

BURLINGTON RESOURCES

SAN JUAN DIVISION

1444
RECEIVED

DEC 24 1996

Oil Conservation Division

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

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

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) (Original) b. 1236 psi (see attachment)	a. b.	a. 946 psi (see attachment) 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 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: % WILL BE SUPPLIED UPON COMPLETION	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. NMOC 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 Bradfield TITLE Regulatory Administrator DATE 12-17-96TYPE OR PRINT NAME Peggy Bradfield 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

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

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

☐ 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'	

10 Surface Location


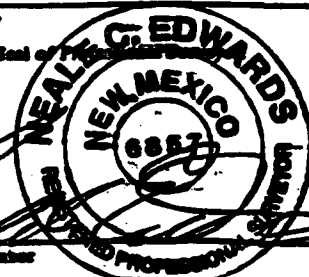
UL or lot no. E	Section 25	Township 29-N	Range 7-W	Lot Ida	Feet from the 1605	North/South line North	Feet from the 1040	East/West line West	County R.A.
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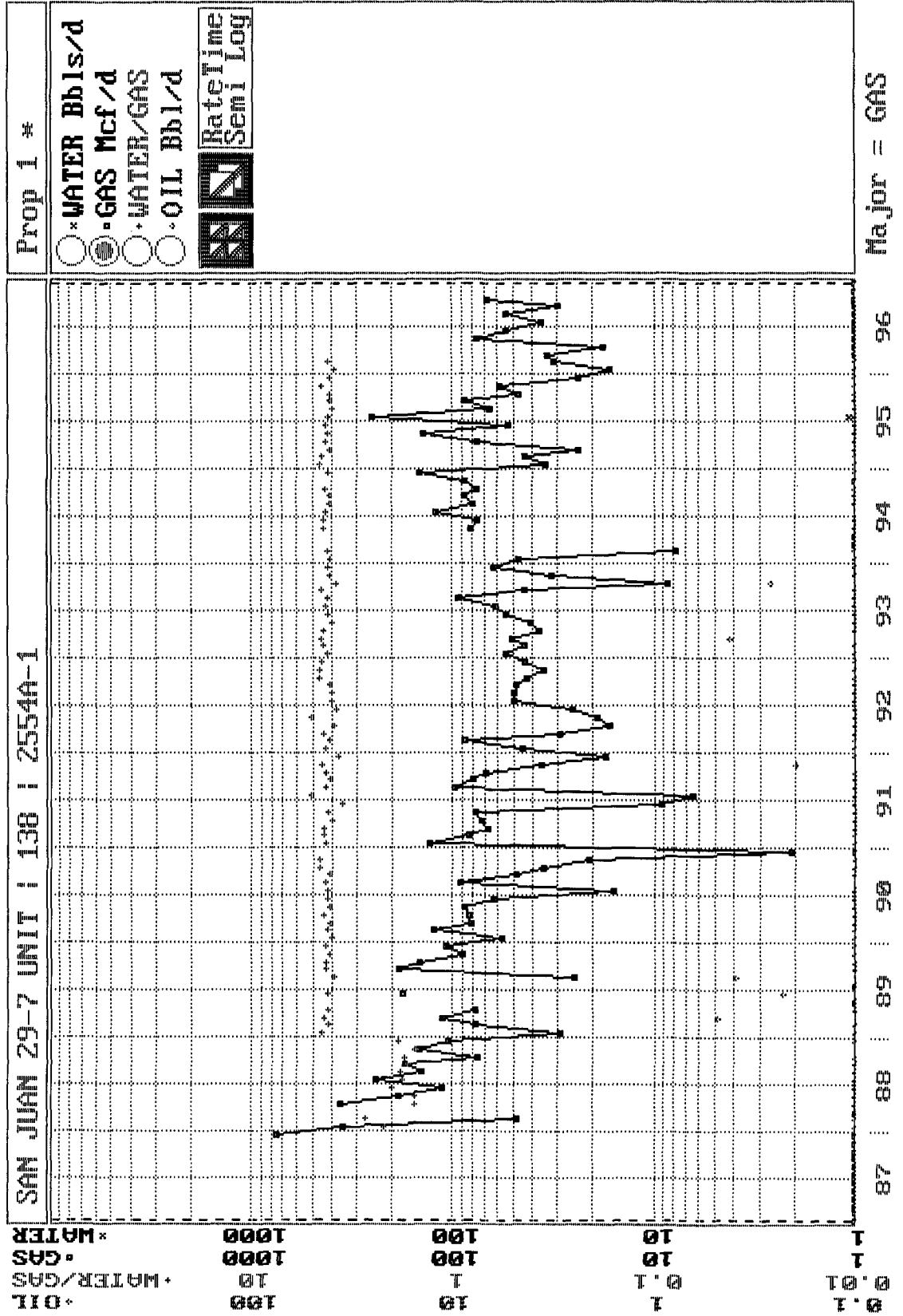
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres W/320 W/320	13 Joint or Infill	14 Consolidation Code	15 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

