

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

56M

D 21-27N-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. 639 psi (see attachment) (Original) b. 1305 psi (see attachment)		a. 1268 psi (see attachment) b. 3099 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1169		BTU 1174
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 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 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 ☐ 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 Sean Woolverton TITLE: Reservoir Engineer DATE: 06-29-98TYPE 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			# 56M
7 OGRID No.		8 Operator Name			9 Elevation
		BURLINGTON RESOURCES OIL & GAS COMPANY			7195

10 Surface Location

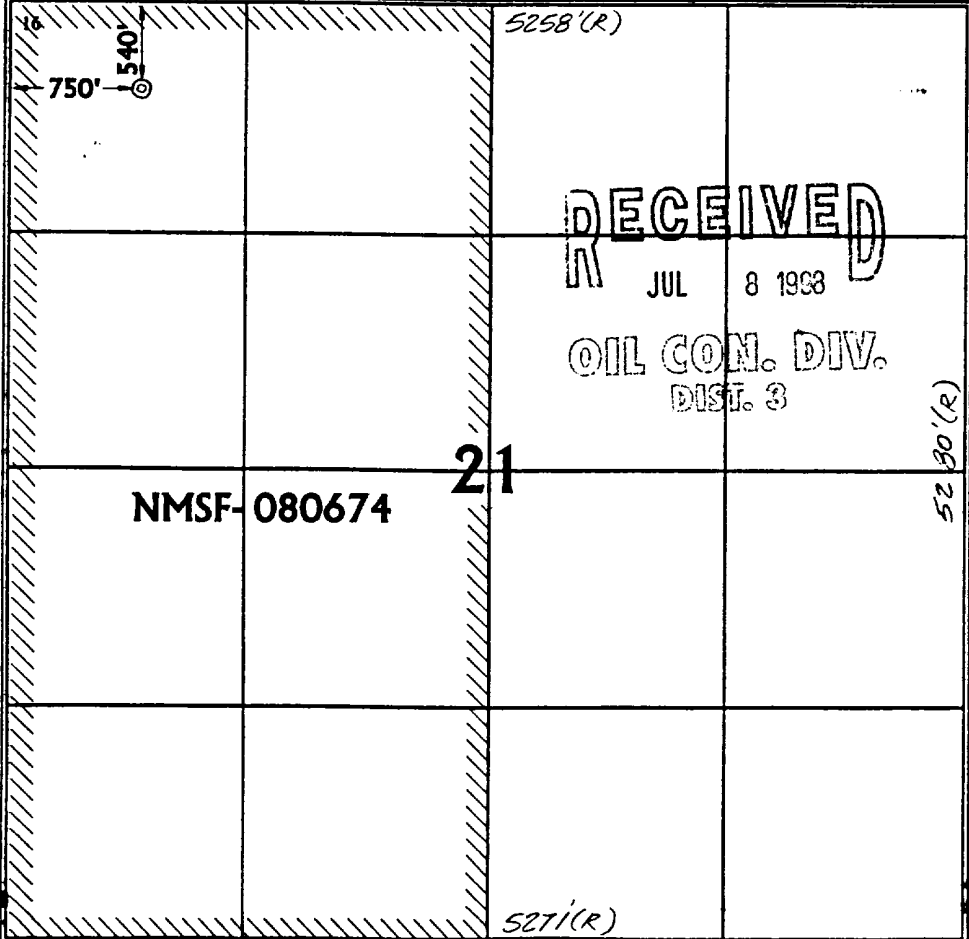
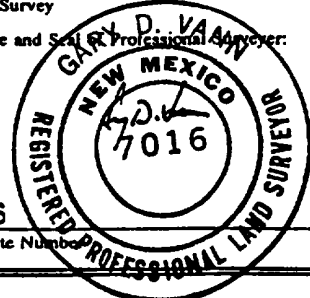
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	27 N	4 W		540	NORTH	750	WEST	RIO ARriba

