

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 87410-1893

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

PO Box 4289, Farmington, NM 87499

Operator

San Juan 27-5 Unit

#61A

Address

I-05-27N-05W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7454

API NO. 30-039-21859

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	Tapacito Pic Cliffs- 85920		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	3506'-3562'		5182'-6050'
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 All Gas Zones: Estimated Original	(Current) a. 412 psi (see attachment) (Original) b. 1179 psi (see attachment)		a. 500 psi (see attachment) b. 870 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1204		BTU 1187
7. Producing or Shut-In?	Producing		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 of recent test (within 60 days)	Date: 6/98 Rates: 14 mcf/d 0 bopd		Date: 6/98 Rates: 228 mcf/d 0 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 ☐ No11. 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 ☐ No13. 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). R-10694

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 L. Tom Loveland TITLE Production Engineer DATE 6/22/98TYPE OR PRINT NAME L. Tom Loveland TELEPHONE NO. (505) 326-9700

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

Operator EL PASO NATURAL GAS COMPANY			Lease SAN JUAN 27-5 UNIT (SF-079393)		Well No. 61A
Unit Letter I	Section 5	Township 27N	Range 5W	County Rio Arriba	
Actual Footage Location of Well:					
1530		feet from the South	line and	820	feet from the East line
Ground Level Elev. 6681	Producing Formation Mesa Verde-Pictured Cliffs		Pool Blanco Mesa Verde		Dedication Acres 319.75 & 160.00
		Tapacito Pictured Cliffs		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 Unitization

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 re-issued to show formation change from single to dual completion 8/27/79

CERTIFICATION

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

A. G. Guiso

Name
Drilling Clerk

Position
El Paso Natural Gas Co.

Company
August 31, 1979

Date

RECEIVED

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

SEP 4 1979

U. S. GEOLOGICAL SURVEY

Date Surveyed

July 23, 1978

Registered Professional Engineer

and U.S. Geological Survey

Fred B. Kerr Jr.

Fred B. Kerr Jr.

U.S. GEOLOGICAL SURVEY

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MEXICO

SEP 11 1979

U.S. GEOLOGICAL SURVEY

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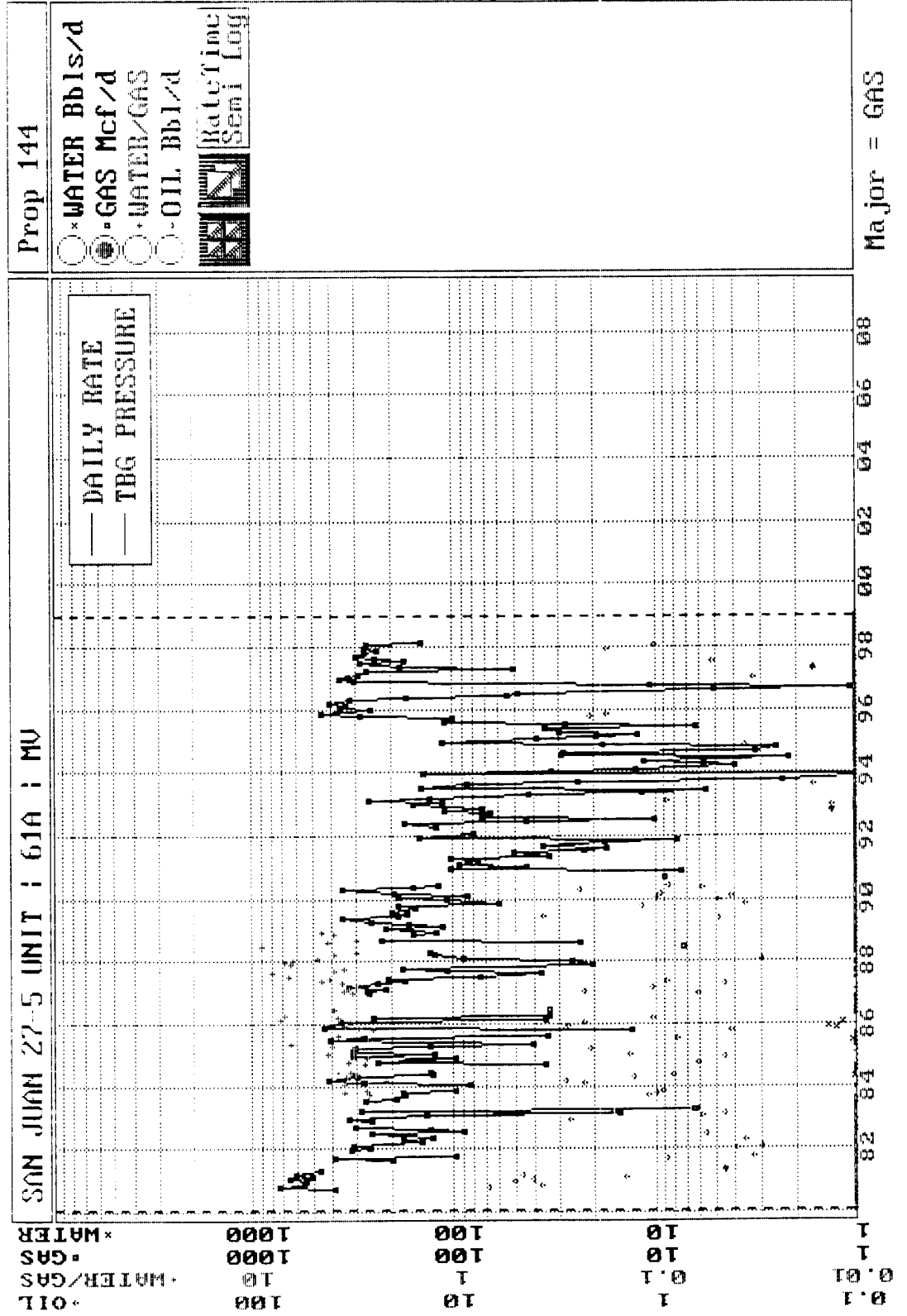
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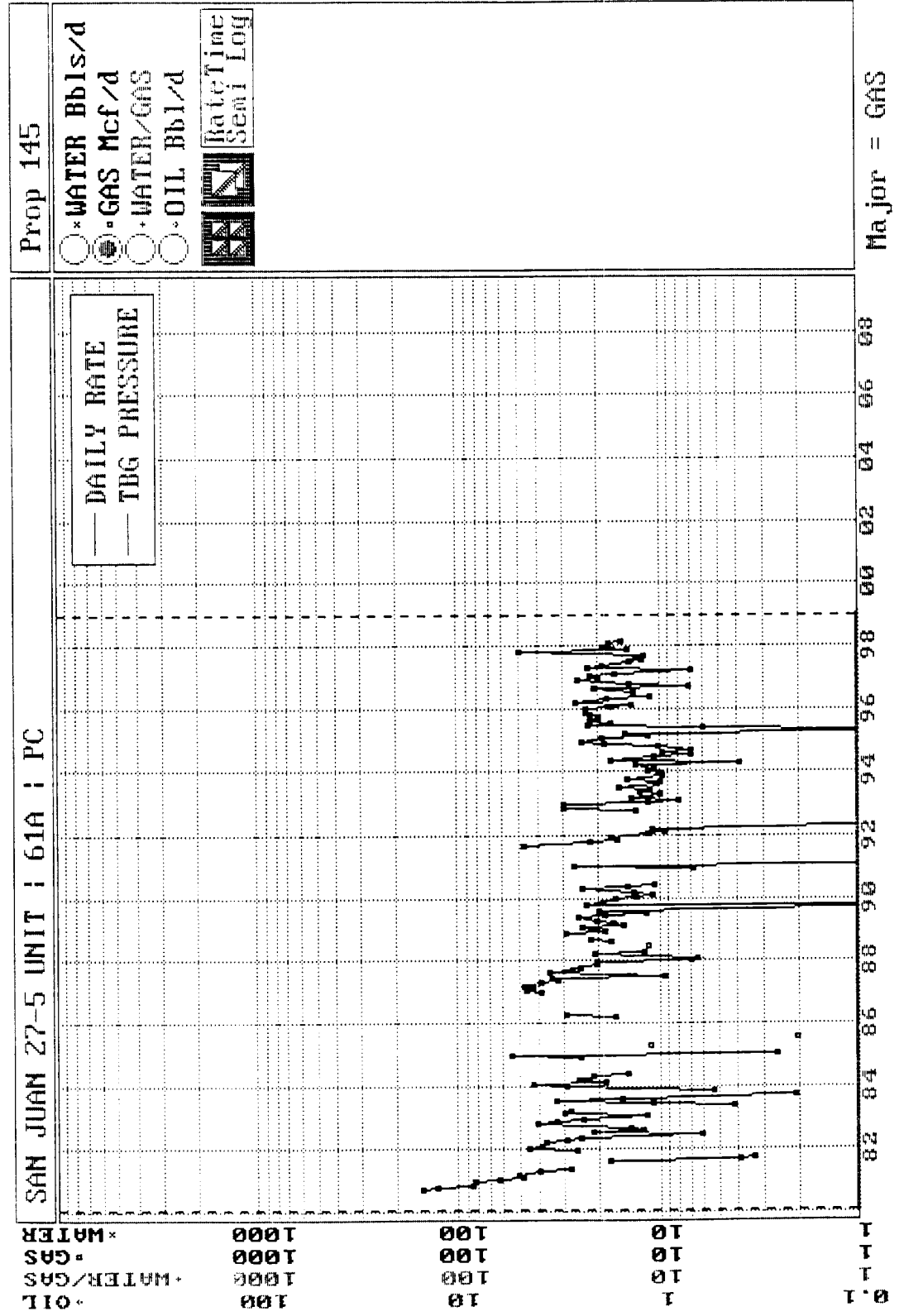
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MEXICO

SEP 11 1979

U.S.





San Juan 27-5 Unit #61A
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 1/14/98

Pictured Cliffs		Mesa Verde	
<u>PC-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	<u>0.698</u>	GAS GRAVITY	<u>0.685</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>1.1</u>	%N2	<u>0.23</u>
%CO2	<u>0.62</u>	%CO2	<u>1.06</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>7</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>3534</u>	DEPTH (FT)	<u>5616</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>109</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>138</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>376</u>	SURFACE PRESSURE (PSIA)	<u>435</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>411.9</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>500.0</u>
<u>PC-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	<u>0.698</u>	GAS GRAVITY	<u>0.685</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>1.1</u>	%N2	<u>0.23</u>
%CO2	<u>0.62</u>	%CO2	<u>1.06</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>7</u>	DIAMETER (IN)	<u>2.375</u>
DEPTH (FT)	<u>3534</u>	DEPTH (FT)	<u>5616</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>109</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>138</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1062</u>	SURFACE PRESSURE (PSIA)	<u>751</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1178.6</u>	BOTTOMHOLE PRESSURE (PSIA)	<u>870.1</u>

Page No.: 6

Print Time: Tue May 12 13:48:38 1998

Property ID: 202

Property Name: SAN JUAN 27-5 UNIT | 61A | PICTURED CLIFFS

Table Name: S:\ARIES\78LTL\TEST.DBF

<u>--DATE--</u>	<u>--CUM_OIL--</u> Bbl	<u>---CUM_GAS---</u> Mcf	<u>M SIWHP</u> Psi	
05/05/80		0	1062.0	Original
11/03/80		11064	685.0	
05/04/81		20642	537.0	
05/31/82		27610	569.0	
02/13/84		39383	543.0	
05/02/84		41266	509.0	
04/17/86		45567	656.0	
09/28/89		67560	484.0	
10/01/91		75186	582.0	
05/03/93		81142	542.0	
04/01/98		108307	376.0	Current estimated from PZ/data

Page No.: 7
Print Time: Tue May 12 13:48:38 1998
Property ID: 203
Property Name: SAN JUAN 27-5 UNIT | 61A | MESAVERDE
Table Name: S:\ARIES\78LTL\TEST.DBF

<u>--DATE--</u>	<u>--CUM OIL--</u>	<u>---CUM GAS---</u>	<u>M SIWHP</u>
	Bbl	Mcf	Psi

04/05/80		0	751.0
11/03/80		51386	572.0
05/04/81		135632	453.0
12/18/84		342501	462.0
01/02/87		456071	373.0
09/28/89		588429	420.0
02/18/91		640767	445.0
08/16/91		650018	457.0
05/03/93		701143	512.0
04/01/98		945926	435.0

Original

Current estimated from P2 data

Package Preparation Volume Data

DPNo.: 53394A SAN JUAN 27-5 UNIT 61A Form: PC

Supt: 60 KEN RAYBON FF: 335 LARY BYARS MS: 378 GARY NELSON
Pipeline: WFS Plunger: No Dual: Yes Compressor: No

<u>Ownership (No Trust)</u>			<u>Prior Year</u>			<u>Current Year</u>			
	<u>Gas</u>	<u>Oil</u>			<u>Days</u>			<u>Days</u>	
				<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>
GWI:	68.0078%	64.8149%	Jan	576	0.0	31	442	0.0	31
GNI:	57.2658%	54.8288%	Feb	408	0.0	28	371	0.0	28
			Mar	98	0.0	31	396	0.0	31
<u>Volumes</u>			Apr	594	0.0	30	0	0.0	30
<u>(Days On)</u>	<u>MCFD</u>	<u>BOPD</u>	May	480	0.0	31	0	0.0	0
7 Day Avg	20	0.0	Jun	324	0.0	30	0	0.0	0
30 Day Avg	14	0.0	Jul	263	0.0	31	0	0.0	0
60 Day Avg	13	0.0	Aug	293	0.0	31	0	0.0	0
3 Mo Avg	13	0.0	Sept	259	0.0	30	0	0.0	0
6 Mo Avg	20	0.0	Oct	1,448	0.0	25	0	0.0	0
12 MoAvg	16	0.0	Nov	332	0.0	30	0	0.0	0
			Dec	479	0.0	31	0	0.0	0
<u>Volumes</u>			Total	5,554	0.0		1,209	0.0	
<u>(Days in Month)</u>	<u>MCFD</u>	<u>BOPD</u>							
30 Day Avg	14	0.0							
60 Day Avg	13	0.0							
3 Mo Avg	13	0.0							
6 Mo Avg	19	0.0							
12 Mo Avg	16	0.0							

Print Form

Exit Volumes Data

Print Form

Exit Volumes Data

6/4/98

Package Preparation Volume Data

DPNo: 53394B SAN JUAN 27-5 UNIT 61A Form: MV

Supt: 60 KEN RAYBON FF: 335 LARY BYARS MS: 378 GARY NELSON
Pipeline: WFS Plunger: No Dual: Yes Compressor: No

<u>Ownership (No Trust)</u>			<u>Prior Year</u>			<u>Current Year</u>			
	<u>Gas</u>	<u>Oil</u>			<u>Days</u>			<u>Days</u>	
				<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>	<u>MCF/M</u>	<u>BOPM</u>	<u>On</u>
GWl:	67.4570%	64.6688%	Jan	10,214	10.0	31	8,232	31.0	31
GNI:	56.8126%	54.6845%	Feb	9,105	0.0	28	4,433	0.0	28
			Mar	8,219	2.0	31	7,483	0.0	31
<u>Volumes</u>			Apr	1,505	5.0	30	0	0.0	30
<u>(Days: On)</u>	<u>MCFD</u>	<u>BOPD</u>	May	5,609	5.0	31	0	0.0	0
7 Day Avg	294	0.0	Jun	8,806	0.0	30	0	0.0	0
30 Day Avg	228	0.0	Jul	5,382	16.0	31	0	0.0	0
60 Day Avg	235	0.0	Aug	7,528	0.0	31	0	0.0	0
3 Mo Avg	224	0.3	Sept	9,234	0.0	30	0	0.0	0
6 Mo Avg	248	0.5	Oct	8,340	0.0	27	0	0.0	0
12 MoAvg	228	0.3	Nov	7,327	1.0	30	0	0.0	0
			Dec	8,409	53.0	31	0	0.0	0
<u>Volumes</u>			Total	89,678	92.0		20,148	31.0	
<u>(Days: in Month)</u>	<u>MCFD</u>	<u>BOPD</u>							
30 Day Avg	228	0.0							
60 Day Avg	235	0.0							
3 Mo Avg	224	0.3							
6 Mo Avg	242	0.5							
12 Mo Avg	225	0.3							

Print Form

Exit Volumes Data

Print Form

Exit Volumes Data

6/4/93

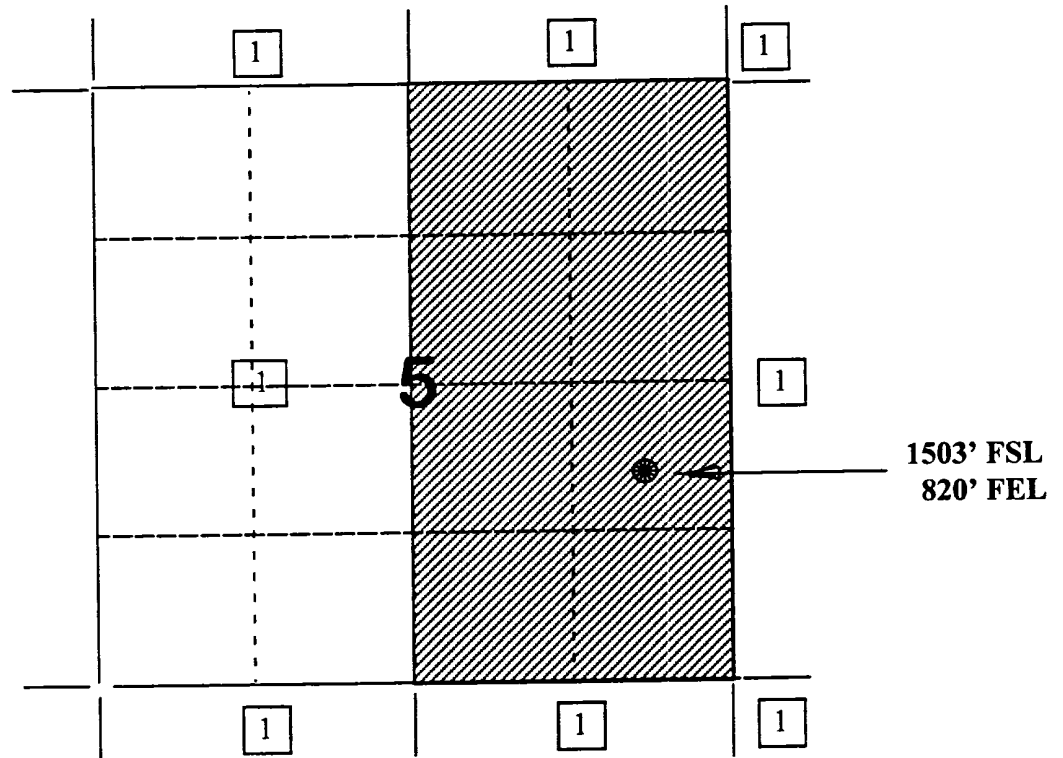
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-5 Unit #61A

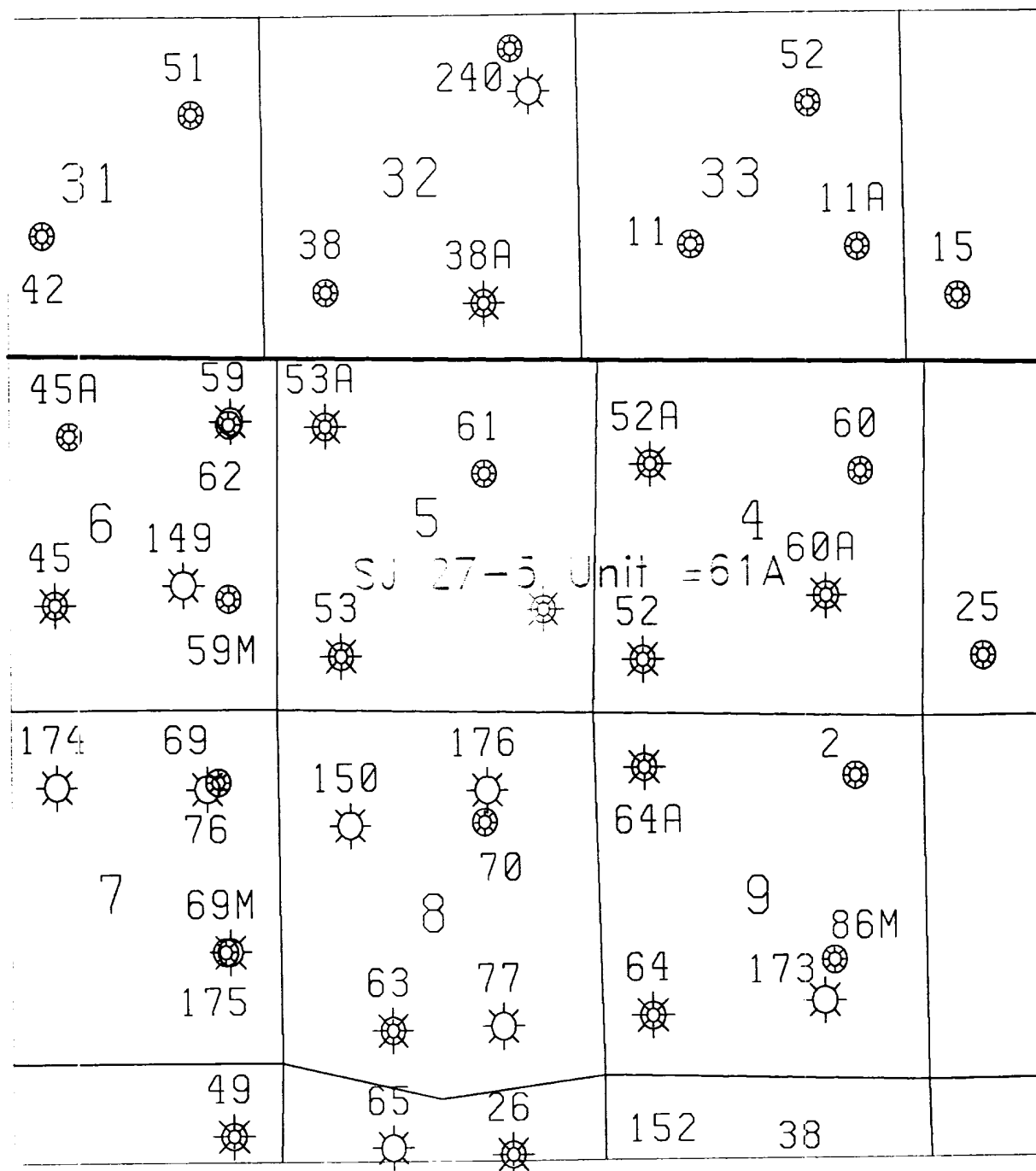
OFFSET OPERATOR/OWNER PLAT

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

Township 27 North, Range 5 West



1) Burlington Resources



PLH 5/27/98

San Juan 27-5 Unit #61A

Sec. 5, T27N, R5W

Pictured Cliffs/Mesaverde

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 11626
ORDER NO. R-10694

APPLICATION OF BURLINGTON RESOURCES
OIL & GAS COMPANY FOR THE ESTABLISHMENT
OF A DOWNHOLE COMMINGLING "REFERENCE
CASE" FOR ITS SAN JUAN 27-5 UNIT PURSUANT
TO DIVISION RULE 303.E AND THE ADOPTION
OF SPECIAL ADMINISTRATIVE RULES THEREFOR,
SAN JUAN COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on October 17 and November 7, 1996, at Santa Fe, New Mexico, before Examiners David R. Catanach and Michael E. Stogner, respectively.

NOW, on this 12th day of November, 1996, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) The applicant, Burlington Resources Oil & Gas Company (Burlington), pursuant to the provisions of Division Rule 303.E., seeks to establish a downhole commingling "reference case" to provide exceptions for (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit, San Juan County, New Mexico.

(3) Division Rule No. 303.E., amended by Order No. R-10470-A, currently states:

- c) establish a "reference case" whereby the Division utilizes the data presented in the immediate case to endorse or approve certain methods of allocating production whereby the applicant need not submit additional data or justification when proposing a certain method of allocating production on Form C-107-A's subsequently filed for wells within the San Juan 27-5 Unit; and.
- d) establish a "reference case" or an administrative procedure for authorizing the downhole commingling of existing or future drilled wells within the San Juan 27-5 Unit without additional notice to each affected interest owner as required by Division Rule No. 303.D.

(7) In support of its request to except marginal economic criteria, the applicant presented geologic and engineering evidence and testimony which indicates that within the San Juan 27-5 Unit:

- a) the structure and thickness of the Dakota and Pictured Cliffs formations are very consistent;
- b) the average recoverable Dakota and Pictured Cliffs gas reserves underlying an undeveloped drill block are approximately 583 MMCFG and 426 MMCFG, respectively;
- c) the average initial producing rate for a newly drilled or recompleted Dakota and Pictured Cliffs gas well is approximately 393 MCFGD and 63 MCFGD, respectively; and,
- d) the estimated ultimate gas recoveries and initial producing rates from the Dakota and Pictured Cliffs formations are insufficient to justify drilling stand alone wells and/or dually completed wells to recover such gas reserves.

(8) The evidence and testimony presented by the applicant indicates that the Dakota and Pictured Cliffs formations within the San Juan 27-5 Unit should be properly classified as "marginal".

(9) In support of its request to except pressure criteria within the Dakota and Pictured Cliffs formations within the San Juan 27-5 Unit, the applicant presented engineering evidence and testimony which indicates that:

- a) the average shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations at the time of initial development were approximately 3,141 psi and 1,118 psi, respectively; and.
- b) the average current shut-in bottomhole pressure within the Dakota and Pictured Cliffs formations are approximately 1,032 psi and 441 psi, respectively.

(10) There is sufficient pressure data available within the San Juan 27-5 Unit so as to except pressure criteria as proposed by the applicant.

(11) The applicant testified that various allocation methods will be utilized for downhole commingled wells within the San Juan 27-5 Unit depending on the circumstances. Some of the methods and circumstances are described as follows:

- a) the subtraction method will likely be utilized in those instances involving the Basin-Fruitland Coal Gas Pool and in those instances where a zone with a well established decline rate is commingled with a newly completed zone;
- b) a fixed allocation formula will be utilized in those instances where production history for both zones is available, or in those instances where newly completed zones are tested and stabilized flow rates obtained.

(12) The allocation methods proposed by the applicant are routinely utilized by industry and approved by the Division and therefore the proposal to except allocation formulas should be approved.

(13) In support of its request to establish a "reference case" or administrative procedure for providing notice within the San Juan 27-5 Unit the applicant presented evidence and testimony which indicates that:

- a) the interest ownership between two zones within a given wellbore in the San Juan 27-5 Unit is generally not common;
- b) pursuant to Division Rule No. 303.D., applicant is currently required to notify all interest owners within the San Juan 27-5 Unit every time a Form C-107-A is submitted to the Division. There is a considerable number of such interest owners within the unit;

- c) providing notice to each interest owner within the San Juan 27-5 Unit of subsequent downhole comminglings is unnecessary and is an excessive burden on the applicant;
- d) the downhole commingling of wells within the San Juan 27-5 Unit Area will benefit working, royalty, and overriding royalty interest owners. In addition, the downhole commingling of wells within the San Juan 27-5 Unit should not violate the correlative rights of any interest owner;
- e) no interest owner appeared at the hearing in opposition to the establishment of a "reference case" or administrative procedure for notice.

(14) An administrative procedure should be established within the San Juan 27-5 Unit for obtaining approval for subsequent downhole commingled wells without notice to Unit interest owners, provided however that, all other provisions contained within Division Rule No. 303.C. are complied with.

(15) Approval of the proposed "reference cases" for marginal economic criteria, pressure criteria, allocation formulas and notice will lessen the burden on the applicant insofar as providing the data required pursuant to Division Rule No. 303.D. and Form C-107-A, will provide the applicant a streamlined method for obtaining downhole commingling approvals within the San Juan 27-5 Unit, and will not violate correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The application of Burlington Resources Oil & Gas Company to establish a "reference case" for (a) marginal economic criteria, (b) pressure criteria, (c) allocation formulas and (d) modification of notification rules on a unit-wide basis for downhole commingling of Dakota, Mesaverde, Fruitland Coal and Pictured Cliffs gas production within existing or future drilled wells within the San Juan 27-5 Unit, San Juan County, New Mexico, is hereby approved.

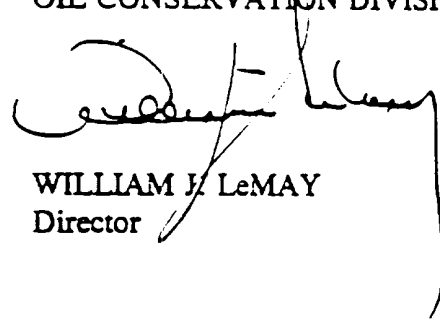
(2) Upon filing of Division Form No. C-107-A's for wells subsequently downhole commingled within the San Juan 27-5 Unit Area, the applicant shall not be required to submit supporting data to justify the classification of the Pictured Cliffs and Dakota formations as "marginal", supporting data to verify the Pictured Cliffs and Dakota pressure information provided, and support or justification for utilizing a given method or formula for allocation of production, provided however, in the event any of the data described above appearing on Form C-107-A appears to be beyond the data range provided in this case, the Division may require the submittal of additional supporting data.

(3) In order to obtain Division authorization to downhole commingle wells within the San Juan 27-5 Unit, the applicant shall file a Form C-107-A with the Santa Fe and Aztec Offices of the Division. Such application shall contain all the information required under Rule No. 303.C. of the Division Rules and Regulations, provided however that the applicant shall not be required to provide notice to all interest owners within the San Juan 27-5 Unit of such proposed commingling.

(4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LeMAY
Director

S E A L