

DATE IN 2/27/98	SUSPENSE 3/19/98	ENGINEER DC	LOGGED W	TYPE DHC
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4/13/98

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

1902

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]

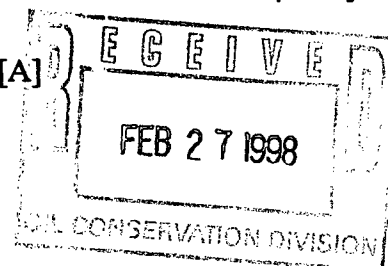
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

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

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement
☒ 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] ☒ 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 Bradfield
Print or Type Name

Signature

Regulatory/Compliance Administrator

Title

Date

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 87505-6429Form C-107-A
New 3-12-96

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

San Juan 27-4 Unit

53M

J 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 7452 API NO. 30-039-not assigned 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)	will be supplied upon completion		will be supplied upon completion
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. 689 psi (see attachment) (Original) b. 1371 psi (see attachment)	a. b.	a. 1245 psi (see attachment) b. 3179 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1184		BTU 1226
7. Producing or Shut-In?	shut in		shut in
Production Marginal? (yes or no)	no		yes
* If Shut-in and oil/gas/water rates of last production <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	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: 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: %	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 ☐ 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 ☐ No15. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(C). ☐ attached

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 Sean Woolverton TITLE: Production Engineer DATE: 02-23-98TYPE OR PRINT NAME Sean Woolverton TELEPHONE NO. (505) 326-9700

~~District I~~
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-10:
Revised February 21, 1997
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name			6 Well Number
		SAN JUAN 27-4 UNIT			# 53M
7 OGRID No.		8 Operator Name			9 Elevation
		BURLINGTON RESOURCES OIL & GAS COMPANY			6733

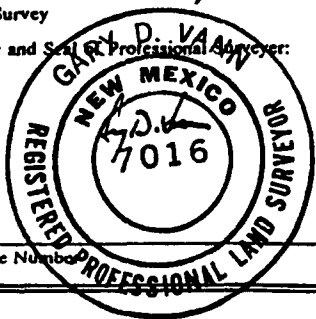
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	30	27 N	4 W		2005	SOUTH	1595	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

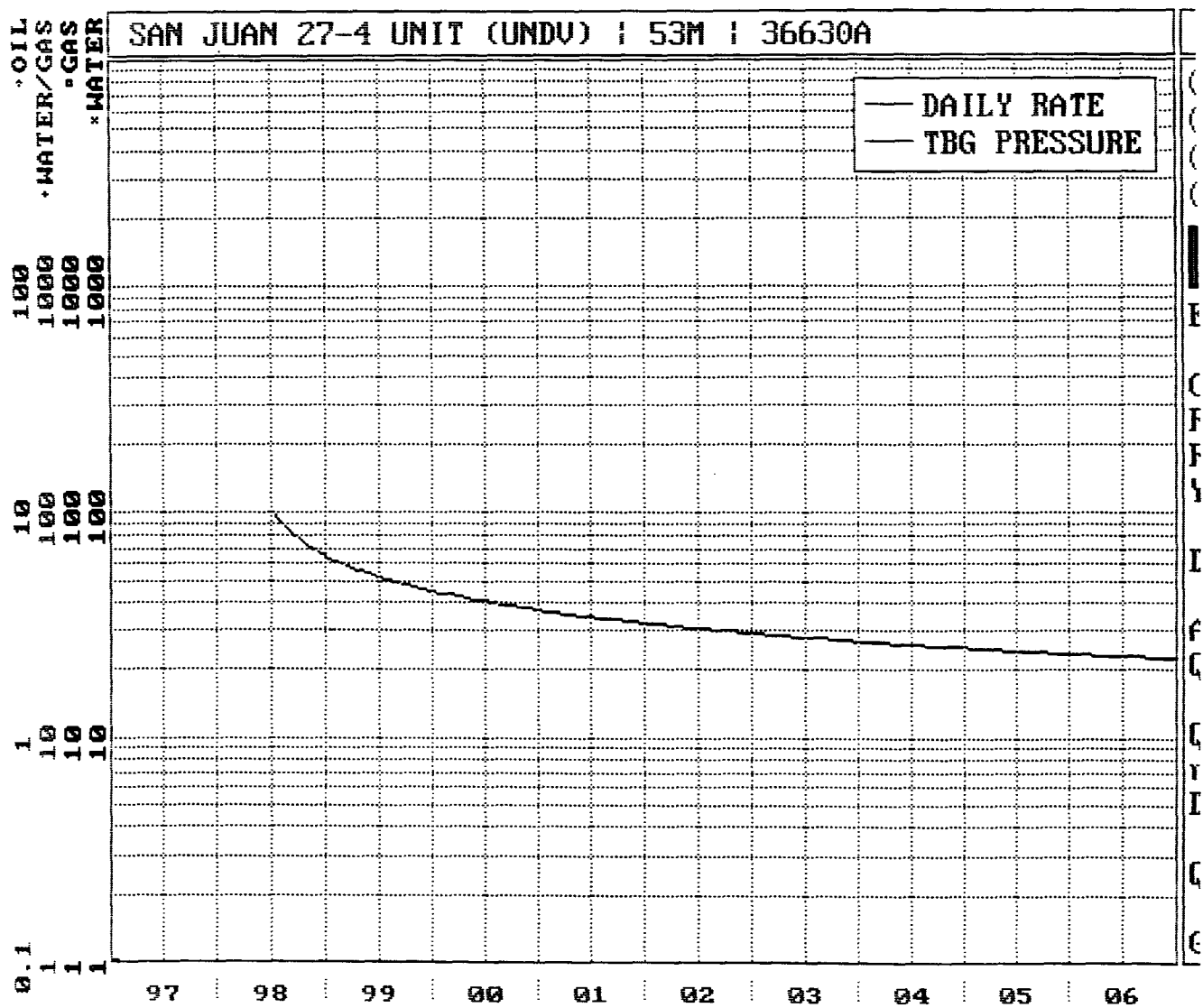
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

