

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FOR APPROVED

OMB NO. 1004-0137

Expires: December 31, 1991

5. LEASE DESIGNATION AND SERIAL NO.

SF-078425

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

San Juan 29-7 Unit

8. FARM OR LEASE NAME, WELL NO.

San Juan 29-7 U #123

9. API WELL NO.

30-039-23620

10. FIELD AND POOL, OR WILDCAT

Blanco MV/Basin DK

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec.26, T-29-N, R-7-W

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:

OIL WELL ☐ GAS WELL ☒ DRY ☐ Other ☐

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR ☒ Other ☐

2. NAME OF OPERATOR

BURLINGTON RESOURCES OIL & GAS COMPANY

3. ADDRESS AND TELEPHONE NO.

PO BOX 4289, Farmington, NM 87499

(505) 326-9700

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 950'FSL, 1520'FEL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

DIST. 3

12. COUNTY OR PARISH
Rio Arriba

13. STATE

New Mexico

15. DATE SPUDDED

12/19/84

16. DATE T.D. REACHED

12/31/84

17. DATE COMPL. (Ready to prod.)

12/4/96

18. ELEVATIONS (DF, RKB, RT, BR, ETC.)*

6360 GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

7665

21. PLUG, BACK T.D., MD & TVD

7657

22. IF MULTIPLE COMPL., HOW MANY*

2

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

0-7665

24. PRODUCTION INTERVAL (S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)*

4814-5505 Mesaverde

Commingled w/Dakota

25. WAS DIRECTIONAL SURVEY MADE

27. WAS WELL CORED
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
CBL-CCL-GR

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9 5/8	40#	243	12 1/4	144 cu.ft.	
7	20#	3523	8 3/4	365 cu.ft.	
4 1/2	10.5&11.6#	7665	6 1/4	639 cu.ft.	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1 1/2	7589	

31. PERFORATION RECORD (Interval, size and number)

4814, 4819, 4824, 4917, 4921, 4925, 4930, 4956, 4960, 4975, 4979, 4985, 4989, 5006, 5061, 5092, 5121, 5130, 5134, 5178, 5185, 5230, 5253, 5256, 5258, 5261, 5324, 5340, 5364, 5368, 5372, 5389, 5392, 5403, 5408, 5412, 5424, 5435, 5440, 5444

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4814-5134	2380 bbl 2% KCl slk wtr
	90,000# 20/40 Brady sd
5178-5505	3533 bbl 2% KCl slk wtr
	150,600# 20/40 Brady sd

33. 5455, 5459, 5466, 5482, 5489, 5505

DATE FIRST PRODUCTION

12-4-96

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

Flowing

WELL STATUS (Producing or shut-in)

SI

DATE OF TEST

12-4-96

HOURS TESTED

CHOKE SIZE

PROD'N FOR TEST PERIOD

OIL-BBL

GAS-MCF

WATER-BBL

GAS-OIL RATIO

2624 Pitot Gauge

FLOW. TUBING PRESS.

SI 101

CASING PRESSURE

SI 661

CALCULATED 24-HOUR RATE

OIL-BBL

GAS-MCF

WATER-BBL

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

To be sold

TEST WITNESSED BY

JAN 02 1997

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED *[Signature]*

TITLE Regulatory Administrator

DATE 12-27-96

FARMINGTON DISTRICT OFFICE

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Ojo Alamo	2306'	2402'	ss.White cr-grn s.
Kirtland	2402'	2862'	Gry sh interbedded w/tight gry fine-grn ss.
Fruitland	2862'	3172'	Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
Pictured Cliffs	3172'	4145'	Gry, fine-grn tight, varicolored soft ss.
Chacra	4145'	4811'	Gry fn grn silty, glauconitic sd stone w/drck gry shale
Mesa Verde	4811'	4963'	Gry, fine-grn, dense sil ss., carb sh & coal
Menefee	4963'	5332'	Gry, fine-grn s, carb sh & coal
Point Lookout	5332'	5832'	Gry, very fine sil ss w/frequent sh breaks
Mancos	5832'	6351'	Gry carb sh.
Gallup	6351'	7298'	Lt gry to brn calc carb micac glauco very fine gry ss w/irreg.interbed sh
Greenhorn	7298'	7356'	Highly calc gry sh w/thin lmst.
Graneros	7356'	7513'	Dk gry shale, fossil & carb w/pyrite incl.
Dakota	7513'		Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay & shale breaks

