

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

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

APPROVAL PROCESS :
☒ Administrative ☐ Hearing

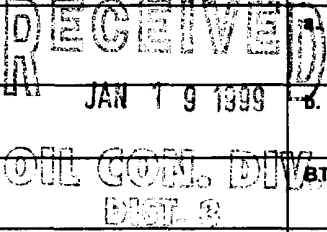
APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE
☒ YES ☐ NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator	Address		
SAN JUAN 27-4 UNIT	46	H-31-27N-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 7452	API NO. 30-39-20128	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	Blanco Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	5392-5908'(anticipated upon completion)		7814-8032'
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	a. (Current) a. 633 psi b. (Original) b. 1380 psi	a.  b.	a. 1149 psi b. 3150 psi
6. Oil Gravity (°API) or Gas BTU Content	BTU 1229		BTU 1230
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: n/a Rates:	Date: Rates:	Date: 10/98 Rates: 59 MCFD
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

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

MEXICO OIL CONSERVATION COMMISSION
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

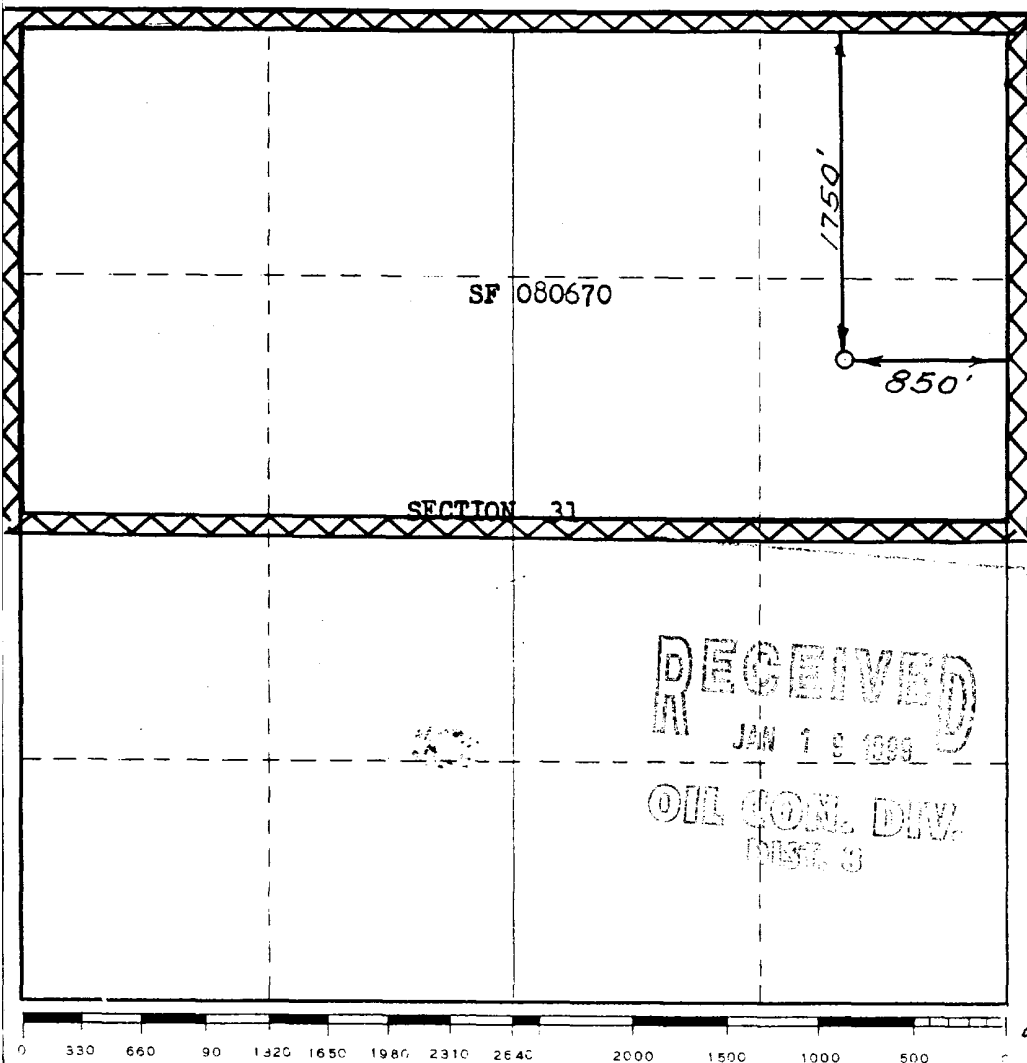
Operator EL PASO NATURAL GAS CO.		Lease SAN JUAN 27-4 UNIT		SF 080670	Well No. 46
Dist. Letter H	Section 31	Township 27 NORTH	Range 4 WEST	County RIO ARriba	
Actual Well Location of Well:					
1750 feet from the NORTH line and		850 feet from the EAST line			
Ground Level Elev. 6816	Producing Formation DAKOTA	Pool BASIN DAKOTA	Dedicated Acreage: 321.16 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.