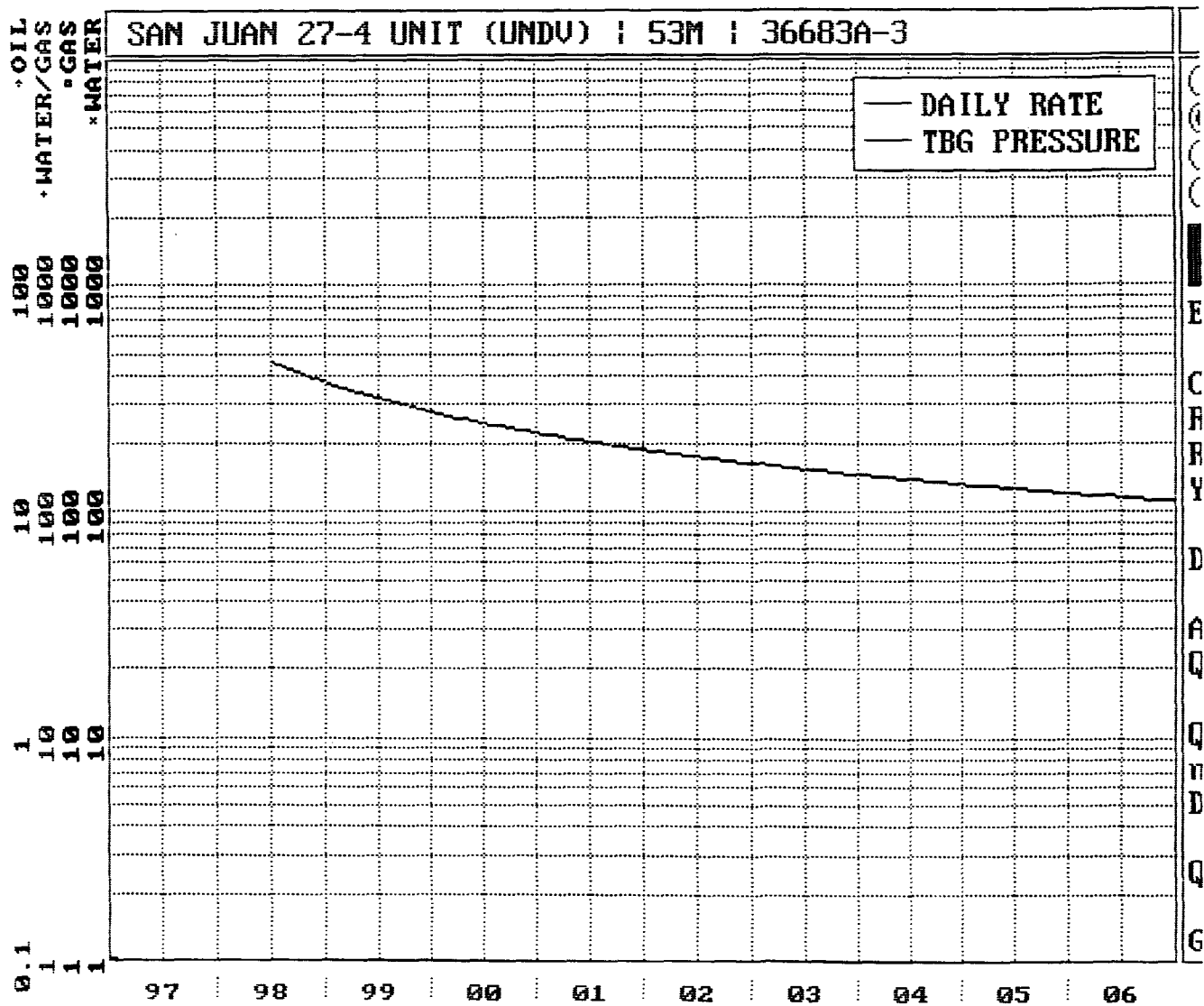
BLM RECORD 5196.84'	16 Lot 1	30	NMSF-080670	5280'(R)	5293'(R)	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature _____ Printed Name _____ Title _____ Date _____
	Lot 2					
	Lot 3					
	Lot 4					
						18 SURVEYOR CERTIFICATION 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 belief. November 21, 1997 Date of Survey Signature and Seal of Professional Surveyor:  7016 Certificate Number

