

DATE IN 2/27/98	SUSPENSE 3/19/98	ENGINEER DC	LOGGED MV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

1861

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

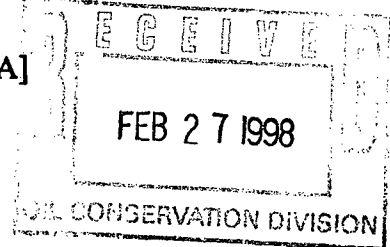
Check One Only for [B] and [C]

[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

37M

J 33-27N-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	(Current) a. 552 psi (see attachment)	a.	a. 1107 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1434 psi (see attachment)	b.	b. 3004 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1177		BTU 1215
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	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* 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 ☐ No

15. NMOCD Reference Cases for Rule 302(D) Exceptions: ORDER NO(S). 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-102

Revised February 21, 1994

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 APT Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name			6 Well Number
		SAN JUAN 27-4 UNIT			# 37M
7 OGRID No.		8 Operator Name			9 Elevation
		BURLINGTON RESOURCES OIL & GAS COMPANY			7222

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	33	27 N	4 W		1560	SOUTH	1680	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

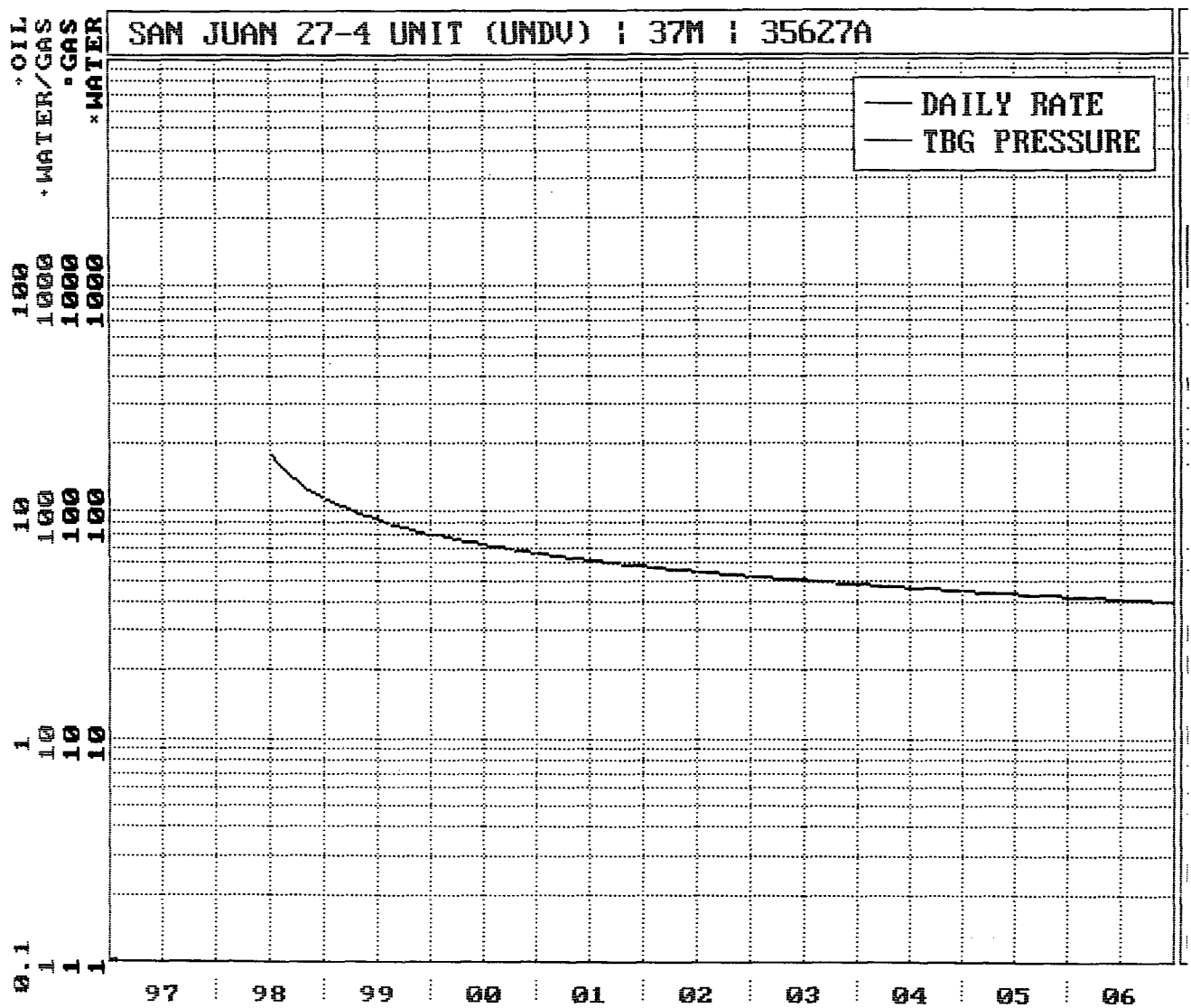
12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.

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

<div>16</div> <div>5260'(R)</div> <div>5280'(R)</div> <div>33</div> <div>NMSF- 080675</div> <div>1680'</div> <div>1560'</div> <div>5280'(R)</div>		<div>17 OPERATOR CERTIFICATION</div> <div>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</div> <div>Signature</div> <div>Printed Name</div> <div>Title</div> <div>Date</div>	
		<div>18 SURVEYOR CERTIFICATION</div> <div>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.</div> <div>November 22, 1997</div> <div>Date of Survey</div> <div>Signature and Seal of Professional Approver:</div>	
		<div>GARY D. VAAW</div> <div>NEW MEXICO</div> <div>REGISTERED PROFESSIONAL LAND SURVEYOR</div> <div>7016</div> <div>Certificate Number</div>	

(R) - GLO RECORD

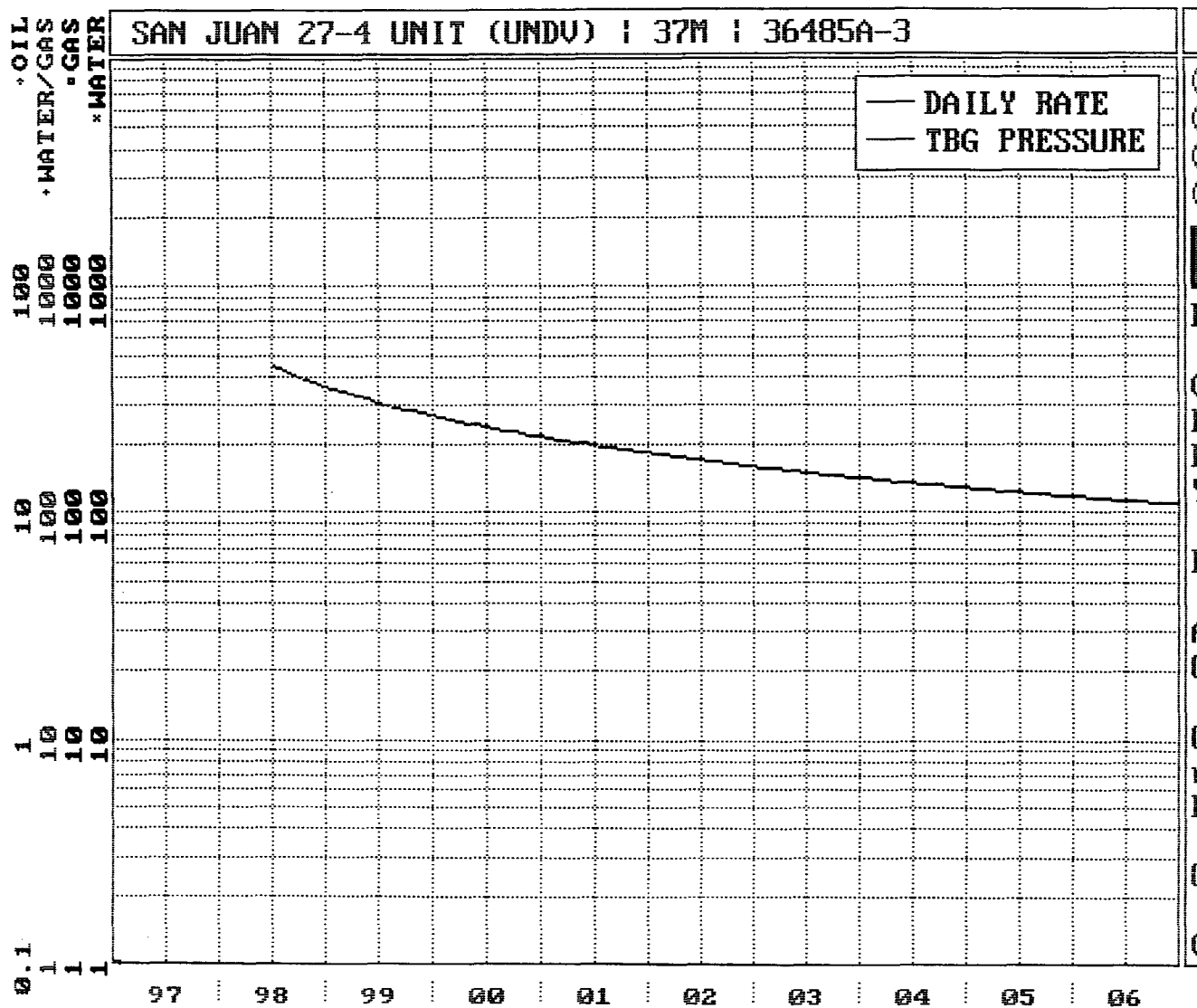
San Juan 27-4 Unit #37M
Expected Production Curve
Blanco Mesaverde



San Juan 27-4 Unit #37M

Expected Production Curve

Basin Dakota



SJ 27-4 Unit #37M
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	0.687	GAS GRAVITY	0.714
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.29	%N2	0.29
%CO2	0.73	%CO2	0.91
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6258	DEPTH (FT)	8163
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)	472	SURFACE PRESSURE (PSIA)	892
BOTTOMHOLE PRESSURE (PSIA)	552.3	BOTTOMHOLE PRESSURE (PSIA)	1106.6
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.687	GAS GRAVITY	0.714
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.29	%N2	0.29
%CO2	0.73	%CO2	0.91
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	2.375
DEPTH (FT)	6258	DEPTH (FT)	8163
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)	1200	SURFACE PRESSURE (PSIA)	2372
BOTTOMHOLE PRESSURE (PSIA)	1434.1	BOTTOMHOLE PRESSURE (PSIA)	3004.0

Page No.: 1

Print Time: Fri Jan 16 11:30:48 1998

Property ID: 3752

Property Name: SAN JUAN 27-4 UNIT | 108 | 44663A-1

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

--DATE-- M SIWHP
■■■■■■■■■■ ■■■Psi■■■

San Juan 27-4 Unit #37M

Mesaverde Offset

09/08/80	1200.0	- original
01/05/82	682.0	
05/28/82	648.0	
10/19/82	684.0	
09/19/83	677.0	
05/18/84	702.0	
11/03/86	663.0	
10/04/89	602.0	
02/18/91	560.0	
07/11/91	572.0	
05/03/93	472.0	- current

Page No.: 1

Print Time: Fri Jan 16 11:31:12 1998

Property ID: 1646

Property Name: SAN JUAN 27-4 UNIT | 54 | 51794A-1

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

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

San Juan 27-4 Unit #37M

Dakota Offset

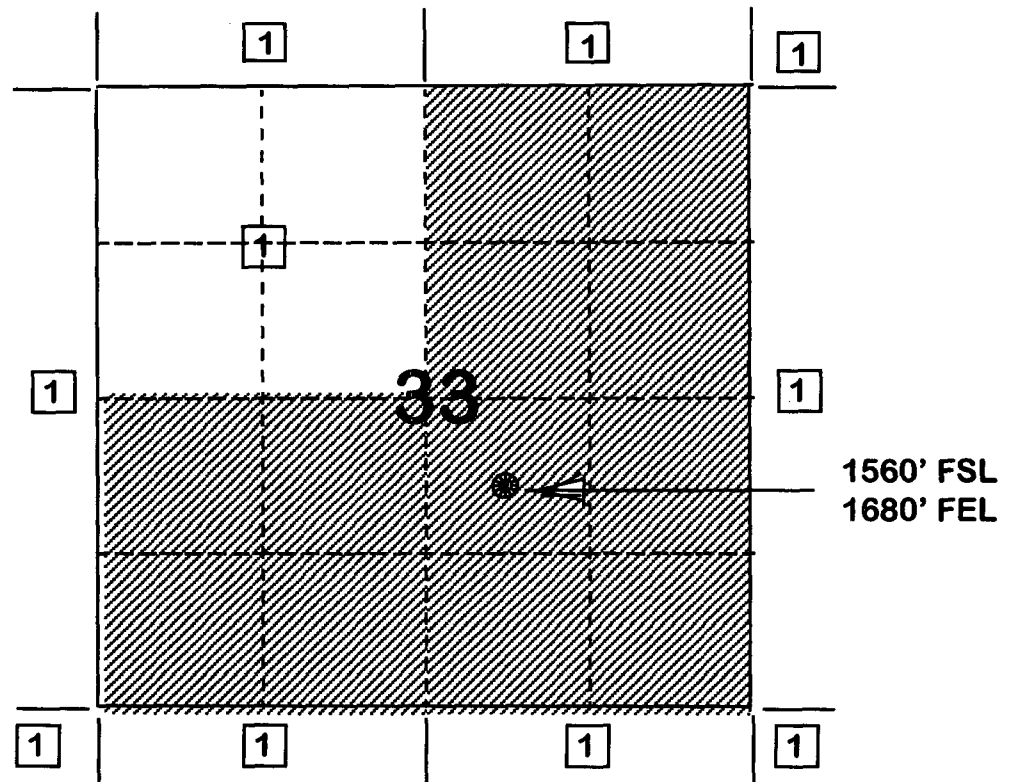
10/16/68	2372.0	-original
06/13/69	1405.0	
06/24/70	1040.0	
05/18/71	921.0	
06/13/72	812.0	
07/06/77	822.0	
05/01/79	821.0	
06/01/81	723.0	
05/20/85	972.0	
04/22/90	983.0	
06/15/93	892.0	- current

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-4 Unit #37M
OFFSET OPERATOR \ OWNER PLAT**

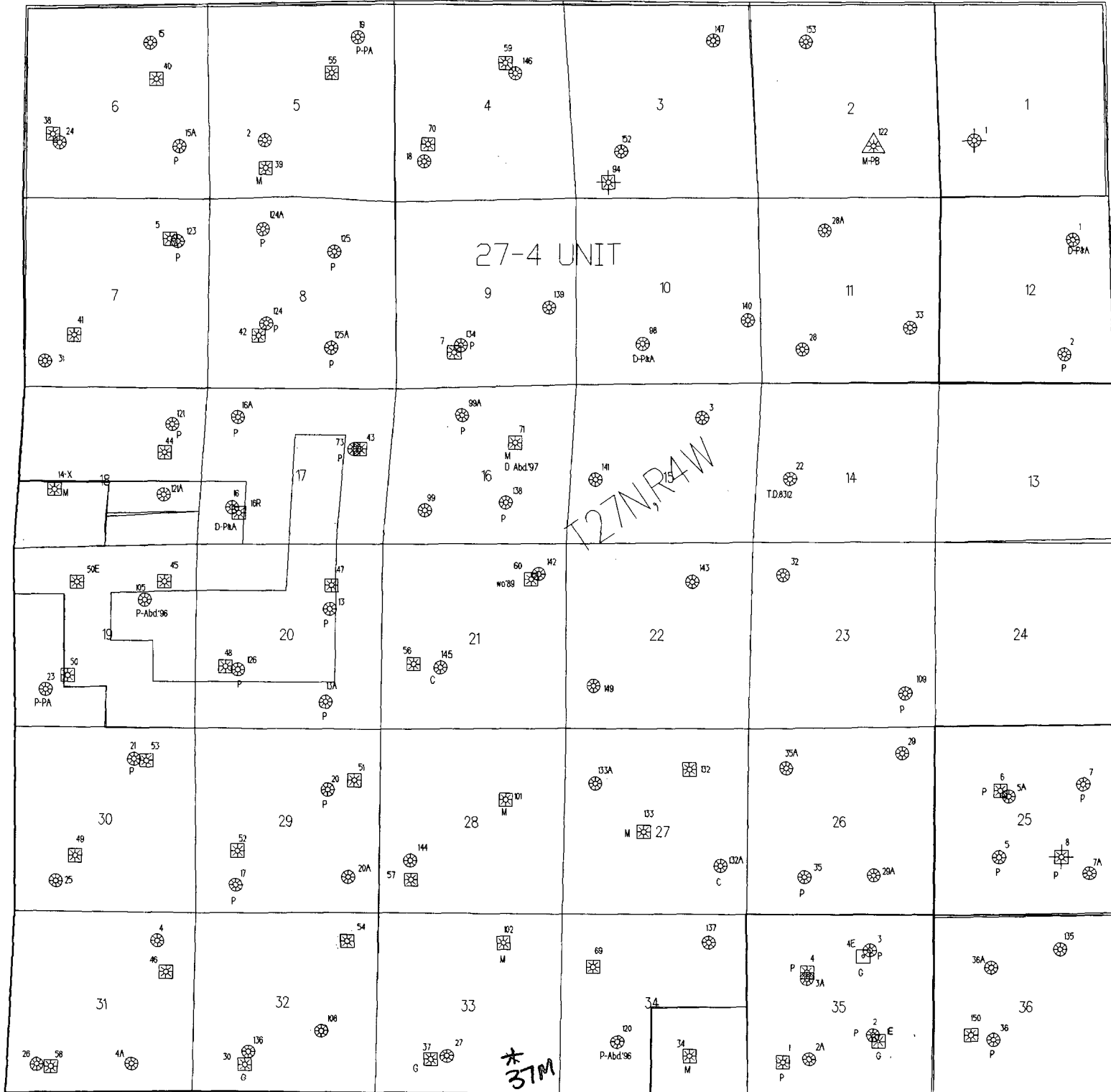
Mesaverde (E/2) / Dakota (S/2) Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources

San Juan 27-4 Unit #37M
Blanco Mesaverde/ Basin Dakota
27N-4W-33P



02/24/98

J-I-B SCHEDULE

LWR270NL

INQUIRE

<WELLSTAT>

WELL: 36339A SAN JUAN 27-4 UNIT 37M

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CO-OWNER	BILLING %	TOTAL %
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028359 CINCO GENERAL PARTNERSHIP	10.929519	
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028873 BEDROCK LIMITED PARTNERSHIP	.882877	
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029669 TEMPE LTD PARTNERSHIP	.882876	
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030573 HARCO LTD PTSHP	.882876	
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105291 JAMES V HARRINGTON	.882876	
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105292 MARY JONE CHAPPELL	.882876	
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999810 BURLINGTON RESOURCES OIL & GAS	84.656100	
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100.000000

Both ml & DK

ENTER=NEXT PAGE

PF11=PAGE BACK

PF12=MENU

PF24=HELP