CERTIFICATION

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

Original signed by
Carl E. Matthews

Name

Petroleum Engineer

Position

El Paso Natural Gas Company

Company

August 1, 1968

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 1, 1968

Registered Professional Engineer
and/or Land Surveyor

Paul O. [Signature]

Certificate No.

1760

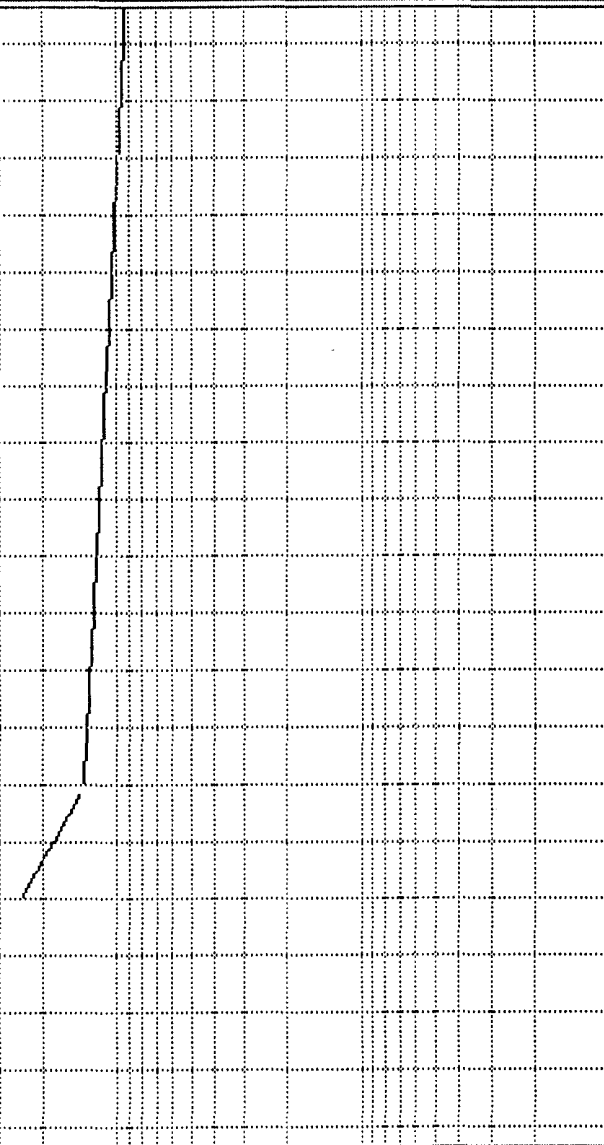
SAN JUAN 27-4 UNIT : 46 : 69641-1 Projected Mesaverde

• OIL
• WATER/GAS
• GAS
• WATER

100
1000
1000
1000
10
10
10
1
0.1
1
1
1
1

— DAILY RATE
— TBG PRESSURE

97 98 99 00 01 02 03 04 05 06



			DAYS =====		OIL =====		=====		GAS =====			
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER PROD
1	2	G	31	02	32		01	2533	31	1183	15.025	
2	2	G	28	02	1		01	116	28	1183	15.025	
3	2	G	31	02	52		01	3986	31	1183	15.025	
4	2	G	30	02	15		01	2105	30	1183	15.025	
5	2	F	28	02	33	56.5	01	3377	28	1183	15.025	
6	2	F	30	02	8		01	2278	30	1183	15.025	
7	2	F	31	02	3		01	2140	31	1230	15.025	
8	2	F	31	02	14		01	2160	31	1230	15.025	
9	2	F	30	02	13		01	2059	30	1230	15.025	
10	2	F	31	02	12		01	1815	31	1230	15.025	
11	2	F					01	3927		1230	15.025	
12												

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION
PRS 01/06/99

00/00/00 00:00:00:0

Page No.: 1

Print Time: Mon Jan 11 07:34:50 1999

Property ID: 1260

Property Name: SAN JUAN 27-4 UNIT | 4A | 49507A-1 - Mesaverde (offset to SJ27-4U-