(R) - GLO RECORD 5292'(R)

San Juan 27-4 Unit #53M
Expected Production Curve
Blanco Mesaverde



San Juan 27-4 Unit #53M
Expected Production Curve
Basin Dakota



SJ 27-4 Unit #53M
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.692	GAS GRAVITY	0.724
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.25	%N2	0.38
%CO2	0.77	%CO2	0.98
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5874	DEPTH (FT)	8159
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)	592	SURFACE PRESSURE (PSIA)	996
BOTTOMHOLE PRESSURE (PSIA)	689.2	BOTTOMHOLE PRESSURE (PSIA)	1244.7
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.692	GAS GRAVITY	0.724
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.25	%N2	0.38
%CO2	0.77	%CO2	0.98
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.375
DEPTH (FT)	5874	DEPTH (FT)	8159
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)	1159	SURFACE PRESSURE (PSIA)	2503
BOTTOMHOLE PRESSURE (PSIA)	1370.7	BOTTOMHOLE PRESSURE (PSIA)	3178.6

Page No.: 1

Print Time: Mon Jan 19 11:36:05 1998

Property ID: 3788

Property Name: SAN JUAN 27-4 UNIT | 17 | 53312B-1

Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP

■■■■■ Psi ■■■■

San Juan 27-4 Unit #53M

Mesaverde offset

07/10/58	1159.0	-original
07/31/58	1146.0	
09/22/59	659.0	
05/29/60	639.0	
05/28/61	665.0	
08/06/62	602.0	
04/19/63	626.0	
07/02/64	673.0	
05/10/65	564.0	
04/19/66	561.0	
05/16/67	570.0	
09/23/68	584.0	
08/28/70	563.0	
04/08/71	547.0	
08/09/72	582.0	
04/21/86	530.0	
09/08/89	538.0	
06/03/91	604.0	
06/17/91	592.0	-current

Page No.: 1
Print Time: Mon Jan 19 11:36:21 1998
Property ID: 1644
Property Name: SAN JUAN 27-4 UNIT | 52 | 51795A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE-- M SIWHP
■■■■■■■■■■ ■■■■Psi■■■

