2	8/15/68	430
SUNRAY E 2	4/16/69	422
SUNRAY E 2	6/2/70	485
SUNRAY E 2	3/26/71	390
SUNRAY E 2	5/22/72	349
SUNRAY E 2	4/23/73	337
SUNRAY E 2	9/9/74	340
SUNRAY E 2	9/8/76	307
SUNRAY E 2	5/1/78	276
SUNRAY E 2	7/2/80	282
SUNRAY E 2	5/26/82	283
SUNRAY E 2	7/26/84	285

Sunray E #2

Existing Mesaverde

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
SUNRAY E 2	12/30/57	869
SUNRAY E 2	1/20/58	868
SUNRAY E 2	5/6/58	801
SUNRAY E 2	11/14/58	765
SUNRAY E 2	8/14/59	606
SUNRAY E 2	11/6/60	647
SUNRAY E 2	7/21/61	601
SUNRAY E 2	4/9/62	596
SUNRAY E 2	4/12/64	617
SUNRAY E 2	10/7/64	614
SUNRAY E 2	4/1/65	601
SUNRAY E 2	9/19/66	550
SUNRAY E 2	3/22/67	556
SUNRAY E 2	3/8/68	544
SUNRAY E 2	7/25/69	544
SUNRAY E 2	6/2/70	511
SUNRAY E 2	3/26/71	457
SUNRAY E 2	5/22/72	470
SUNRAY E 2	4/23/73	486
SUNRAY E 2	9/9/74	502
SUNRAY E 2	9/8/76	532
SUNRAY E 2	5/1/78	538
SUNRAY E 2	7/2/80	529
SUNRAY E 2	5/26/82	495
SUNRAY E 2	7/26/84	548
SUNRAY E 2	4/1/87	492
SUNRAY E 2	5/7/89	442
SUNRAY E 2	5/20/91	491
SUNRAY E 2	7/12/91	503
SUNRAY E 2	8/12/93	426
SUNRAY E 2	8/13/93	438

30N - 10W - 09L



Date: 12/30/99
Time: 11:12 am**Burlington Resources Oil & Gas Co.**
Asset Ownership Report

AOS001

Page: 1

Asset #:	5362000	Asset Name:	SUNRAY E
Completion #:	5362002	Completion Name:	SUNRAY E 2
Stage:	APPROVED	Stage Date:	12/1/99
Record Type:	WORKING INTEREST	Operator Name:	BURLINGTON RESOURCES OIL & GAS CO
Well Type:	GAS WELL	Operator Number:	99902104
Formation:	PICTURED CLIFFS	Division:	SAN JUAN DIVISION
Field:	BLANCO PICTURED CLIFFS (GAS)	Area:	SAN JUAN AREA
Status:	PRODUCING	Basin:	SAN JUAN BASIN
Status Date:	8/31/98	Team:	SAN JUAN BASIN - TEAM
Prod Reason:	FLOWING	Prospect:	SAN JUAN BASIN (MOI)(42)
Prod Method:	FLOWING	Property #:	012599000
Compltn Date:	1/12/58	Base File #:	
Landman:	BEN MALONE	DO Analyst:	

Legal Description

Surface Location:	State:	NEW MEXICO	County:	SAN JUAN		
Section:	Town:	Range	Block:	Unit:	Footage:	Latitude/Longitude
009	030N	010W		L NW/4 SW/4	1650 FSL 990 FWL	/

Bottom Hole Location:

Section:	Town:	Range	Block:	Unit:	Footage:	Latitude/Longitude
009	030N	010W		L NW/4 SW/4	1650 FSL 990 FWL	/

Dedicated Subdivision

Subdivision:	W2	Dedicated Acres:	160.000000					
State:	County:	Range:	Town:	Section:	Block:	Survey/Area:	Abstract:	Acreage:
NEW MEXICO	SAN JUAN	030N	010W	009				160.000
Call Description:	SW							

Exception Description:

Legal Description Remarks:**Company Ownership Breakdown:**

Owner Name:	Product:	Gross Interest:	Net Interest:	Interest Type:	Payout:	Trust Code:	Current Flag:
BURLINGTON RESOURCES OIL & GAS CO	ALL	100.000000	85.000000	WI	NONE		Y

Total Company Revenue Interest:

	Total Net:	Total Gross:	Total Net w/o Trust:	Total Gross w/o Trust:
Gas:	85.000000	100.000000	85.000000	100.000000
Oil:	85.000000	100.000000	85.000000	100.000000

Company Ownership Remarks:

1/1/98

LWM: ORIGINALLY COMPLETED AS AN MV WELL 1-12-58. THIS WELL
IS OWWO. 1ST DELIVERY AFTER WO: 7-23-64. PC AOF AFTER
WO 1,450 MCF. SUB. TO GRAD. SUNRAY ORI.