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Ojo Alamo	2306'	
Kirtland	2402'	
Fruitland	2862'	
Pic.Cliffs	3172'	
Chacra	4145'	
Mesa Verde	4811'	
Menefee	4963'	
Pt.Lookout	5332'	
Mancos	5832'	
Gallup	6351'	
Greenhorn	7298'	
Graneros	7356'	
Dakota	7513'	

BURLINGTON RESOURCES

SAN JUAN DIVISION

December 23, 1996

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

RECEIVED
DEC 26 1996

OIL CON. DIV.
DIST. 3

Re: San Juan 29-7 Unit #123 
950'FSL, 1520'FEL Section 26, T-29-N, R-7-W, Rio Arriba County, NM
API #30-039-23620

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 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. The following allocation formula is submitted to the District Office for approval: Mesa Verde -89% gas and 100% oil; Dakota -11% gas and 0% oil. These percentages are based on isolated flow tests from the Mesa Verde and Dakota during completion operations.

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

PO BOX 4289 FARMINGTON, NM 87499

Operator

Address

SAN JUAN 29-7 UNIT

123

O-26 -29N-7W

RIO ARRIBA

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 014538 Property Code 7465 API NO. 30-039-23620 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)	Proposed: 4814'-5505'		7407'-7624'
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: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated or Measured Original	(Current) a. 549 psi (see attachment) (Original) b. 1310 psi (see attachment)	a. b.	a. 1199 psi (see attachment) b. 3184psi (see attachment)
6. Oil Gravity ($^{\circ}$ API) or Gas BTU Content	BTU 1205		BTU 1054
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 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: 100 % Gas: 89 %	Oil: % Gas: %	Oil: 0 % Gas: 11 %

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). Order R-10697

16. ATTACHMENTS:

- * C-7.102 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 12-19-96TYPE 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 Bravo 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

API Number 30-039-23620		Pool Code 72319/71599		Pool Name Blanco Mesaverde/Basin Dakota	
Property Code 7465		Property Name San Juan 29-7 Unit			Well Number 123
OGRID No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			Elevation 6360'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
0	26	29-N	7-W		950	South	1520	East	R.A.

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

¹² Dedicated Acres E/320 E/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

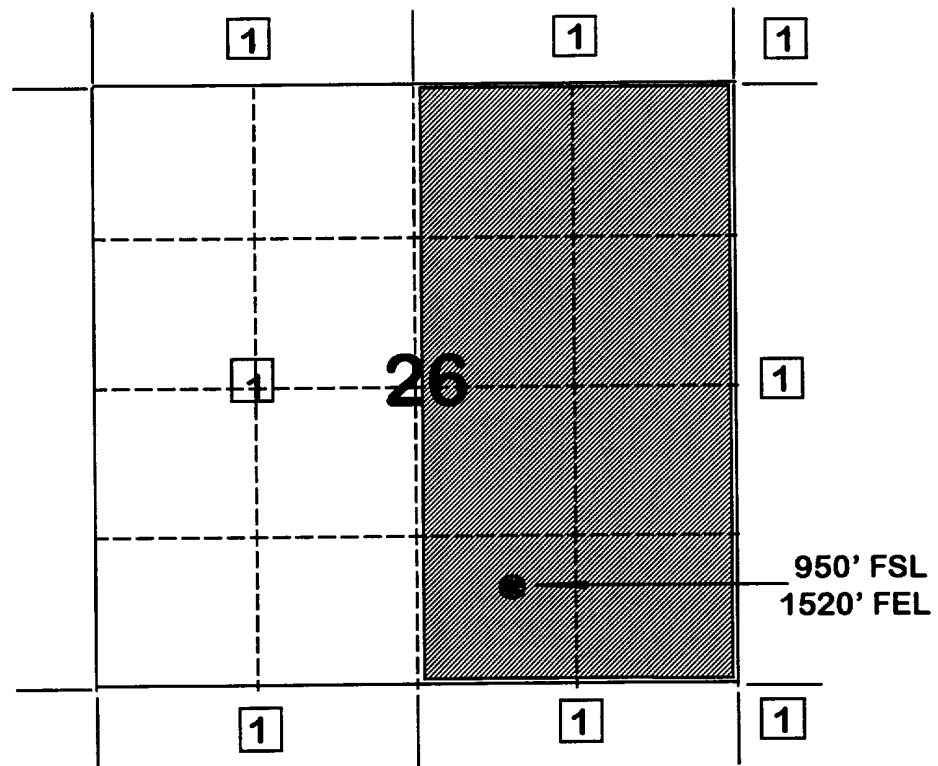
¹⁶ Not resurveyed, prepared from a plat by Fred B. Kerr, Jr. dated 8-1-79.		RECEIVED DEC 26 1996 OIL CON. DIV. DIST. 3 26 1520' 950'		¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 11-5-96 Date	
				¹⁸ SURVEYOR CERTIFICATION <i>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.</i> 11/04/96 Date of Survey Signature and Seal of Professional Surveyor NEALE C. EDWARDS NEW MEXICO 6887 Certificate Number	

