

**BURLINGTON
RESOURCES**

SAN JUAN DIVISION

DHC 1114/97
RECEIVED

DEC 24 1996

Oil Conservation Division

1444

December 16, 1996

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: San Juan 29-7 Unit #138
1605'FNL, 1040'FWL Section 25, T-29-N, R-7-W, Rio Arriba County, NM
API #30-039-24149

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This is well was originally drilled as a single Dakota and the Mesa Verde is being added.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Production curve for the Dakota for at least one year;
4. Notification list of offset operators - Burlington is the offset operator;
5. Shut in wellhead pressure and calculated down hole pressure;
6. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Order #R-10697 issued November 12, 1996.

As we discussed, we would like to amend our allocation method to a method approved by the District Office of the New Mexico Oil Conservation Division. This will afford us greater flexibility in determining the most accurate allocation formula.

Please let me know if you require additional data.

Sincerely,



Peggy Bradfield
Regulatory/Compliance Administrator

encs.

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

DISTRICT II
811 South First St., Artesia, NM 88210-2835

OIL CONSERVATION DIVISION

APPROVAL PROCESS :

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410-1693

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Administrative Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

YES NO

BURLINGTON RESOURCES
Operator

PO BOX 4289 FARMINGTON, NM 87499
Address

SAN JUAN 29-7 UNIT
Lease

138
Well No.

E-25 -29N-7W
Unit Ltr. - Sec - Twp - Rge

RIO ARRIBA
County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 014538 Property Code 7465 API NO. 30-039-24149 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)	5213-5909'		7807'-8030'
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. 542 psi (see attachment)	a.	a. 946 psi (see attachment)
	(Original) b. 1236 psi (see attachment)	b.	b. 1466 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1169		BTU 1018
7. Producing or Shut-In?	SHUT - IN		PRODUCING
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 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 Peggy Bradford TITLE Regulatory Administrator DATE 12-17-96

TYPE OR PRINT NAME Peggy Bradford TELEPHONE NO. (505) 326-9700

District I
 PO Box 1988, Hobbs, NM 88241-1988
 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

Form C-10
 Revised February 21, 199
 Instructions on back
 Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-24149		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7465	Property Name San Juan 29-7 Unit		Well Number 138
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6729'

Surface Location

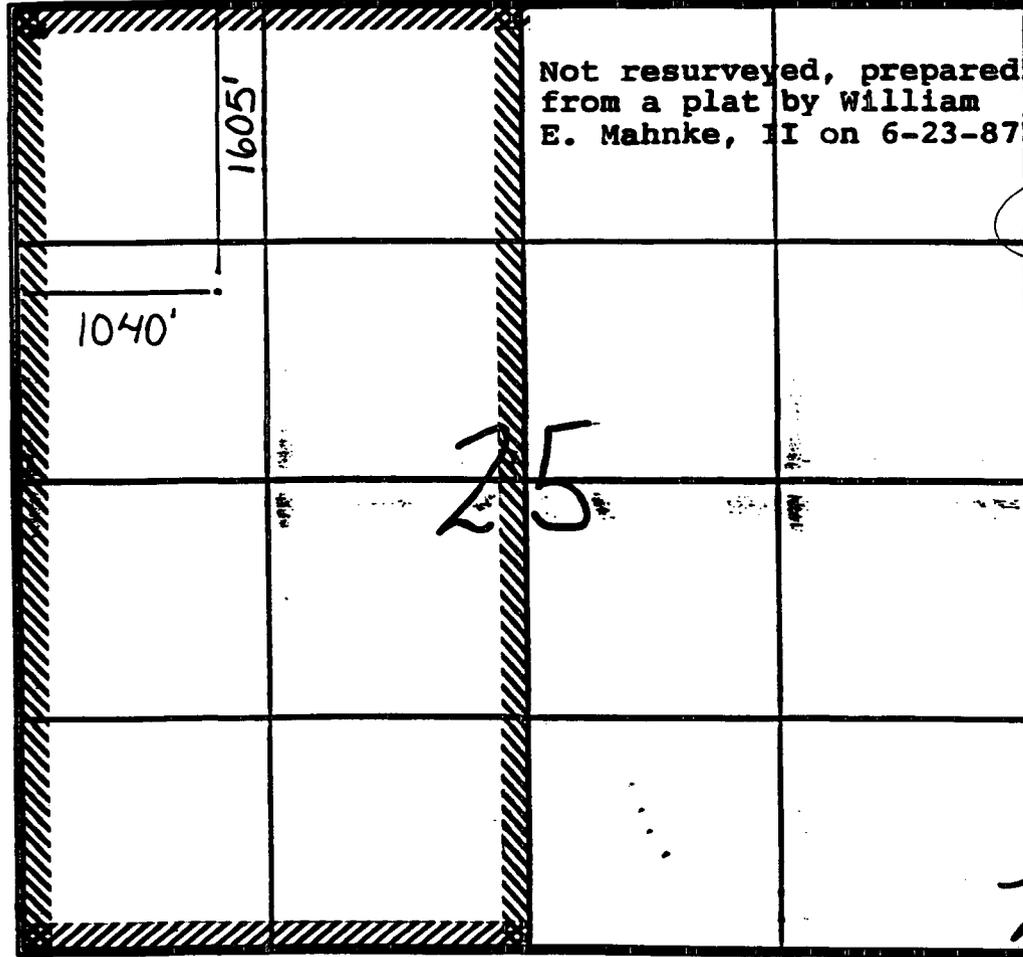
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
E	25	29-N	7-W		1605	North	1040	West	R.A.