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

--DATE-- ---CUM_GAS-- M SIWHP

-----Mcf-----Psi-----

01/02/80	0	1165.0 - Initial Pressure
07/07/80	49647	790.0
02/23/82	164561	630.0
11/05/82	208349	637.0
11/01/84	276100	617.0
10/17/86	332988	589.0
10/04/89	426183	542.0
08/20/91	446082	596.0
09/19/91	449675	608.0
07/30/93	498129	544.0 - Current Pressure

Page No.: 1

Print Time: Mon Jan 11 07:23:35 1999

Property ID: 1256

Property Name: SAN JUAN 27-4 UNIT | 46 | 51787A-1-Dakota

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

--DATE-- ---CUM GAS-- M SIWHP

-----Mcf-----Psi

09/17/68	0	2485.0	- Initial Pressure
05/05/69	28516	1259.0	
10/23/70	134701	1031.0	
04/08/71	158001	1028.0	
08/09/72	220948	1045.0	
06/24/75	329623	1074.0	
07/06/77	414464	989.0	
10/08/79	501471	876.0	
04/20/81	557613	886.0	
09/19/83	623227	1057.0	
11/05/85	680512	922.0	
10/11/88	762384	1002.0	
06/08/90	816214	1002.0	
05/28/92	865115	924.0	- Current Pressure

Mesaverde**Dakota****MV - Current****DK-Current**

GAS GRAVITY	0.722
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	0.8
%H2S	0
DIAMETER (IN)	1.995
DEPTH (FT)	5650
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	145
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	544
BOTTOMHOLE PRESSURE (PSIA)	632.6

GAS GRAVITY	0.724
COND. OR MISC. (C/M)	C
%N2	0.19
%CO2	0.92
%H2S	0
DIAMETER (IN)	1.995
DEPTH (FT)	7923
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	185
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	924
BOTTOMHOLE PRESSURE (PSIA)	1148.7

MV - Original**DK-Original**

GAS GRAVITY	0.722
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	0.8
%H2S	0
DIAMETER (IN)	1.995
DEPTH (FT)	5650
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	145
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1165
BOTTOMHOLE PRESSURE (PSIA)	1380.0

GAS GRAVITY	0.724
COND. OR MISC. (C/M)	C
%N2	0.19
%CO2	0.92
%H2S	0
DIAMETER (IN)	1.995
DEPTH (FT)	7923
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	185
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2485
BOTTOMHOLE PRESSURE (PSIA)	3150.4

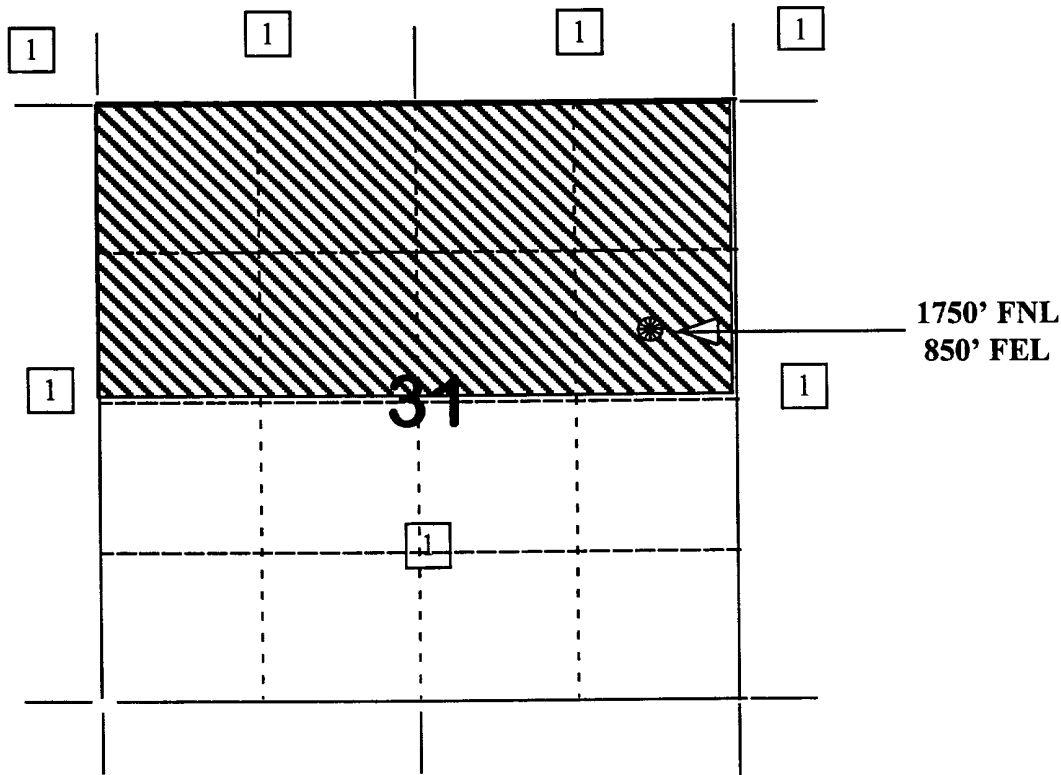
Mesaverde pressures determined using the offset San Juan 27-4 Unit #4A.