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

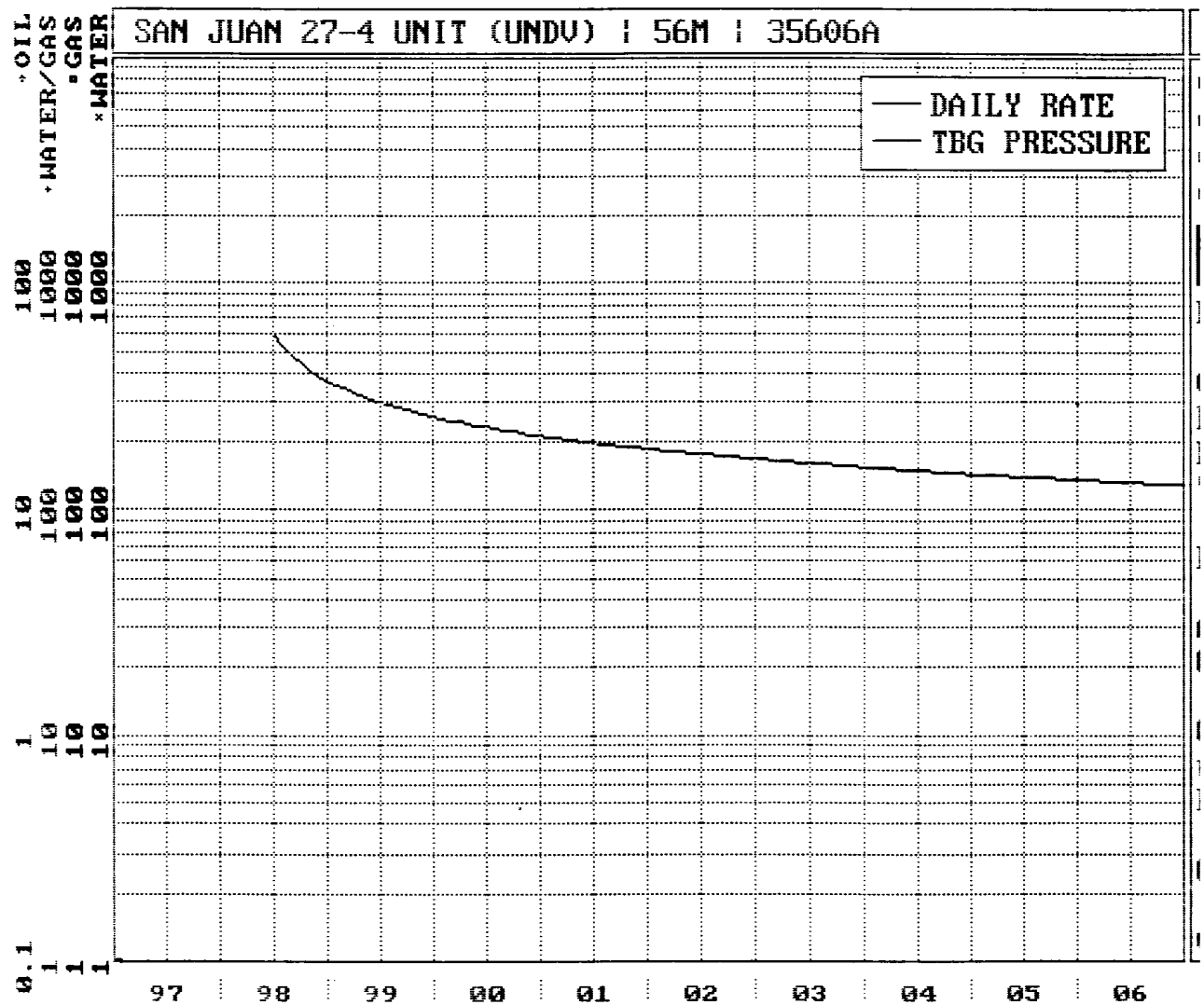
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.

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

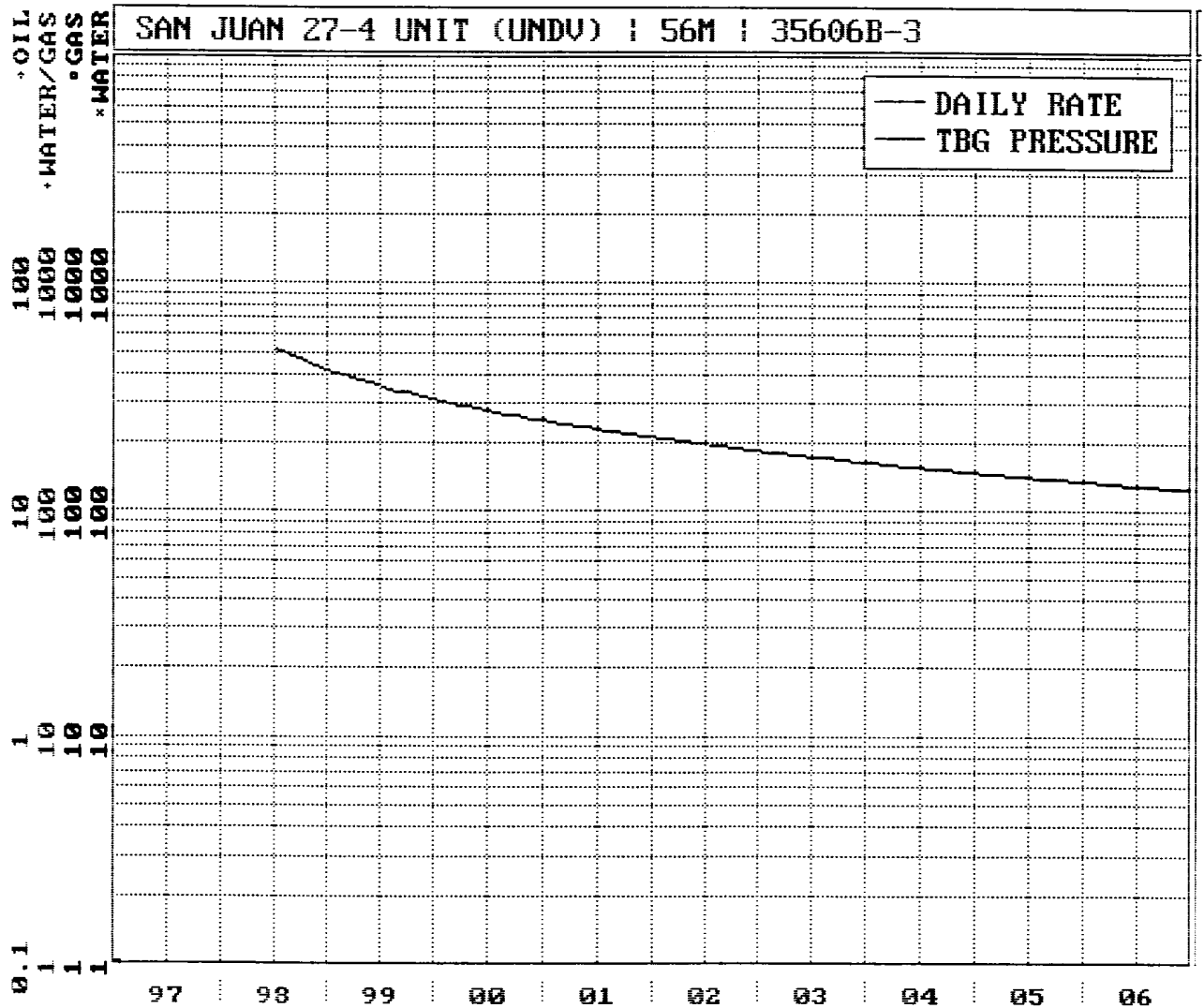
		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
		Signature _____ Printed Name _____ Title _____ Date _____	
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from 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 25, 1997 Date of Survey Signature and Seal of Professional Surveyor: 	
7016 Certificate Number			

(R) - GLO RECORD

San Juan 27-4 Unit #56M
Expected Production Curve
Blanco Mesaverde



San Juan 27-4 Unit #56M
Expected Production Curve
Basin Dakota



SJ 27-4 Unit #56M
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	0.683	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.18	%N2	1.03
%CO2	0.82	%CO2	1.19
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.875
DEPTH (FT)	5906	DEPTH (FT)	7842
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)	550	SURFACE PRESSURE (PSIA)	1032
BOTTOMHOLE PRESSURE (PSIA)	638.6	BOTTOMHOLE PRESSURE (PSIA)	1267.5
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.683	GAS GRAVITY	0.701
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.18	%N2	1.03
%CO2	0.82	%CO2	1.19
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2.875
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BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1107	SURFACE PRESSURE (PSIA)	2490
BOTTOMHOLE PRESSURE (PSIA)	1304.7	BOTTOMHOLE PRESSURE (PSIA)	3099.2

Page No.: 1
Print Time: Mon Jan 19 13:22:24 1998
Property ID: 3762
Property Name: SAN JUAN 27-4 UNIT | 13 | 53306A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

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

San Juan 27-4 Unit #56m
mesaverde Offset

12/12/57	1107.0	-original
04/28/58	1106.0	
09/14/58	778.0	
09/22/59	757.0	
03/06/60	860.0	
05/28/61	780.0	
08/06/62	763.0	
07/16/63	753.0	
10/22/64	726.0	
05/10/65	702.0	
04/19/66	699.0	
05/16/67	666.0	
05/02/68	551.0	
05/29/69	653.0	
08/28/70	642.0	
04/08/71	625.0	
08/09/72	552.0	
08/20/73	572.0	
08/01/74	636.0	
07/21/76	543.0	
01/08/78	639.0	
11/08/78	639.0	
06/23/80	614.0	
11/01/82	671.0	
06/05/84	689.0	
04/21/86	544.0	
09/18/89	530.0	
03/18/91	441.0	
09/11/91	453.0	
05/03/93	550.0	-current

Page No. : 1

Print Time: Mon Jan 19 13:23:00 1998

Property ID: 1637

Property Name: SAN JUAN 27-4 UNIT	47	51739A-1
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--DATE-- M SIWHP

..... Psi.....