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres W/320 W/320	Joint or Infill	Consolidation Code	Order No.
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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



OPERATOR CERTIFICATION

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

Peggy Bradfield
 Signature
 Peggy Bradfield
 Printed Name
 Regulatory Administrator
 Title
 11-5-96
 Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.
 11/04/96
 Date of Survey

Signature and Seal of Surveyor

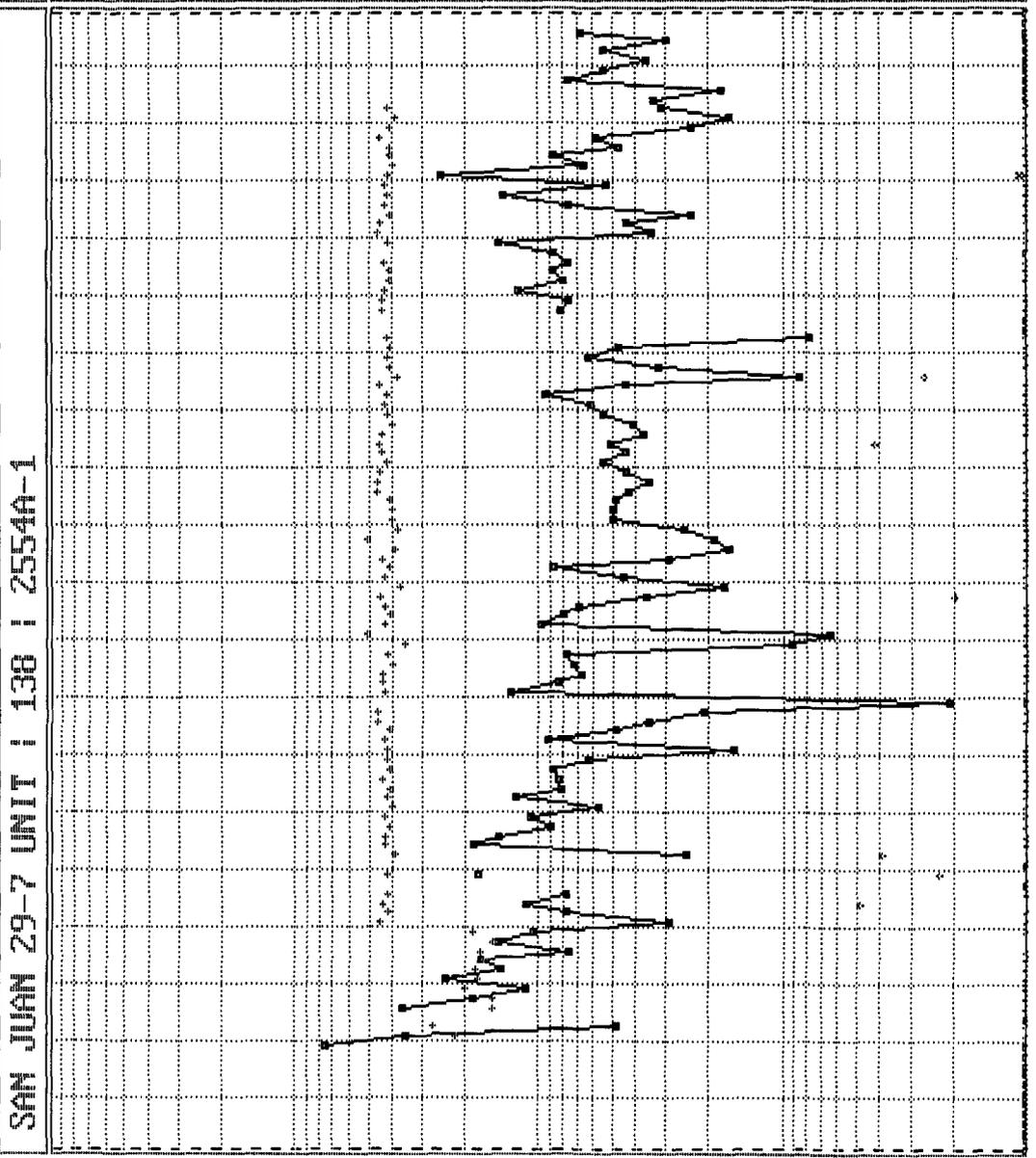
 Certificate Number

SAN JUAN 29-7 UNIT : 138 : 2554A-1

Prop 1 #

- * WATER Bbls/d
- * GAS Mcf/d
- * WATER/GAS
- * OIL Bbl/d

 RateTime
 Semi Log



Major = GAS

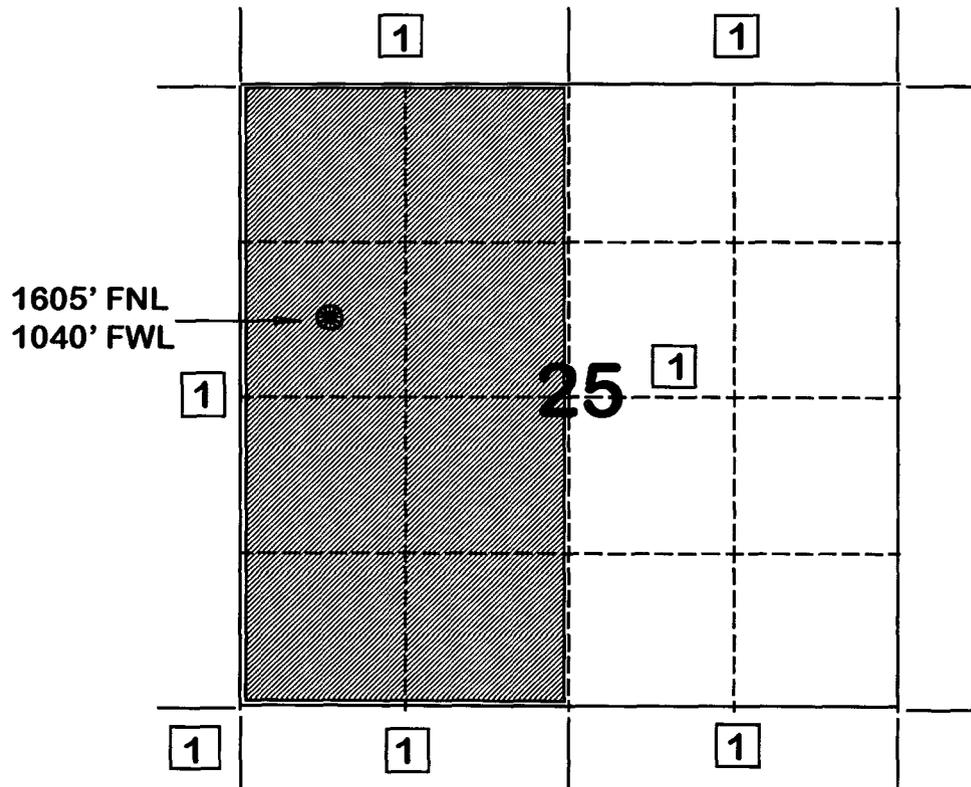
* OIL 100
 * WATER/GAS 10
 * GAS 100
 * WATER 1000