Date: 12/30/99
Time: 11:12 am

Burlington Resources Oil & Gas Co.
Asset Ownership Report

Completion #: 5362002

AOS001

Page: 2

DO/Unit Link:

Payout:	Product:	DO Number:	Unit PA Number:	Expansion #:	Current Flag:
NONE	ALL	80982400			Y

DO/Unit Link Remarks:

Description of Dedicated Leases:

Type:	Agreement #:	Legacy File #:	Agreement Name:	Lease Type:	Gross Acres in Well:	Net Acres in Well:	Expiration Date:	Status:
FPD	22048400	NM 808 300 SW	USA SF-077730	LSE	160.00	160.00	02/01/53	

Related Agreements:

Agreement #:	Legacy File #:	Agreement Name:	Lease Type:	Expiration Date:	Status:
24198404		SAN JUAN 100% WI DEFAULT JOA	OPERATING AGREEMENT		

Controlling Contract Information:

Contract Number: 24198404	Preferential Right to Purchase:
JOA Effective Date: 4/1/98	Expenditure Limit:
Non-Consent Penalty:	

Controlling COPAS Information:

COPAS Effective Date: 04-01-1990	COPAS Model Form: COPAS 1984
Annual Adjustment: Y	
Original Overhead: A. Drilling: 3,500.00 DOLLARS B: Producing: 345.00 DOLLARS	
District Expense:	
Employee Benefit Rate: 21.00	

Outside Cost Bearing Interest Owners:

Owner Name:	Owner Number:	Interest:	Payout:	Current Flag:	Eff Date:	Block Post Flag:
BURLINGTON RESOURCES OIL & G	999021 01	100.000000	NONE	Y	12/15/98	

Surface Owner/ Use Remarks:

Special Remarks:

Date: 12/30/99
Time: 11:12 am

**Burlington Resources Oil & Gas Co.
Asset Ownership Report**

AOS001

Page: 2

Asset #:	5362000	Asset Name:	SUNRAY E
Completion #:	5362001	Completion Name:	SUNRAY E 2
Stage:	CONVERTED-PRELIMINARY	Stage Date:	
Record Type:	WORKING INTEREST	Operator Name:	BURLINGTON RESOURCES OIL & GAS CO
Well Type:	GAS WELL	Operator Number:	99902104
Formation:	MESAVERDE	Division:	SAN JUAN DIVISION
Field:	BLANCO MESAVERDE (PRORATED GAS	Area:	SAN JUAN AREA
Status:	PRODUCING	Basin:	SAN JUAN BASIN
Status Date:	7/16/98	Team:	SAN JUAN BASIN - TEAM
Prod Reason:	INTERMITTER	Prospect:	SAN JUAN BASIN (MOI)(42)
Prod Method:	FLOWING	Property #:	012599000
Compltn Date:	1/20/58	Base File #:	NM 808 300
Landman:	ALAN ALEXANDER	DO Analyst:	

Legal Description

Surface Location:	State:	NEW MEXICO	County:	SAN JUAN		
Section:	Town:	Range	Block:	Unit:	Footage:	Latitude/Longitude
009	030N	010W		L NW/4 SW/4	1650 FSL 990 FWL	/

Bottom Hole Location:

Section:	Town:	Range	Block:	Unit:	Footage:	Latitude/Longitude
009	030N	010W		L NW/4 SW/4	1650 FSL 990 FWL	/

Dedicated Subdivision

Subdivision:	W2	Dedicated Acres:	320.000000					
State:	County:	Range:	Town:	Section:	Block:	Survey/Area:	Abstract:	Acres:
NEW MEXICO	SAN JUAN	030N	010W	009				320.000
Call Description:	W							

Legal Description Remarks:**Company Ownership Breakdown:**

Owner Name:	Product:	Gross Interest:	Net Interest:	Interest Type:	Payout:	Trust Code:	Current Flag:
BURLINGTON RESOURCES OIL & GAS CO	ALL	100.000000	85.000000	WI	NONE		Y

Total Company Revenue Interest:

	Total Net:	Total Gross:	Total Net w/o Trust:	Total Gross w/o Trust:
Gas:	85.000000	100.000000	85.000000	100.000000
Oil:	85.000000	100.000000	85.000000	100.000000

Company Ownership Remarks:

1/1/98

LWM: ORIGINALLY COMPLETED AS AN MV WELL 1-12-58. THIS WELL
IS OWWO. FIRST DELIVERY AFTER WO: 7-23-64. PC AOF AFTER
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Date: 12/30/99
Time: 11:12 am

Burlington Resources Oil & Gas Co.
Asset Ownership Report

Completion #: 5362001

AOS001

Page: 3

DO/Unit Link:

Payout:	Product:	DO Number:	Unit PA Number:	Expansion #:	Current Flag:
NONE	ALL	81260100			Y

DO/Unit Link Remarks:

Description of Dedicated Leases:

Type:	Agreement #:	Legacy File #:	Agreement Name:	Lease Type:	Gross Acres in Well:	Net Acres in Well:	Expiration Date:	Status:
FPD	22048400	NM 808 300 W/2	USA SF-077730	LSE	320.00	320.00	02/01/53	

Related Agreements:

Agreement #:	Legacy File #:	Agreement Name:	Lease Type:	Expiration Date:	Status:
24198404		SAN JUAN 100% WI DEFAULT JOA	OPERATING AGREEMENT		

Controlling Contract Information:

Contract Number: 24198404	Preferential Right to Purchase:
JOA Effective Date: 4/1/98	Expenditure Limit:
Non-Consent Penalty:	

Controlling COPAS Information:

COPAS Effective Date: 04-01-1990	COPAS Model Form: COPAS 1984
Annual Adjustment: Y	
Original Overhead: A. Drilling: 3,500.00 DOLLARS B: Producing: 345.00 DOLLARS	
District Expense:	
Employee Benefit Rate: 21.00	

Outside Cost Bearing Interest Owners:

Owner Name:	Owner Number:	Interest:	Payout:	Current Flag:	Eff Date:	Block Post Flag:
BURLINGTON RESOURCES OIL & G	999021 01	100.000000	NONE	Y	12/15/98	

Surface Owner/ Use Remarks:

Special Remarks: