

DISTRICT I

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

DISTRICT II

511 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

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

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator	Address		
SAN JUAN 27-4 UNIT	21	B-30-27N-04W	Rio Arriba
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
Spacing Unit Lease Types: (check 1 or more)			
OGRID NO. 14538	Property Code 7453	API NO. 30-039-06937	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	Pictured Cliffs - 85920		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	3820-3890'		5491-6122'
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	(Current) a. 661 psi (Original) b. 1163 psi	a. JAN 19 1999 b. OIL CON. DIV.	a. 620 psi b. 1338 psi
6. Oil Gravity (°API) or Gas BTU Content	BTU 1214		BTU 1189
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: Rates:	Date: Rates:	Date: Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 10/98 Rates: 38 MCFD	Date: Rates:	Date: 10/98 Rates: 18 MCFD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % To Be Supplied Upon Completion	Oil: % Gas: %	Oil: % Gas: % To 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. 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.
* 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 Jennifer L. Dobson TITLE Production Engineer DATE 01-18-99

TYPE OR PRINT NAME Jennifer L. Dobson TELEPHONE NO. (505) 599-4026

Well Location and Acreage Dedication Plat

Section A.

Date **MARCH 24, 1959**

Operator **EL PASO NATURAL GAS COMPANY** Lease **SAN JUAN 27-4 UNIT** SF **080670**
 Well No. **21 (PM)** Unit Letter **B** Section **30** Township **27-N** Range **4-W** NMPM
 Located **850** Feet From **NORTH** Line, **1800** Feet From **EAST** Line
 County **RIO ARriba** G. L. Elevation **6958** Dedicated Acreage **160 & 320** Acres
 Name of Producing Formation **PICTURED CLIFF & MESA VERDE** Pool **TAPACITO PC EST. & BLANCO MV**

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?

Yes **X** No

2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No If answer is "yes", Type of Consolidation.

3. If the answer to question two is "no", list all the owners and their respective interests below:

Owner

Land Description

MAR 31 1959

Section B.

This is to certify that the information
 in Section A above is true and complete
 to the best of my knowledge and belief.

El Paso Natural Gas Company

(Operator)

Original Signed C. D. COX

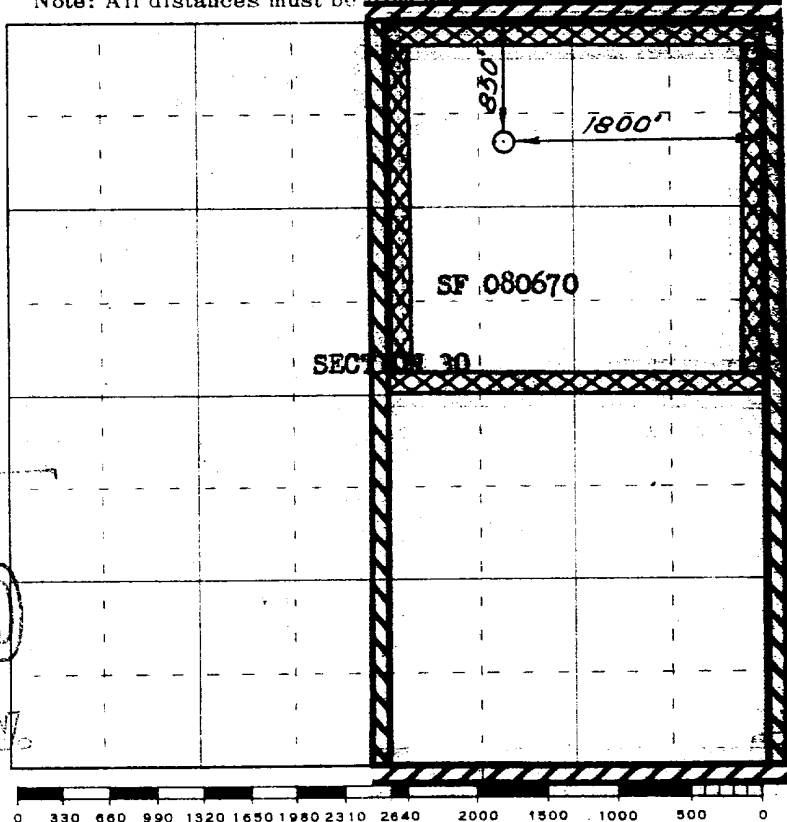
(Representative)

Box 997

(Address)

Farmington, New Mexico

Note: All distances must be from outer boundaries of section.



RECEIVED
 JAN 19 1959
 OIL CON. DIV.
 DIV. 2

Scale 4 inches equal 1 mile

This is to certify that the above plat was prepared from field notes of actual surveys
 made by me or under my supervision and that the same are true and correct to the best
 of my knowledge and belief.

(Seal)

Date Surveyed **MARCH 18, 1959**

David A. Kilner
 Registered Professional Engineer and/or Land Surveyor

Farmington, New Mexico

* OIL
+ WATER/GAS
- GAS
* WATER

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SAN JUAN 27-4 UNIT : 21 : 53315B-1

Mesavirde

2303

— DAILY RATE	
— THE PRESSURE	
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97	97
98	98
99	99
100	100

☐ *WATER Bbls/d
☒ *GAS Mcf/d
☐ *WATER/GAS
☐ *OIL Bbl/d

Major = GAS

FARMINGTON 1998 MONTHLY PRODUCTION FOR 53315B PHS030M
 SAN JUAN 27-4 UNIT 21
 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					01	338	31	1188	15.025	
2	2	F					01	317	28	1188	15.025	
3	2	F					01	404	31	1188	15.025	
4	2	F					01	392	25	1188	15.025	
5	2	F					01	386	28	1188	15.025	
6	2	F					01	373	30	1188	15.025	
7	2	F					01	386	31	1189	15.025	
8	2	F					01	465	31	1189	15.025	
9	2	F					01	329	30	1189	15.025	
10	2	F					01	553	31	1189	15.025	
11												
12												

PF6 - RETURNS TO ANNUAL DISPLAY	PF3 - TRANSFER TO UPDATE
PF10 - HELP INFORMATION	PF9 - DISPLAY MONTHLY INJECTI
00/00/00 00:00:00:0	PRS 12/05/98

FARMINGTON	1998 MONTHLY PRODUCTION FOR 53315A	PHS030M
SAN JUAN 27-4 UNIT	21	
TAPACITO (PICTURED CLIFFS) FIELD	PICTURED CLIFFS 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	1309	31	1202	15.025	
2	2 F	28	02			01	1107	28	1202	15.025	
3	2 F	31	02	7		01	1070	31	1202	15.025	
4	2 F	27	02	7	63.6	01	1278	27	1202	15.025	
5	2 F	28	02	2		01	1264	28	1202	15.025	
6	2 F	30	02	2		01	1245	30	1202	15.025	
7	2 F	31	02	4		01	1320	31	1214	15.025	
8	2 F	31	02	3		01	1271	31	1214	15.025	
9	2 F	30	02	3		01	1135	30	1214	15.025	
10	2 F	31	02	3		01	1181	31	1214	15.025	
11											
12											

PF6 - RETURNS TO ANNUAL DISPLAY	PF3 - TRANSFER TO UPDATE
PF10 - HELP INFORMATION	PF9 - DISPLAY MONTHLY INJECTION
00/00/00 00:00:00:0	PRS 12/05/98

Pictured Cliffs**Mesaverde****PC - Current**

GAS GRAVITY	0.706
COND. OR MISC. (C/M)	C
%N2	0.7
%CO2	0.13
%H2S	0
DIAMETER (IN)	1.995
DEPTH (FT)	3855
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	594
BOTTOMHOLE PRESSURE (PSIA)	661.0

MV-Current

GAS GRAVITY	0.695
COND. OR MISC. (C/M)	C
%N2	0.16
%CO2	0.75
%H2S	0
DIAMETER (IN)	1.995
DEPTH (FT)	5807
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	535
BOTTOMHOLE PRESSURE (PSIA)	619.9

PC - Original

GAS GRAVITY	0.706
COND. OR MISC. (C/M)	C
%N2	0.7
%CO2	0.13
%H2S	0
DIAMETER (IN)	1.995
DEPTH (FT)	3855
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1034
BOTTOMHOLE PRESSURE (PSIA)	1162.8

MV-Original

GAS GRAVITY	0.695
COND. OR MISC. (C/M)	C
%N2	0.16
%CO2	0.75
%H2S	0
DIAMETER (IN)	1.995
DEPTH (FT)	5807
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1137
BOTTOMHOLE PRESSURE (PSIA)	1338.4

Page No.: 1

Print Time: Mon Dec 21 06:36:30 1998

Property ID: 1226

Property Name: SAN JUAN 27-4 UNIT | 21 | 53315A-1 Pictured Cliffs

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP M SIBHP
Mcf Psi Psi

05/19/59	0	1034.0	0.0	PC initial
06/18/59	0	1021.0		
12/29/59	7000	719.0		
05/29/60	33000	706.0		
05/28/61	59000	702.0		
08/06/62	81000	598.0		
01/01/63	0	1021.0	0.0	
04/19/63	92000	608.0		
07/28/64	0	0.0	0.0	
11/23/64	112000	600.0		
05/10/65	116000	612.0		
04/19/66	131000	579.0		
08/04/67	145000	601.0		
05/02/68	152000	628.0		
08/28/70	175590	577.0	0.0	
04/08/71	183346	579.0	0.0	
08/09/72	200359	557.0	0.0	
07/15/74	224453	441.0	0.0	
08/02/78	268968	432.0	0.0	
02/11/84	318876	473.0	0.0	
06/20/84	322235	468.0	0.0	
04/21/86	332255	513.0	0.0	
09/08/89	351547	532.0	0.0	
06/03/91	360135	608.0	0.0	
05/03/93	367351	594.0	0.0	PC current

Page No.: 1

Print Time: Mon Dec 21 10:33:56 1998

Property ID: 576

Property Name: SAN JUAN 27 4 UNIT | 21 | 251-039-27N04W30B00MV

Table Name: C:\ARIES\TEST\TEST.DBF

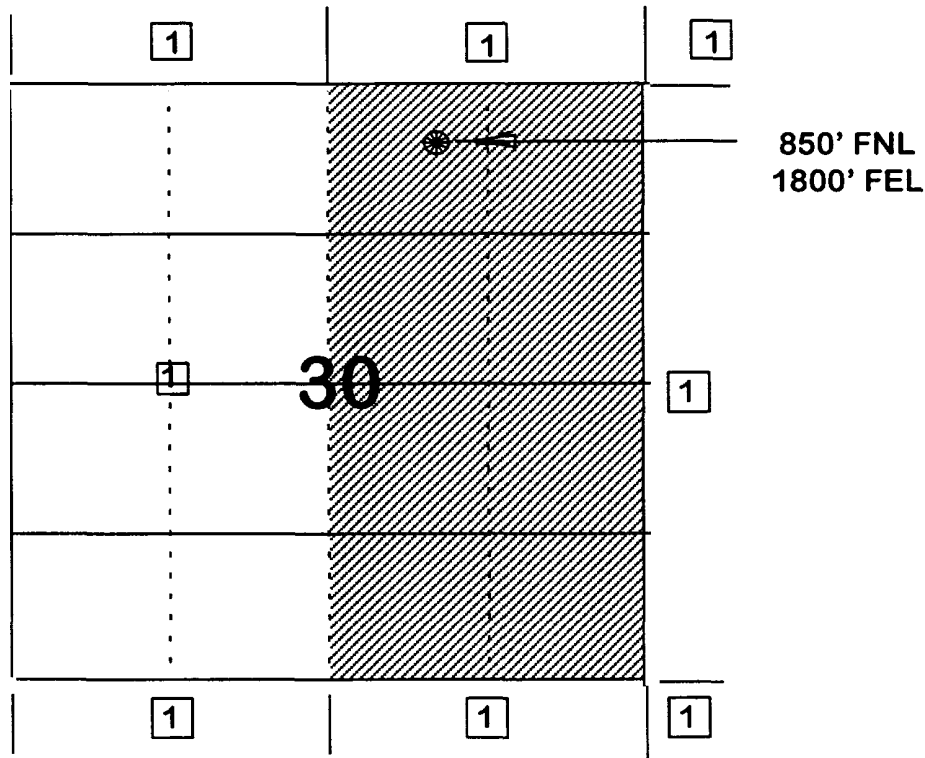
--DATE-- ---CUM GAS-- M SIWHP M SIBHP
Mcf Psi Psi

05/19/59	0	1137.0	<i>MV initial</i>
07/28/64	113701	0.0	
08/28/70	117107	493.0	
04/08/71	120375	505.0	
09/01/72	128632	517.0	
12/06/83	183362	465.0	
04/21/86	193455	484.0	
09/08/89	207186	477.0	
06/03/91	212421	535.0	<i>MV current</i>

OFFSET OPERATOR \ OWNER PLAT
San Juan 27-4 Unit #21

Cliffs (NE/4)/ Mesaverde (E/2) Formations
Commingled well

Township 27 North, Range 4 West



1) Burlington Resources

LALIA S SANCHEZ
3ST NATL BK SANTA FE AGENT
O BANK OF OKLAHOMA AGENT
BOX 1588
LSA OK 74101

BEDROCK LIMITED PARTNERSHIP
PO BOX 36480
ALBUQUERQUE NM 87176

U/W FOSTER MORRELL DEC'D
EDNA E MORRELL LIVG TRUST
C/O NORWEST BANK NEW MEXICO
PO BOX 659566
SAN ANTONIO TX 782659566

NCO GENERAL PARTNERSHIP
BOX 451
BUQUERQUE NM 871030451

DEREK PETER VENEZIA
BANK OF AMERICA
PO BOX 85058
SAN DIEGO CA 921865058

UNION OIL CO OF CALIF
ATTN REVENUE ACCOUNTING
PO BOX 841055
DALLAS TX 752841055

LEANOR G HAND
ANSLEY DR NE
LANTA GA 30309

GERALD F HARRINGTON
BOATMENS NATL BK OF DES MOINES
ATTN TRUST OFFICER PETERSON
PO BOX 817
DES MOINES IA 503040817

HARCO LTD PTSHP
PO BOX 216
ROSWELL NM 88202

MES V HARRINGTON
BOX 13535
BUQUERQUE NM 87192

JOHN C MEADOWS
6053 EXPRESSWAY
JACKSONVILLE FL 32211

JOSEPH R ABRAHAM
5517 WILLOW LN
DALLAS TX 75230

IAN R MONTANO
BOX 241
ERRA AMARILLA NM 87575

LESLIE C TATUM
PO BOX 7392
N KANSAS CITY MO 64116

LMA ROYALTIES LTD
PO BOX 1778
COLORADO SPRINGS CO 809011778

MANUEL A SANCHEZ TRUST
THE FIRST NATL BANK OF SANTA FE
O BANK OF OKLAHOMA AGENT
BOX 1588
ULSA OK 74101

MARY F ROBERTS
PO BOX 15940
SANTA FE NM 87506

MARY JO WELLS
5250 WOODLAWN AVE
CHEVY CHASE MD 20815

MARY JONE CHAPPELL
BOX 11970
LBUQUERQUE NM 87192

MIKE C ABRAHAM TRUSTEE
711 AMHERST DR SE
ALBUQUERQUE NM 87106

MINERALS MANAGEMENT SERVICE
ROYALTY MANAGEMENT PROGRAM
PO BOX 5810
DENVER CO 802175810

MISS M F ABRAHAM
06 FOUR HILLS RD SE
LBUQUERQUE NM 87128

PATRICIA ANN ASHBURN
46 CARIBE WAY
VERO BEACH FL 32963

PATRICIA P SCHIEFFER
C/O J THOMAS SCHIEFFER
1000 BALLPARK WAY #300
ARLINGTON TX 76011

BOBBY F BAKER
575 BELVIDERE APT #125
EL PASO TX 79912

ROBERT P & ANNA D EARNEST TR
KATHLEEN EARNEST RIOS TRUSTEE
2404 LORING #131
SAN DIEGO CA 921092347

ROBERT S TATUM
TATUM FAMILY AGENCY #4269
C/O NATIONS BK OF TX NA
PO BOX 840738
DALLAS TX 752840738

ROMERO FAMILY LTD PARTNERSHIP
ALICIA V ROMERO GEN PARTNER
PO BOX 5155
SANTA FE NM 87502

SCOTT ANTHONY VENEZIA
BANK OF AMERICA
PO BOX 85058
SAN DIEGO CA 921865058

TEMPE LTD PARTNERSHIP
C/O F E & M K HARRINGTON
652 FEARRINGTON POST
PITTSBORO NC 27312

WILLIAM B GREENE
812 GRANDVIEW DRIVE SE
ALBUQUERQUE NM 87108

6/74 • S.J. 27-5 Unit #183 4/192 (ee)	5/68 • S.J. 27-5 Unit #31 13/108 (ee)	INA 10/73 • S.J. 27-4 Unit #84 0/169 (ee)	INA 10/78 • S.J. 27-4 Unit #105 0/180 (ee)	INA 12/67 • S.J. 27-4 Unit #13 0/588 (ee)
[24]	[24]	[19]	[20]	[20]
2/69 • S.J. 27-5 Unit #43 31/490 (ee)	INA 10/73 • S.J. 27-5 Unit #157 0/196 (ee)	INA 11/69 • S.J. 27-4 Unit #23 0/188 (ee)	1/76 • S.J. 27-4 Unit #128 48/622 (ee)	6/80 • S.J. 27-4 Unit #13A 220/1314 (ee)
INA 5/74 • S.J. 27-5 Unit #184 0/34 (ee)	8/68 • S.J. 27-5 Unit #32 38/578 (ee)	9/73 • S.J. 27-4 Unit #85 35/322 (ee)	11/78 • S.J. 27-4 Unit #113 128/950 (ee)	1/69 • S.J. 27-4 Unit #20 80/1063 (ee)
8/68 • S.J. 27-5 Unit #28 220/2877 (ee)	6/74 • S.J. 27-5 Unit #158 20/262 (ee)	9/67 • S.J. 27-4 Unit #12 49/749 (ee)	7/68 • S.J. 27-4 Unit #17 21/438 (ee)	11/78 • S.J. 27-4 Unit #114 10/186 (ee)
5/72 • S.J. 27-5 Unit #136 93/449 (ee)	INA 7/68 • S.J. 27-5 Unit #38 0/606 (ee)	6/74 • S.J. 27-4 Unit #88 22/171 (ee)	10/78 • S.J. 27-4 Unit #90 48/338 (ee)	9/67 • S.J. 27-4 Unit #10 28/487 (ee)
[36] 10/68 • S.J. 27-5 Unit #18 31/1726 (ee)	INA 10/62 • S.J. 27-5 Unit #92 0/283 (ee)	8/66 • S.J. 27-4 Unit #6 42/1405 (ee)	[31]	[32]
R-5-W	R-5-W	R-4-W	R-4-W	10/78 • S.J. 27-4 Unit #8 48/468 (ee)

2/58 • S.J. 27-5 Unit #43 270/521 (ee) [24] 5/58 • S.J. 27-5 Unit #31 4/520 (ee)	11/58 • S.J. 27-4 Unit #23 62/440 (ee) 10/78 • S.J. 27-4 Unit #105 48/472 (ee) [19] 1/75 • S.J. 27-4 Unit #128 96/761 (ee) INA 12/57 • S.J. 27-4 Unit #13 0/2828 (ee) [20] INA 6/80 • S.J. 27-4 Unit #13A 0/145 (ee)	INA 12/57 • S.J. 27-4 Unit #13 0/2828 (ee) [20] 1/75 • S.J. 27-4 Unit #128 96/761 (ee) INA 6/80 • S.J. 27-4 Unit #13A 0/145 (ee)
8/58 • S.J. 27-5 Unit #28 4/520 (ee) 5/58 • S.J. 27-5 Unit #32 62/547 (ee) [25]	10/80 • S.J. 27-4 Unit #25 52/522 (ee) 5/58 • S.J. 27-4 Unit #21 13/243 (ee) [30]	1/58 • J. 27-4 Unit #20 88/2897 [29] 7/58 • S.J. 27-4 Unit #17 24/393 (ee) 10/95 • S.J. 27-4 Unit # 7/271 (ee)
8/58 • S.J. 27-5 Unit #38 28/524 (ee) [36] INA 10/56 • S.J. 27-5 Unit #18 0/271 (ee)	9/80 • S.J. 27-4 Unit #28 56/511 (ee) 1/80 • S.J. 27-4 Unit #4A 93/545 (ee) 11/53 • S.J. 27-4 Unit #4 4/72 (ee)	[32] 9/80 • S.J. 27-4 Unit #108 47/820 (ee) 1/80 • S.J. 27-4 Unit #138 88/589 (ee)

R-5-W

R-4-W

San Juan 27-4 Unit
Interest Owners

NAME

AMALIA S SANCHEZ
BEDROCK LIMITED PARTNERSHIP
BURLINGTON RESOURCES O&G CO
CINCO GENERAL PARTNERSHIP
DEREK PETER VENEZIA
EDNA E MORRELL LIVG TRUST
ELEANOR G HAND
GERALD F HARRINGTON
HARCO LTD PTSHP
JAMES V HARRINGTON
JOHN C MEADOWS
JOSEPH R ABRAHAM
JUAN R MONTANO
LESLIE C TATUM
LMA ROYALTIES LTD
MANUEL A SANCHEZ TRUST
MARY F ROBERTS
MARY JO WELLS
MARY JONE CHAPPELL
MIKE C ABRAHAM TRUSTEE
MINERALS MANAGEMENT SERVICE
MISS M F ABRAHAM
PATRICIA ANN ASHBURN
PATRICIA P SCHIEFFER
ROBBYE F BAKER
ROBERT P & ANNA D EARNEST TR
ROBERT S TATUM
ROMERO FAMILY LTD PARTNERSHIP
SCOTT ANTHONY VENEZIA
TEMPE LTD PARTNERSHIP
U/W FOSTER MORRELL DECD
UNION OIL CO OF CALIF
WILLIAM B GREENE