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 29-7 Unit #138
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde/Dakota Formations Commingle Well

Township 29 North, Range 7 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.683</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.16</u>
%CO2	<u>0.87</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2</u>
DEPTH (FT)	<u>5468</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>474</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>542.2</u>

SAN JUAN 29-7 UNIT #69 MESAVERDE - CURRENT

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.683</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.16</u>
%CO2	<u>0.87</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2</u>
DEPTH (FT)	<u>5468</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1051</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1235.9</u>

SAN JUAN 29-7 UNIT #69 MESAVERDE - ORIGINAL

Page No.: 1

Print Time: Tue Oct 15 16:04:43 1996

Property ID: 4458

Property Name: SAN JUAN 29-7 UNIT | 69 | 69667-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

--DATE-- ---CUM_GAS-- M SIWHP
Mcf Psi

06/15/58	0	1051.0	← original
06/30/58	0	1050.0	
12/14/58	79000	830.0	
08/22/59	161000	807.0	
09/06/60	301000	773.0	
03/05/61	387000	761.0	
04/23/62	532000	688.0	
02/28/63	588000	729.0	
02/24/64	657000	750.0	
02/25/65	751000	742.0	
01/04/66	846000	691.0	
07/10/67	1016000	645.0	
07/12/68	1131000	633.0	
06/05/69	1226000	592.0	
04/21/70	1338684	587.0	
03/23/71	1466968	539.0	
08/08/72	1671620	485.0	
09/04/73	1829284	432.0	
04/16/74	1900003	450.0	
06/08/76	2149892	436.0	
05/03/78	2325721	412.0	
06/20/80	2491666	477.0	
05/27/82	2608873	485.0	
07/05/84	2711610	475.0	
12/03/86	2792494	534.0	
09/07/89	2871987	519.0	
05/20/91	2908832	500.0	
06/13/91	2908832	512.0	
03/29/93	2964200	474.0	← current

Mesaverde Parent of
29-7 #138

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.596</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.14</u>
%CO2	<u>1.56</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>1.5</u>
DEPTH (FT)	<u>8015</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>200</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1232</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1466.4</u>

SAN JUAN 29-7 UNIT #138 DAKOTA-ORIGINAL

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.596</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.14</u>
%CO2	<u>1.56</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>1.5</u>
DEPTH (FT)	<u>8015</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>200</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>800</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>945.5</u>