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 29-7 Unit #123
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde/Dakota Formations Commingle Well

Township 29 North, Range 7 West



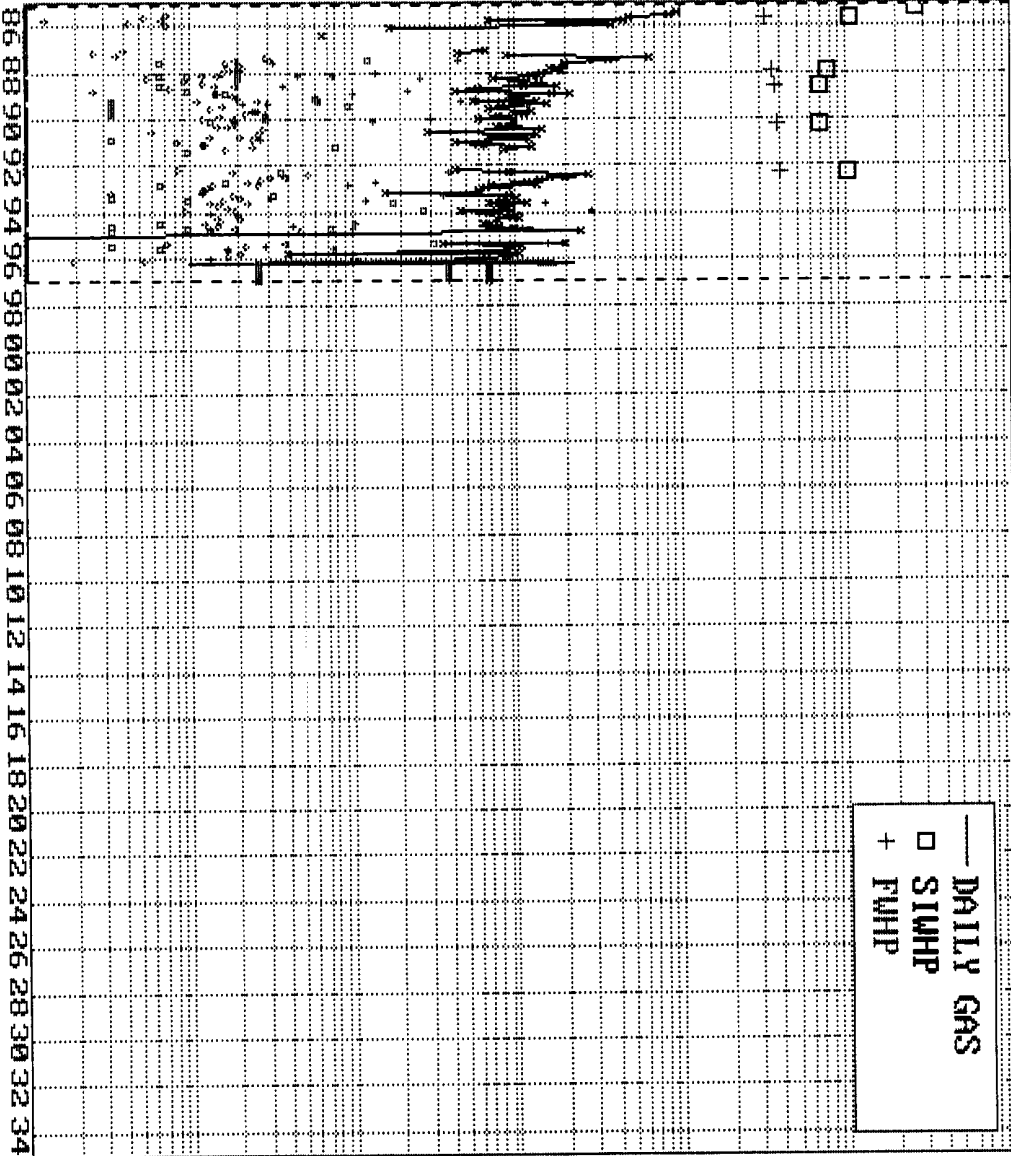
1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

