

DISTRICT I

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

DISTRICT II

111 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

52M

29-27N-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	a. (Current) 617 psi (see attachment) b. (Original) 1303 psi (see attachment)	a. b.	a. 1243 psi (see attachment) b. 3173 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1159		BTU 1219
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 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

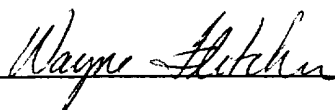
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____ attached

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



TITLE: Production Engineer

DATE: 02-04-99

TYPE OR PRINT NAME: Wayne Fletcher

TELEPHONE NO.:

(505) 326-9700

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
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 API Number		2 Pool Code		3 Pool Name		
4 Property Code		5 Property Name			6 Well Number	
		SAN JUAN 27-4 UNIT			# 52M	
7 OGRID No.		8 Operator Name			9 Elevation	
		BURLINGTON RESOURCES OIL & GAS COMPANY			7193	

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
C	29	27 N	4 W		1040	NORTH	1370	WEST	RIO ARRIBA

11 Bottom Hole Location If Different From Surface

7 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 INTEREST 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.	
		August 10, 1998 Date of Survey Signature and Seal of Professional Surveyor 7016 Certificate Number	

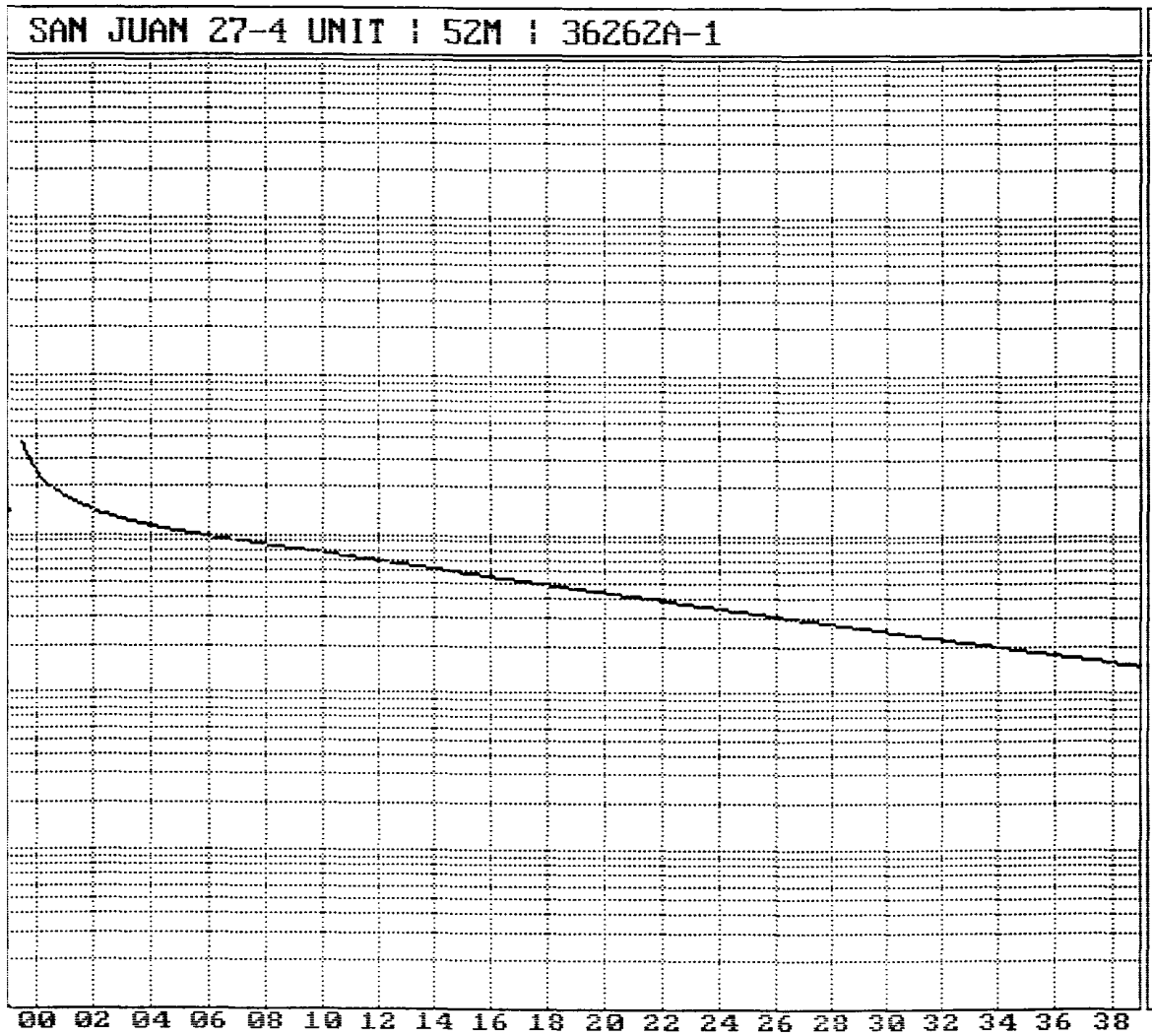
(R) - GLO Record

NSL

San Juan 27-4 Unit #52M

Expected Production Curve

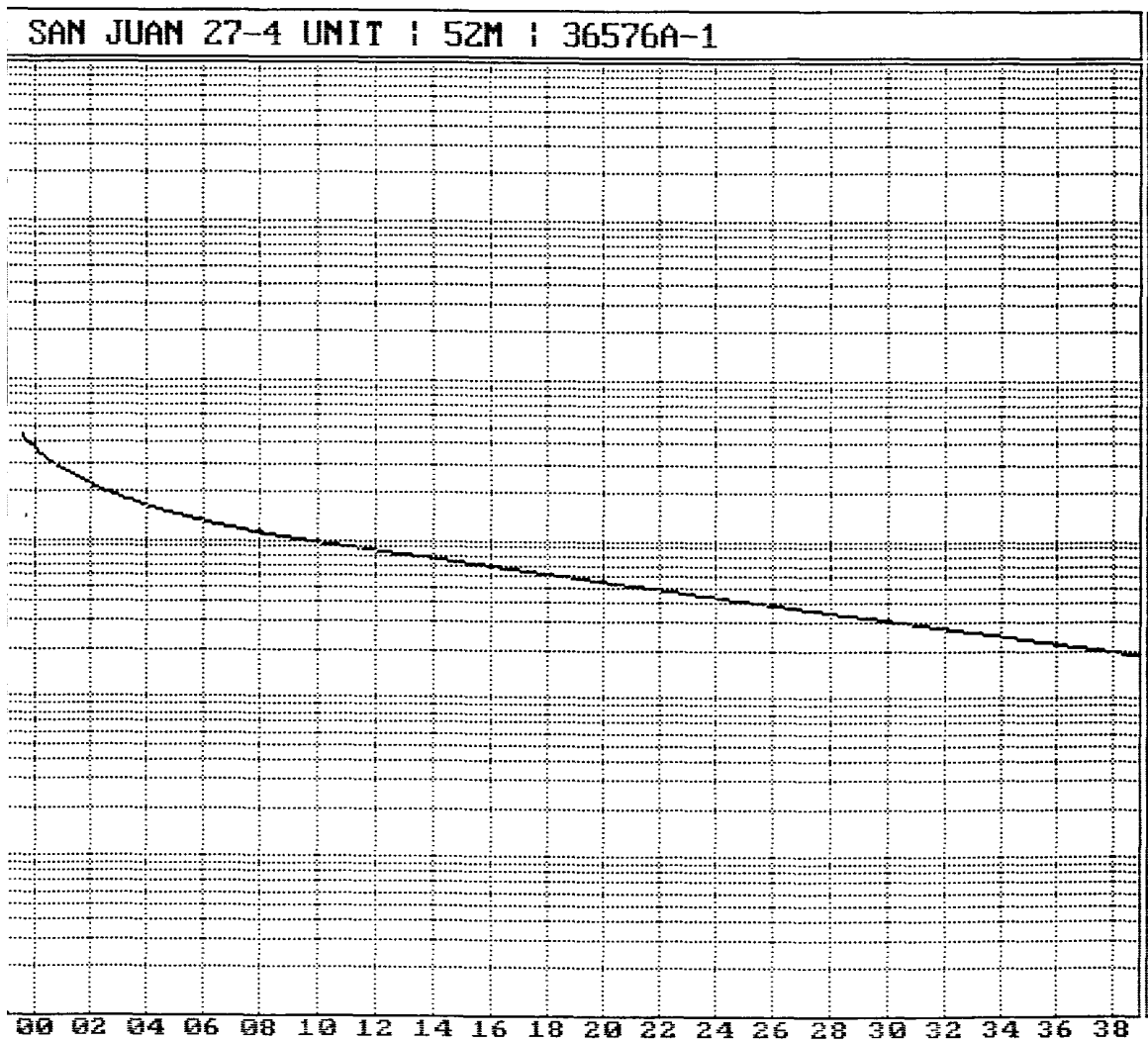
Mesaverde Formation



San Juan 27-4 Unit #52M

Expected Production Curve

Dakota Formation



Mesaverde**MV-Current**

GAS GRAVITY	0.678
COND. OR MISC. (C/M)	C
%N2	0.23
%CO2	0.98
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5865
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	533
BOTTOMHOLE PRESSURE (PSIA)	617.1

Dakota**DK-Current**

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	C
%N2	0.23
%CO2	1.07
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	8159
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	996
BOTTOMHOLE PRESSURE (PSIA)	1242.7

MV-Original

GAS GRAVITY	0.678
COND. OR MISC. (C/M)	C
%N2	0.23
%CO2	0.98
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5865
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1109
BOTTOMHOLE PRESSURE (PSIA)	1303.2

DK-Original

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	C
%N2	0.23
%CO2	1.07
%H2S	0
DIAMETER (IN)	2.375
DEPTH (FT)	8159
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	198
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2503
BOTTOMHOLE PRESSURE (PSIA)	3173.2

Page No.: 1
 Print Time: Wed Feb 03 15:59:33 1999
 Property ID: 1393
 Property Name: SAN JUAN 27-5 UNIT | 17 | 49641A-1
 Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

--DATE-- ---CUM_GAS-- M SIWHP
 :::::MCf:::::Psi:::

09/24/56	0	1109.0	-original	<u>San Juan 27-4 Unit #52M</u>
10/09/56	0	1098.0		
07/30/57	184000	859.0		Mesaverde Offset
11/06/58	405000	861.0		
06/14/59	518000	822.0		
09/22/60	734000	791.0		
03/05/61	794000	799.0		
11/02/62	1001000	754.0		
04/19/63	1034000	795.0		
04/29/64	1146000	766.0		
05/10/65	1269000	740.0		
04/19/66	1411000	707.0		
05/16/67	1526000	701.0		
05/02/68	1635000	676.0		
06/30/69	1783710	606.0		
10/07/70	1940838	588.0		
07/22/71	2032607	541.0		
06/06/72	2134779	542.0		
07/19/73	2278884	467.0		
06/04/74	2395047	462.0		
06/25/76	2581220	476.0		
08/02/78	2754975	494.0		
05/01/80	2910206	444.0		
05/31/82	3064582	466.0		
06/05/84	3157829	507.0		
04/21/86	3247353	514.0		
11/27/89	3381042	520.0		
03/05/91	3405491	511.0		
11/18/91	3416757	499.0		
05/31/93	3450562	533.0	-current	

Print Time: Wed Feb 03 15:59:21 1999

Property ID: 1265

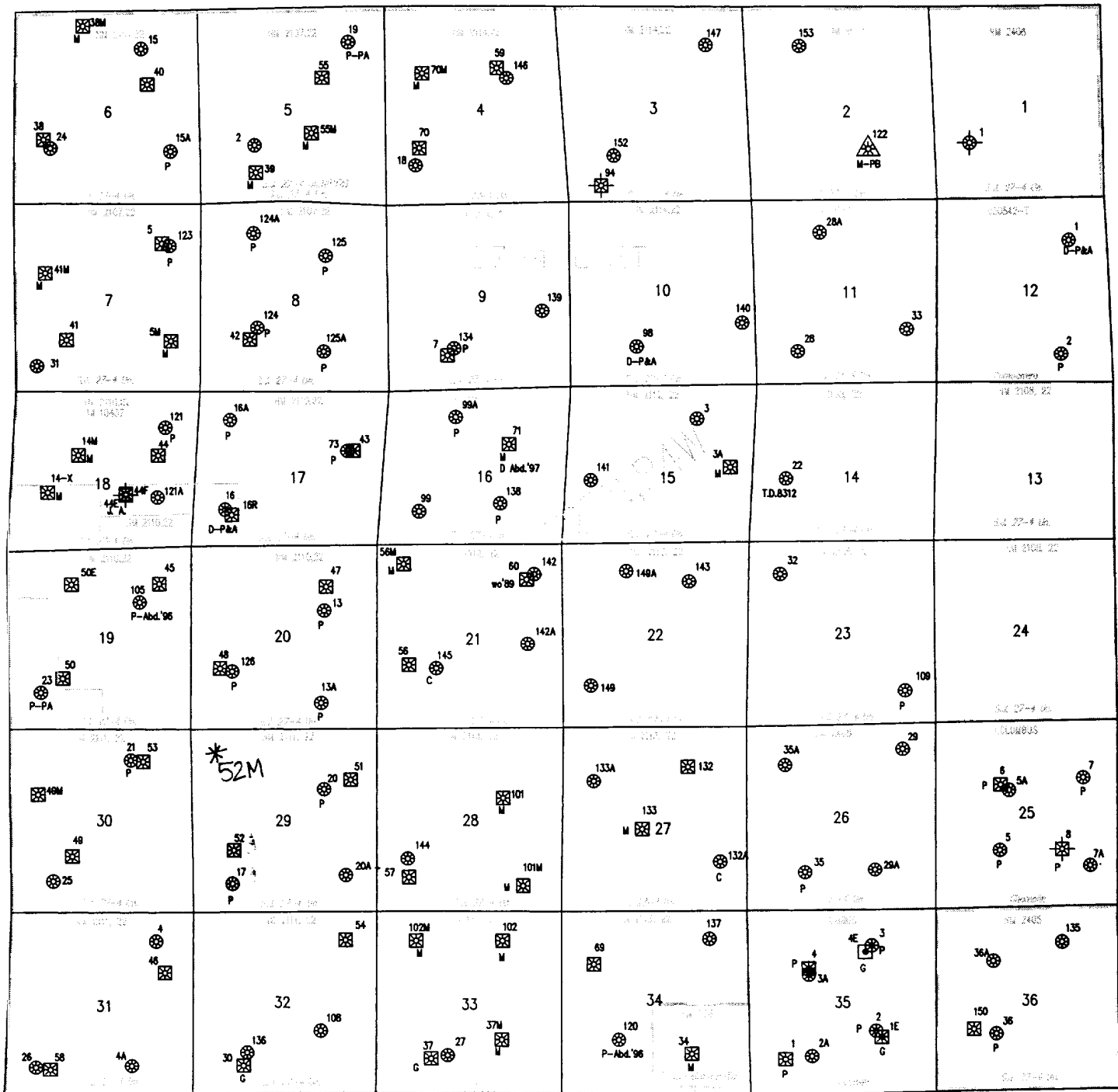
Property Name: SAN JUAN 27-4 UNIT | 52 | 51795A-1

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

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

10/29/68	0	2503.0	-original	<u>San Juan 27-4 Unit #52M</u>
06/13/69	34028	1505.0		
09/28/70	149909	1013.0		DAKOTA Offset
05/18/71	192839	992.0		
06/13/72	256353	777.0		
06/24/75	383450	854.0		
07/06/77	462861	954.0		
05/29/80	548698	1132.0		
11/03/81	596873	1222.0		
09/19/83	635261	1370.0		
05/20/85	699826	910.0		
10/16/88	819555	992.0		
06/06/90	883715	795.0		
11/16/92	954671	996.0	-current	

San Juan 27-4 Unit #52M
Blanco Mesaverde / Basin Dakota
27N - 4W - 29



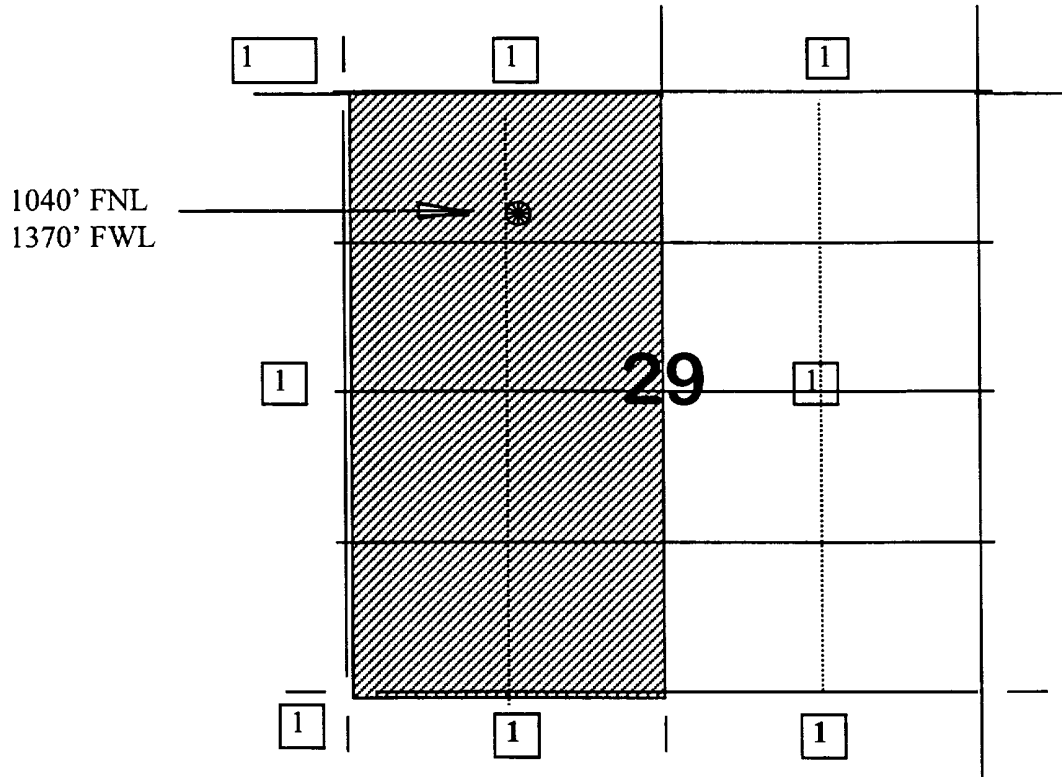
San Juan 27-4 Unit #52M

OFFSET OPERATOR/OWNER PLAT

Mesaverde/Dakota Formations

Down-hole Commingle

Township 27 North, Range 4 West



1) Burlington Resources