SAN JUAN 29-7 UNIT #138 DAKOTA-CURRENT

Page No.: 1

Print Time: Tue Oct 15 16:03:11 1996

Property ID: 2099

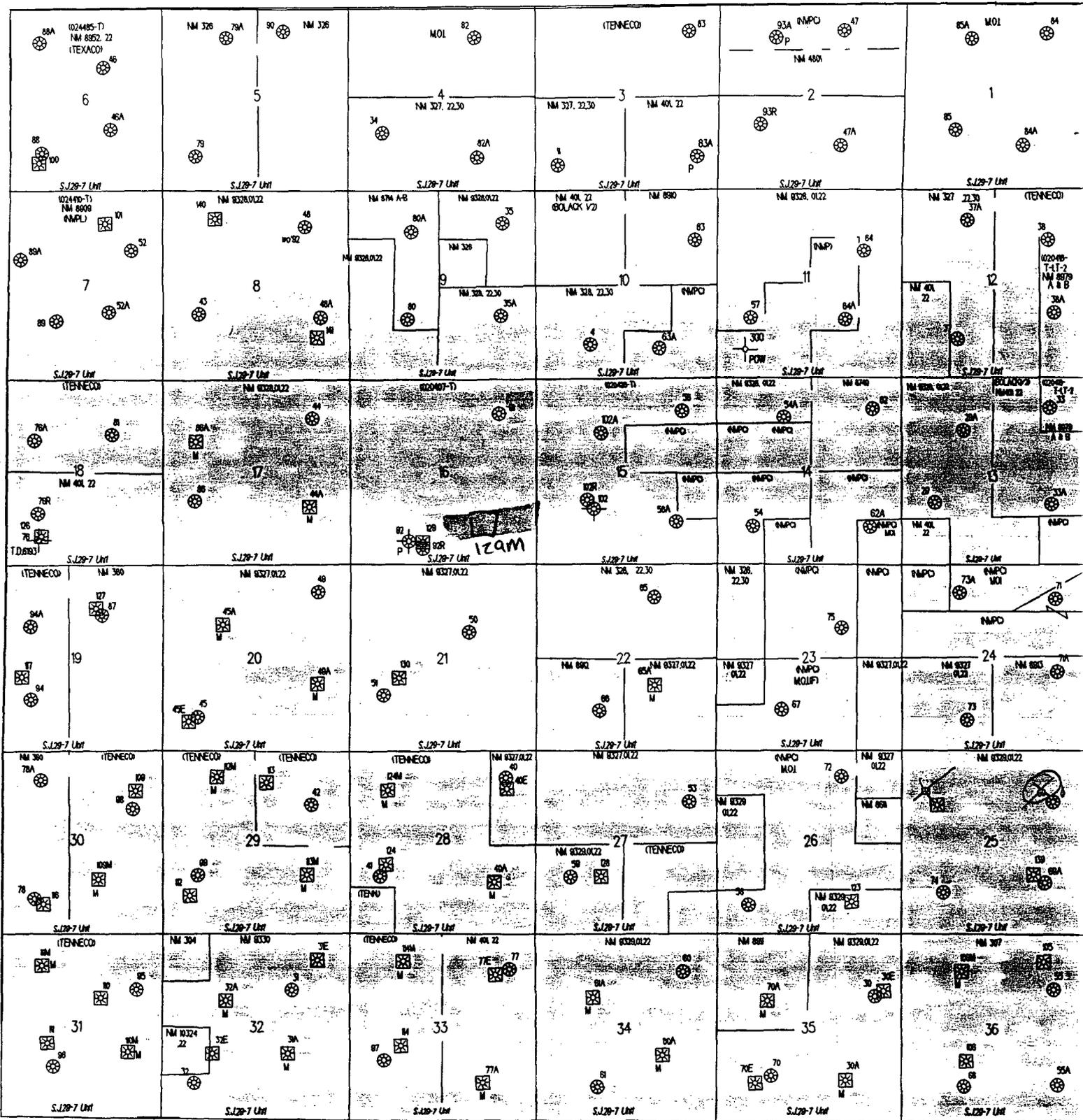
Property Name: SAN JUAN 29-7 UNIT | 138 | 2554A-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

01/26/87	0	1232.0	← Original
10/08/89	108026	982.0	
04/09/90	124560	862.0	
07/01/92	166875	592.0	
06/18/94	197926	800.0	← Current

Existing Dakota



X- DK well to be recomplected
 ⊗ - Offset MV

SAN JUAN 29-7 UNIT