San Juan 27-4 Unit #46

OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources

MALIA S SANCHEZ
1ST NATL BK SANTA FE AGENT
O BANK OF OKLAHOMA AGENT
O BOX 1588
ULSA OK 74101

BEDROCK LIMITED PARTNERSHIP
PO BOX 36480
ALBUQUERQUE NM 87176

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

NCO GENERAL PARTNERSHIP
O 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

JEANOR 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
O BOX 13535
BUQUERQUE NM 87192

JOHN C MEADOWS
6053 EXPRESSWAY
JACKSONVILLE FL 32211

JOSEPH R ABRAHAM
5517 WILLOW LN
DALLAS TX 75230

JAN R MONTANO
O 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
HE FIRST NATL BANK OF SANTA FE
O BANK OF OKLAHOMA AGENT
O 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
O 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

ROBBYE 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

[25] 8/58 • S.J. 27-4 Unit #28 32/620 (98)	10/60 • S.J. 27-4 Unit #25 52/622 (98)	5/59 • S.J. 27-4 Unit #21 13/243 (98) [30] 1/59 • S.J. 27-4 Unit #20 88/2897 (98) [29]
7/58 • S.J. 27-5 Unit #38 28/524 (98) [36] INA 10/58 • S.J. 27-5 Unit #18 0/271 (91) 6/96 • S.J. 27-5 Unit #148 87/102 (98) 1/87	11/53 • S.J. 27-4 Unit #4 4/72 (98) ④ SS 27-4446 [31] 9/60 • S.J. 27-4 Unit #26 50/511 (98) 1/80 • S.J. 27-4 Unit #4A 93/645 (98)	11/53 • S.J. 27-4 Unit #17 24/393 (98) 7/58 • S.J. 27-4 Unit #20A 7/271 (98) [32] 9/80 • S.J. 27-4 Unit #108 47/820 (98) 1/80 • S.J. 27-4 Unit #136 88/589 (98)
Jicarilla 150 #1A 36/308 (98) 9/54 • Jicarilla 150 #1 2/1139 (98) [11] 3/80 • Jicarilla 150 #9A 192/794 (98)	6/57 • Jicarilla 119 N #5 47/1348 (98) 9/76 • Jicarilla 119 N #5A 68/723 (98) [6] 8/82 • Jicarilla 119 N #4A 73/439 (98) 2/57 • Jicarilla 119 N #4 8/782 (98)	7/78 • Hoyt #3A 23/433 (98) [5] 2/84 • Hoyt #2 38/771 (98) 12/77 • Hoyt #2A 44/581 (98)

R-4-W

R-5-W

12/86 • S.J. 27-5 Unit #127 181/863 (ee) 6/71 • S.J. 27-5 Unit #127 112/1173 (ee) [25]	9/74 • S.J. 27-5 Unit #190 185/1893 (ee) 7/74 • S.J. 27-4 Unit #49 210/2613 (ee) [30]	10/68 • S.J. 27-4 Unit #63 107/1303 (ee) 10/68 • S.J. 27-4 Unit #52 101/1169 (ee) [29] 10/68 • S.J. 27-4 Unit #51 84/1179 (ee)
6/72 • S.J. 27-5 Unit #146 24/630 (ee) 11/70 • Jioarilla 150 #9 13/461 (ee) 9/84 • Jioarilla 150 #1E 91/404 (ee) 10/70 • Jioarilla 150 #1 122/1081 (ee) [36]	6/96 • S.J. 27-5 Unit #147 140/1696 (ee) 9/68 • S.J. 27-4 Unit #46 77/1073 (ee) 6/84 • Northwest #3 78/1764 (ee) 2/81 • 52/428 (ee) 7/86 • Jioarilla 119 N #4E 88/265 (ee) [6]	10/88 • S.J. 27-4 Unit #54 74/968 (ee) 10/81 • S.J. 27-4 Unit #30 102/1812 (ee) 12/79 • Hoyt #1E 130/1447 (ee) 2/84 • Hoyt #2 73/1720 (ee) 2/84 • Hoyt #1 138/2645 (ee) 12/84 • Hoyt #2E 131/792 (ee) [5]

R-5-W

R-4-W