San Juan 27-4 Unit #53M

Dakota Offset

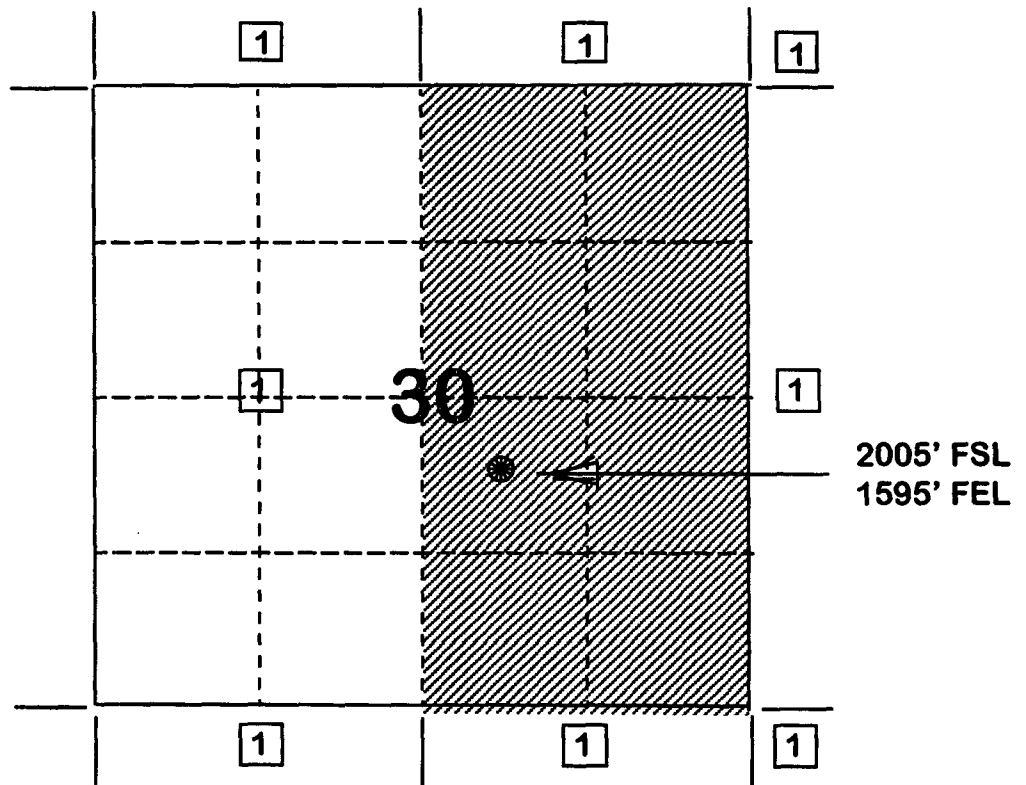
10/29/68	2503.0	-original
06/13/69	1505.0	
09/28/70	1013.0	
05/18/71	992.0	
06/13/72	777.0	
06/24/75	854.0	
07/06/77	954.0	
05/29/80	1132.0	
11/03/81	1222.0	
09/19/83	1370.0	
05/20/85	910.0	
10/16/88	992.0	
06/06/90	795.0	
11/16/92	996.0	-current

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-4 Unit #53M
OFFSET OPERATOR \ OWNER PLAT**