<div>Not resurveyed, prepared from a plat by William E. Mahnke, II on 6-23-87</div>				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <div> Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date 11-5-96</div>	
				18 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. Date of Survey 11/04/96 Signature and Seal of Professional Surveyor <div> Neal C. Edwards NEW MEXICO 6857 Professional Surveyor</div> Certificate Number	

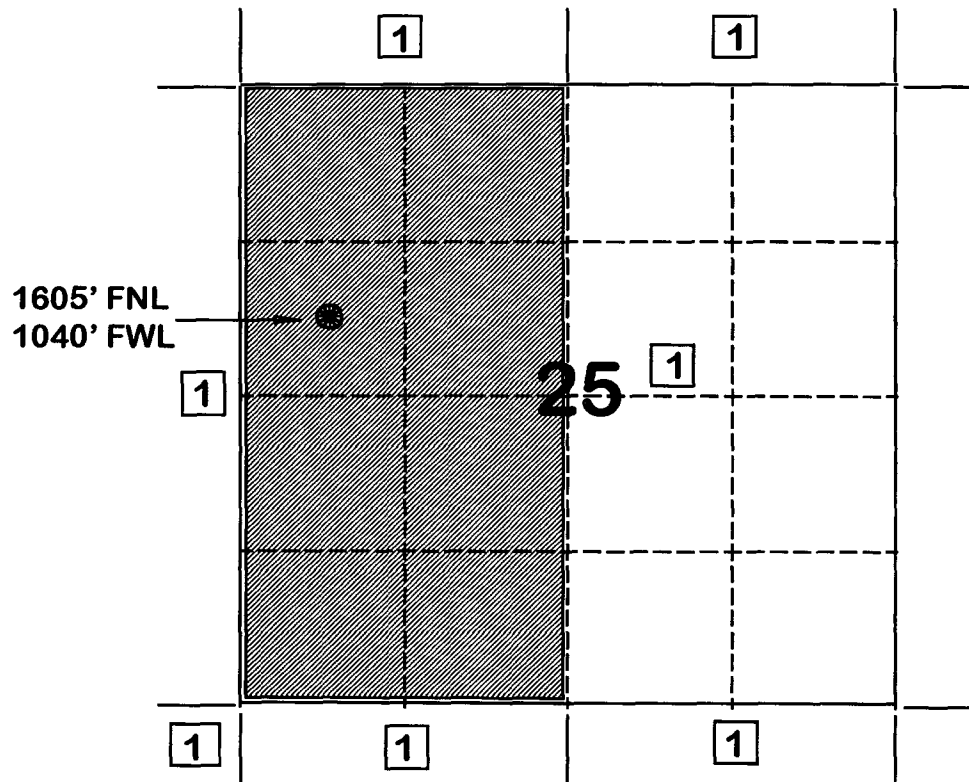


BURLINGTON RESOURCES OIL AND GAS COMPANY

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

SAN JUAN 29-7 UNIT #69 MESAVERDE - CURRENT

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

VERSION 1.0 3/13/94

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

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

SAN JUAN 29-7 UNIT #138 DAKOTA-ORIGINAL

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

VERSION 1.0 3/13/94

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

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

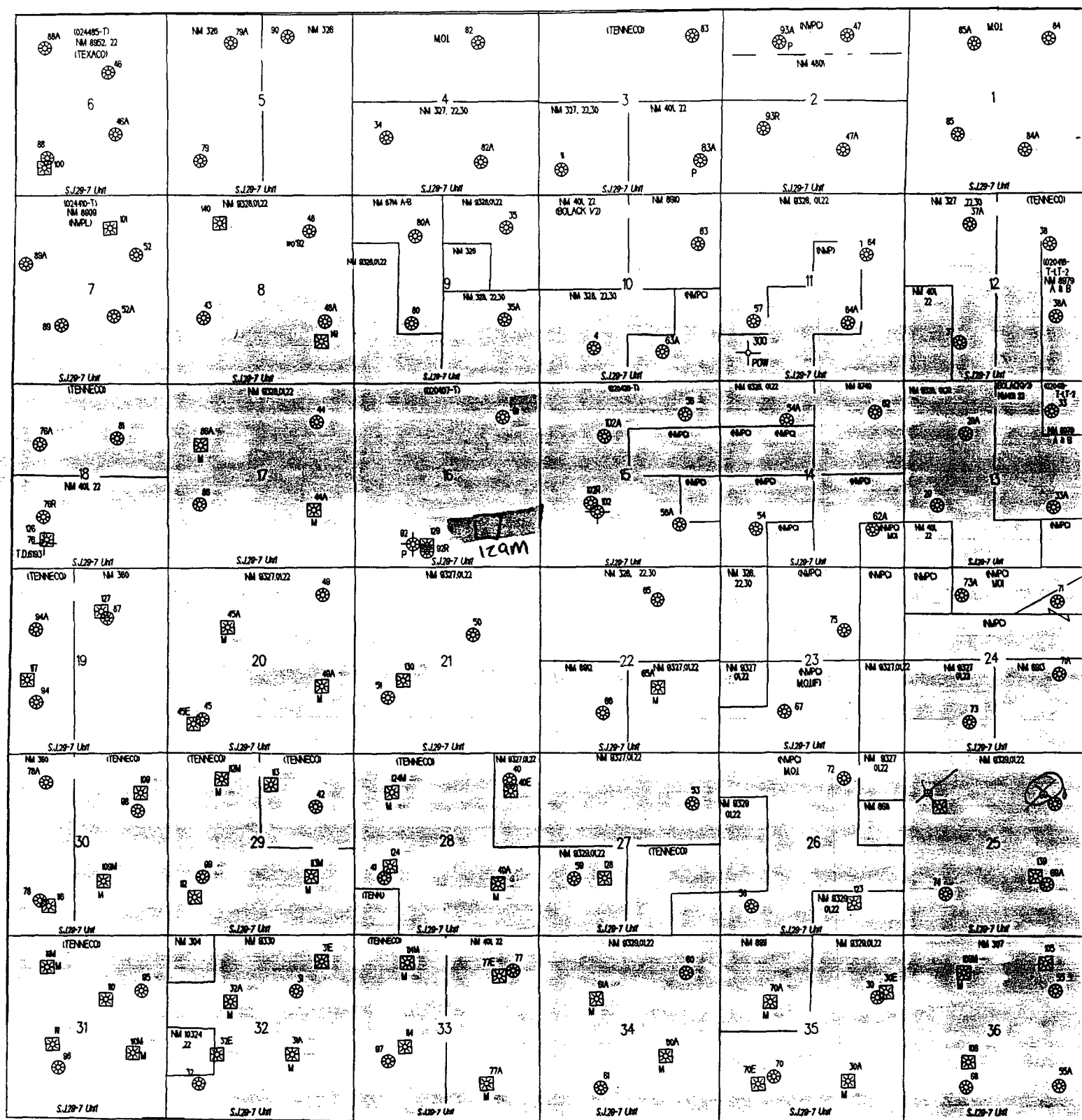
Table Name: K:\ARIES\RR97PDP\TEST.DBF

--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
 ① - Offset MV

SAN JUAN 29-7 UNIT