DAKOTA

SAN JUAN 29-7 UNIT : 123 : 53762A-1

Prop 2091 *

0.1	1	10	100	1000	10000	* WATER
0.01	0.1	1	10	100	1000	* OIL/GAS
0.01	0.1	1	10	100	1000	* OIL
0.1	1	10	100	1000	10000	* GAS



— DAILY GAS
 □ SIWHP
 + FWHP

☒ * GAS Mcf/d
☐ * OIL Bbl/d
☐ * OIL/GAS
☐ * WATER Bbls/d
☒ Rate Time
☒ Semi Log

Major = GAS

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.708
COND. OR MISC. (C/M)	C
%N2	0.22
%CO2	0.94
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5468
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	477
BOTTOMHOLE PRESSURE (PSIA)	548.7

SAN JUAN 29-7 UNIT #58 MESAVERDE - CURRENT

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.708
COND. OR MISC. (C/M)	C
%N2	0.22
%CO2	0.94
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	5468
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1119
BOTTOMHOLE PRESSURE (PSIA)	1309.5

SAN JUAN 29-7 UNIT #58 MESAVERDE - ORIGINAL

Page No.: 1
 Print Time: Tue Oct 15 16:04:57 1996
 Property ID: 11085
 Property Name: SAN JUAN 29-7 UNIT | 58 | 69655-1
 Table Name: K:\ARIES\RR97PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
 ::::: :::::McF::::: :::::Psi:::::

01/06/57	0	1119.0	← original
02/26/57	0	1118.0	
01/15/58	154000	808.0	
10/29/58	304000	723.0	
02/22/59	367000	734.0	
12/22/60	635000	653.0	
03/28/61	662000	690.0	
03/13/62	767000	696.0	
02/12/63	851000	710.0	
02/07/64	954000	676.0	
02/25/65	1066000	664.0	
02/28/66	1201000	630.0	
03/03/67	1324000	619.0	
03/05/68	1443000	610.0	
05/27/69	1586390	568.0	
08/18/70	1757283	587.0	
03/30/71	1819346	575.0	
06/12/72	1962122	529.0	
07/09/73	2118911	437.0	
08/21/74	2249996	444.0	
04/20/76	2429090	439.0	
05/16/78	2630938	468.0	
07/18/80	2810685	497.0	
05/19/82	2951746	484.0	
09/19/84	3099375	505.0	
09/03/86	3237007	460.0	
09/07/89	3425030	500.0	
02/18/91	3490190	530.0	
05/31/91	3500165	542.0	
05/03/93	3615698	477.0	← current

Mesaverde Parent of
 29-7 # 123

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.619
COND. OR MISC. (C/M)	C
%N2	0.11
%CO2	1.55
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7593
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1012
BOTTOMHOLE PRESSURE (PSIA)	1198.7

SAN JUAN 29-7 UNIT #123 DAKOTA-CURRENT

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.619
COND. OR MISC. (C/M)	C
%N2	0.11
%CO2	1.55
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7593
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2664
BOTTOMHOLE PRESSURE (PSIA)	3184.3

SAN JUAN 29-7 UNIT #123 DAKOTA-ORIGINAL

Page No.: 1
Print Time: Tue Oct 15 16:02:56 1996
Property ID: 2091
Property Name: SAN JUAN 29-7 UNIT | 123 | 53762A-1
Table Name: K:\ARIES\RR97PDP\TEST.DBF

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

03/19/85	0	2664.0	← original
08/12/85	70345	1082.0	
12/04/87	182407	772.0	
08/03/88	213774	702.0	
04/09/90	276156	692.0	
04/29/92	312880	1012.0	← current

Euresting Dakota

**PRODUCTION ALLOCATION FORMULA USING FLOW TEST INFORMATION
AND ACTUAL PRODUCTION**

San Juan 29-7 Unit #123
(Mesaverde/Dakota)Commingle
Unit O, 26-T29N-R07W
Rio Arriba County, New Mexico

Allocation Formula Method:

3 Hour Flow Test from Mesaverde and Dakota = 597 MCFD & 2.5 BO

Actual 1996 average Dakota production = 45 MCFD & 0 BO

GAS:

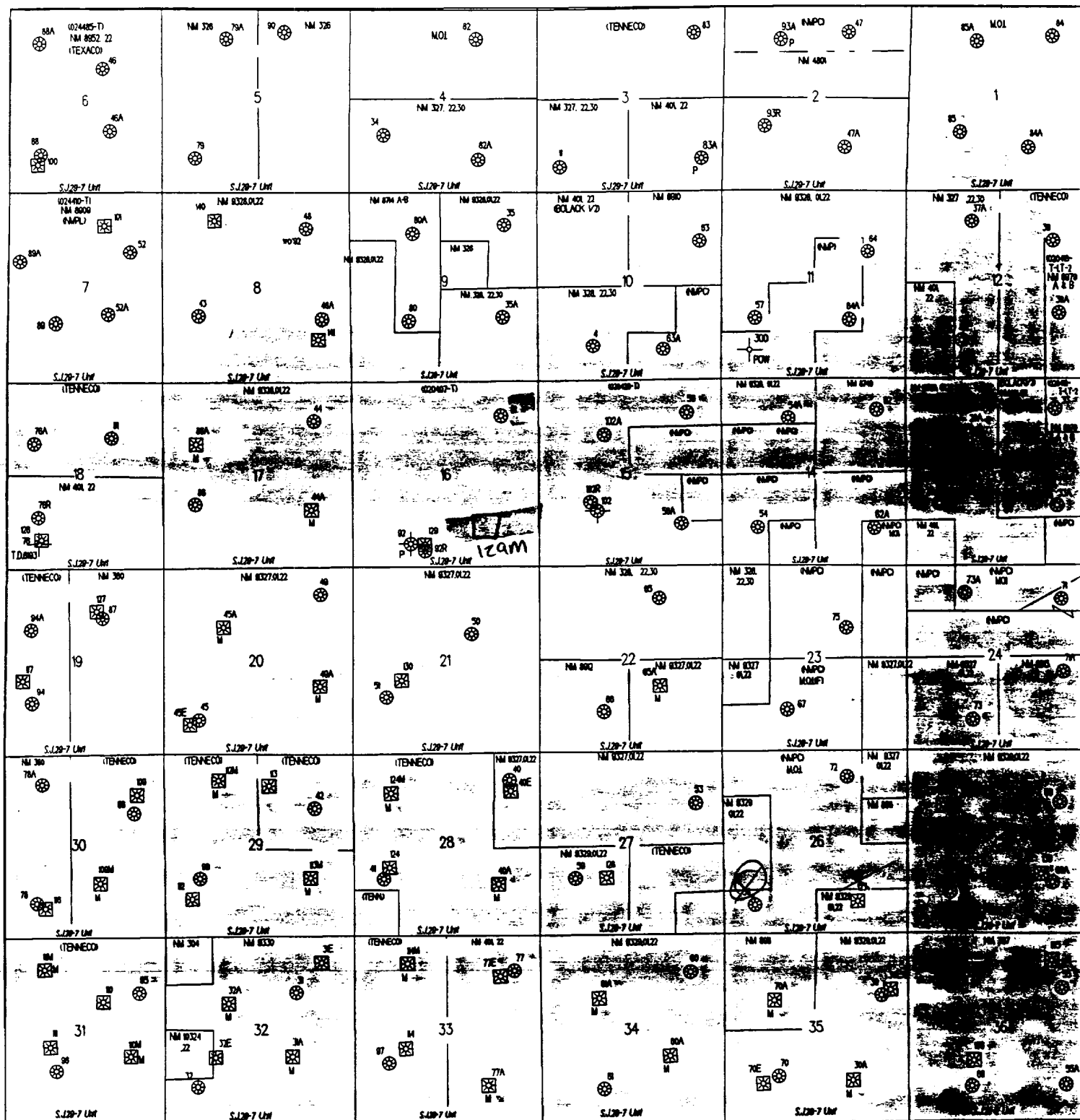
$$\frac{[(MV \& DK) 597 \text{ MCFD} - (DK) 68 \text{ MCFD}]}{(MV \& DK) 597 \text{ MCFD}} = (MV) \% \quad \text{Mesaverde } 89\%$$

$$\frac{(DK) 68 \text{ MCFD}}{(MV \& DK) 597 \text{ MCFD}} = (DK) \% \quad \text{Dakota } 11\%$$

OIL:

$$\frac{[(MV \& DK) 2.5 \text{ BO} - (DK) 0 \text{ BO}]}{(MV \& DK) 2.5 \text{ BO}} = (MV) \% \quad \text{Mesaverde } 100\%$$

$$\frac{(DK) 0 \text{ BO}}{(MV \& DK) 2.5 \text{ BO}} = (DK) \% \quad \text{Dakota } 0\%$$



SAN JUAN 29-7 UNIT

X - DK well to be recompleted
 ⊗ - MV offset