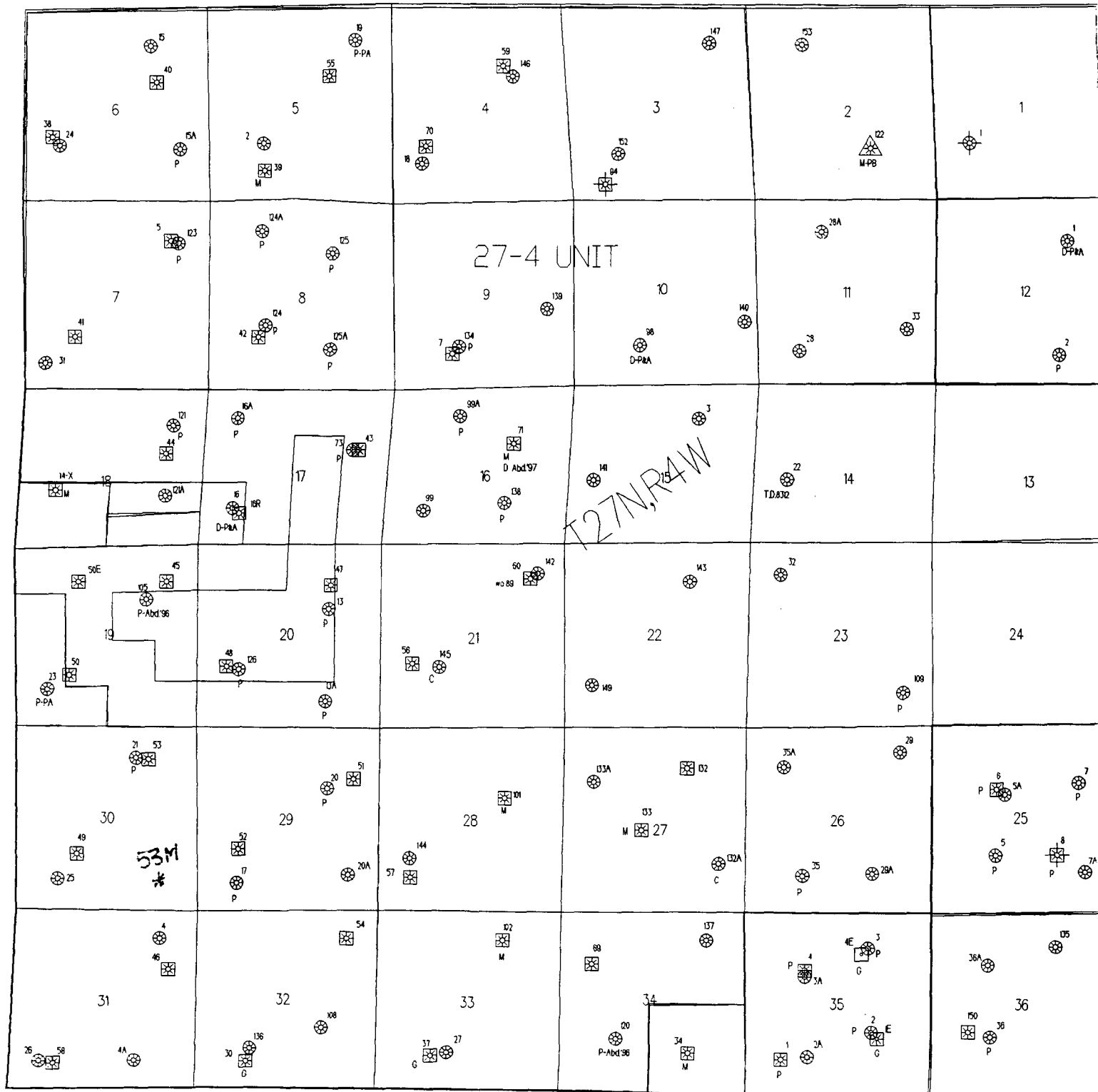
Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources

San Juan 27-4 Unit #53M
Blanco Mesaverde/ Basin Dakota
27N-4W-30P



02/24/98

J-I-B SCHEDULE

LWR270NL

INQUIRE

<WELLSTAT

WELL: 35538A SAN JUAN 27-4 UNIT 37M

=====

CO-OWNER	BILLING %	TOTAL %
-----	-----	-----
028359 CINCO GENERAL PARTNERSHIP	12.359707	
028873 BEDROCK LIMITED PARTNERSHIP	.923260	
029669 TEMPE LTD PARTNERSHIP	.923260	
030573 HARCO LTD PTSHP	.923258	
105291 JAMES V HARRINGTON	.923258	
105292 MARY JONE CHAPPELL	.923259	
999810 BURLINGTON RESOURCES OIL & GAS	83.023998	
		100.000000

ENTER=NEXT PAGE

PF11=PAGE BACK

PF12=MENU

PF24=HELP

Catanach, David

From: Peggy Bradfield[SMTP:pbradfield@br-inc.com]
Reply To: pbradfield@br-inc.com
Sent: Monday, March 23, 1998 2:47 PM
To: Catanach, David
Subject: re: DHC Application-SJ 27-4 Unit No. 53M

David, no reference case. Sorry that I made you look. Am faxing to you a list of the interest owners which we are notifying now. Sorry for the inconvenience.

Original Text

From: "Catanach, David" <DCATANACH@state.nm.us>, on 3/23/98 2:45 PM:

Peggy,

Did we do a reference case for the SJ 27-4 Unit? I have not been able to find it. If we did not, did you notify interest owners, your application states that you did not. Please Advise.

Sincerely,

David Catanach

Restart Waiting period

Catanach, David

From: Catanach, David
Sent: Monday, March 23, 1998 1:45 PM
To: 'Peggy Bradfield'
Subject: DHC Application-SJ 27-4 Unit No. 53M

Peggy,

Did we do a reference case for the SJ 27-4 Unit? I have not been able to find it. If we did not, did you notify interest owners, your application states that you did not. Please Advise.

Sincerely,

David Catanach

U/W FOSTER MORRELL DECD
C/O NORWEST BK NEW MEXICO NA
PO BOX 659566
SAN ANTONIO, TX 78265-9566

UNION OIL CO OF CALIF
ATTN REVENUE ACCOUNTING
PO BOX 841055
DALLAS, TX 75284-1055

WILLIAM B GREENE
812 GRANDVIEW DRIVE SE
ALBUQUERQUE, NM 87108

To: David Catonell
505-827-8177

Interest owners for SQ 27-4 Unit
53M OMC app.

from: Peggy Shuman

2 pages
3-23-98

AMALIA S SANCHEZ
FIRST NATL BK SANTA FE AGENT
C/O BANK OF OKLAHOMA AGENT
PO BOX 1588
TULSA, OK 74101

BEDROCK LIMITED PARTNERSHIP
PO BOX 36480
ALBUQUERQUE, NM 87176

BURLINGTON RESOURCES O&G CO
801 CHERRY ST
FORT WORTH, TX 76102

CINCO GENERAL PARTNERSHIP
PO BOX 451
ALBUQUERQUE, NM 87103-0451

DEREK PETER VENEZIA
BANK OF AMERICA
PO BOX 85058
SAN DIEGO, CA 92186-5058

EDNA E MORRELL LIVG TRUST
C/O NORWEST BK NEW MEXICO NA
PO BOX 659566
SAN ANTONIO, TX 78265-9566

ELEANOR G HAND
9 ANSLEY DR NE
ATLANTA, GA 30309

GERALD F HARRINGTON
BOATMENS NATL BK - DES MOINES
ATTN TRUST OFFICER PETERSON
PO BOX 817
DES MOINES, IA 50304-0817

HARCO LTD PTSHP
PO BOX 216
ROSWELL, NM 88202

JAMES V HARRINGTON
PO BOX 13535
ALBUQUERQUE, NM 87192

JOHN C MEADOWS
6053 EXPRESSWAY
JACKSONVILLE, FL 32211

JOSEPH R ABRAHAM
5517 WILLOW LN
DALLAS, TX 75230

JUAN R MONTANO
PO BOX 241
TIERRA AMARILLA, NM 87575

LESLIE C TATUM
PO BOX 7392
N KANSAS CITY, MO 64116

LMA ROYALTIES LTD
PO BOX 1778
COLORADO SPRINGS, CO 80901-1778

MANUEL A SANCHEZ TRUST
THE FIRST NATL BANK OF SANTA FE
C/O BANK OF OKLAHOMA AGENT
PO BOX 1588
TULSA, 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
PO BOX 11970
ALBUQUERQUE, NM 87192

MIKE C ABRAHAM TRUSTEE
711 AMHERST DR SE
ALBUQUERQUE, NM 87106

MINERALS MANAGEMENT SERVICE
ROYALTY MANAGEMENT PROGRAM
PO BOX 5810
DENVER, CO 80217-5810

MISS M F ABRAHAM
906 FOUR HILLS RD SE
ALBUQUERQUE, 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

ROBBY F BAKER
1575 BELVIDERE APT #125
EL PASO, TX 79912

ROBERT P & ANNA D EARNEST TR
KATHLEEN EARNEST RIOS TRUSTEE
2404 LORING #131
SAN DIEGO, CA 92109-2347

ROBERT S TATUM
TATUM FAMILY AGENCY #4269
C/O NATIONS BK OF TX NA
PO BOX 840738
DALLAS, TX 75284-0738

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 92186-5058

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