09/24/68 2490.0 - original

12/04/68 1665.0

11/08/70 893.0

11/08/72 893.0

02/12/76 834.0

08/01/77 872.0

10/15/79 816.0

11/03/81 929.0

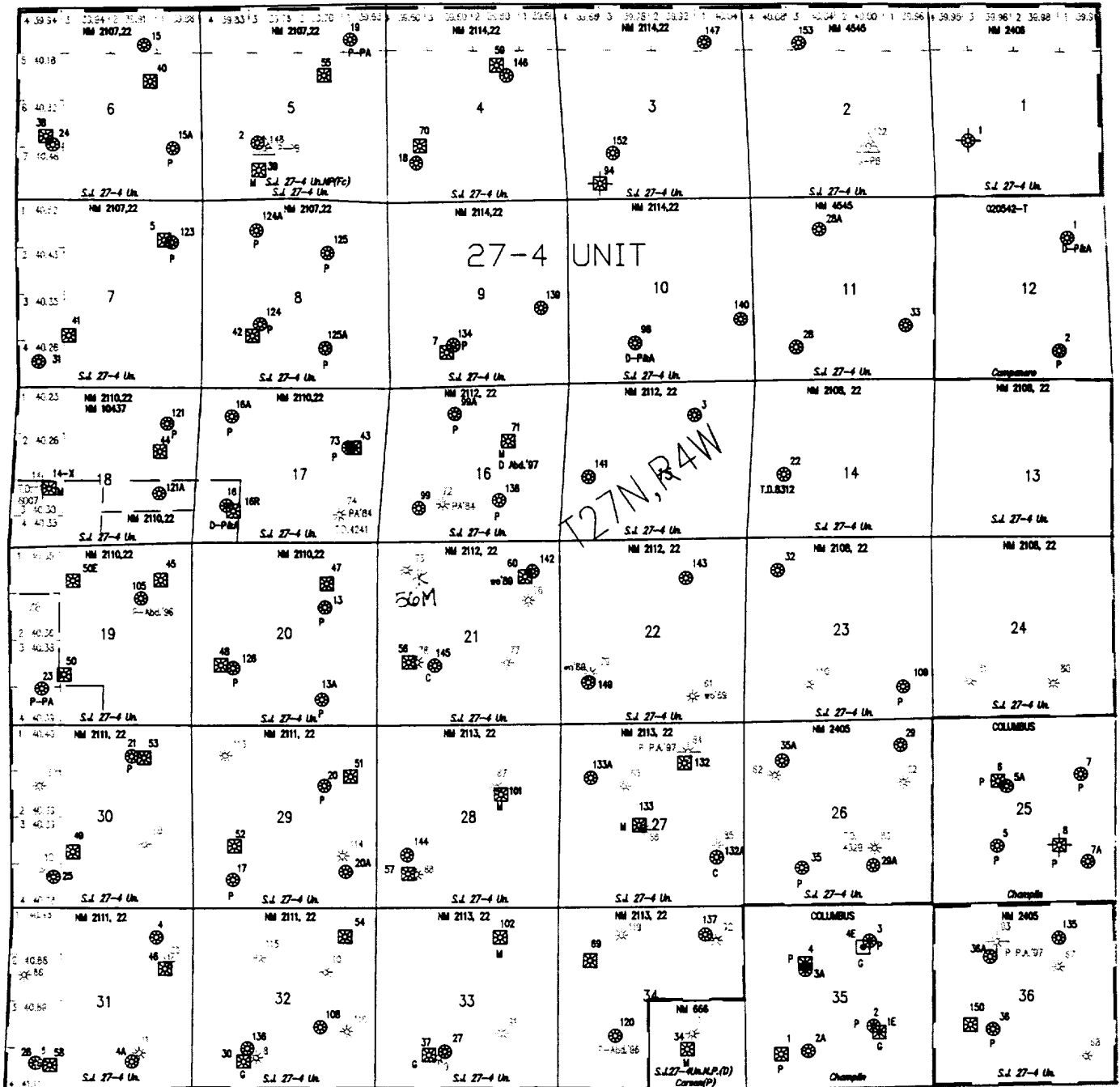
01/04/86 868.0

09/15/88 1032.0 - current

San Juan 27-4 Unit #56m

DL Offset

27N-04W-21



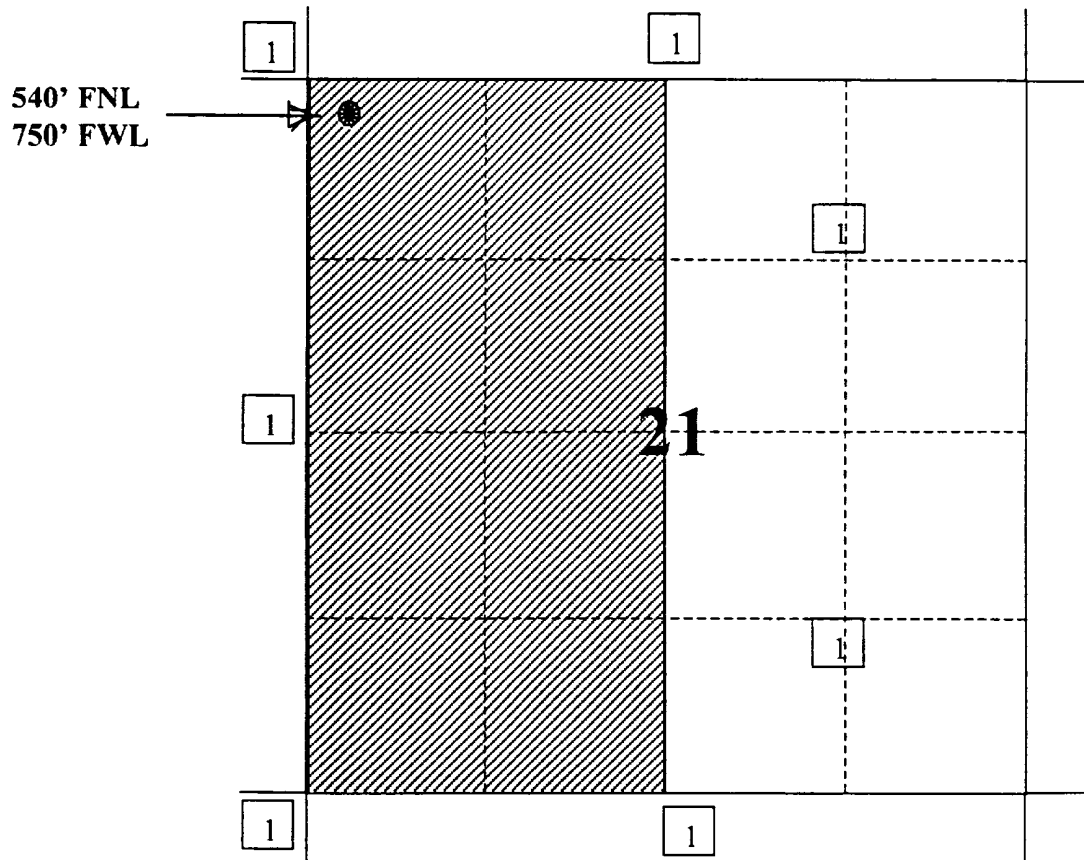
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #56M

OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
Sundry Notices and Reports on Wells

1. Type of Well
GAS

98 SEP 16 PM 2:53
070 FARMINGTON, NM

5. Lease Number
sf-080674
6. If Indian, All. or
Tribe Name

2. Name of Operator

**BURLINGTON
RESOURCES**

OIL & GAS COMPANY

11. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

Q 540' FNL, 750' FWL, Sec. 21, T-27-N, R-4-W, NMPM

NSL-4013, DHC-2061

RECEIVED
SEP 23 1998
OIL CON. DIV.
DIST. 3

7. Unit Agreement Name

San Juan 27-4 Unit
Well Name & Number
San Juan 27-4 U #56M
API Well No.
30-039-25923
Field and Pool
Blanco MV/Basin DK
11. County and State
Rio Arriba Co, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment

Type of Action

☐ Abandonment ☒ Change of Plans
☐ Recompletion ☐ New Construction
☐ Plugging Back ☐ Non-Routine Fracturing
☐ Casing Repair ☐ Water Shut off
☒ Altering Casing ☐ Conversion to Injection
☐ Other -

13. Describe Proposed or Completed Operations

It is intended to alter the approved surface casing depth and cement of the subject well. The new surface casing depth will be a minimum of 500'.

Revisions:

Casing Program:

Hole Size	Depth Interval	Casing Size	Weight	Grade
12 1/4"	0-500'	9 5/8"	32.3#	WC-50

Cementing Program:

9 5/8" surface casing - 398 sx Class "B" cement with 0.25 pps Cellophane and 3% calcium chloride (470 cu.ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi/30 minutes.

14. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Regulatory Administrator Date 9/15/98

(This space for Federal or State Office use)

APPROVED BY _____ Title _____

Date SEP 21 1998

CONDITION OF APPROVAL, if any: