

DATE IN: 2/27/97	SUSPENSE: 3/19/97	ENGINEER: BS	LOGGED: MW	TYPE: AMEND DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

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]

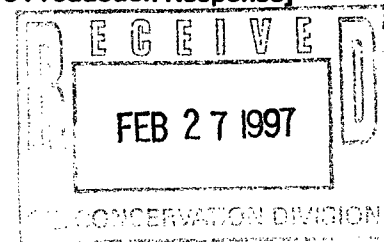
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[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  Regulatory/Compliance Administrator

Print or Type Name _____ Signature _____ Title _____

2-17-97
Date

BURLINGTON RESOURCES

SAN JUAN DIVISION

February 25, 1997

SENT FEDERAL EXPRESS

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

Re: Jicarilla 103 #8 (DHC-562)
790'FSL, 790'FEL Section 19, T-26-N, R-4-W, Rio Arriba County, NM
API #30-039-20268

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde with the Tapacitos Gallup and Basin Dakota pools in the subject well. This well has a commingling order DHC-562 for the Gallup and Dakota; the Mesa Verde was added and it is intended to commingle it with the Gallup and Dakota.

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 Gallup/Dakota commingled;
4. Notification list of offset operators;
5. Shut in wellhead pressure and calculated down hole pressure;
6. Nine-section plat.

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,



Peggy Bradfield
Regulatory/Compliance Administrator

xc: Bureau of Land Management

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 87505-6429

Form 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
Jicarilla 103 8 P 19-26-04 Rio Arriba
Lease Well No. Unit Ltr. - Sec - Twp - Rge County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7169 API NQ30-039-20268 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	Gallup & Dakota commingled under DHC 562 Tapacitos Gallup 58090	Gallup & Dakota commingled under DHC 562 Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4979-5526'	6992'-6998'	7514'-7670'
3. Type of production (Oil or Gas)	gas	gas	gas
4. Method of Production (Flowing or Artificial Lift)	flowing	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. 1311 psi (Est) (Original) b. 1311 psi (Est)	922 2938	psi psi
6. Oil Gravity (°API) or Gas BTU Content	BTU 1203	BTU	1198
7. Producing or Shut-In?	producing	Shut-In	Under CIBP
Production Marginal? (yes or no)	no	yes	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: Rates:	Date: 7/15/9 Rates: 41 MCFD, 0 BOPD, 0 BWPD	
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 2/16/97 Rates: 106 MCFD, 0 BOPD, 0 BWPD	Date: Rates:	Date: 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, attach 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. 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  TITLE Production Engineer DATE 2/25/97

TYPE OR PRINT NAME Lori Lantz TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
P.O. Drawer DD, Artesa, NM 88211-0719
District III
1000 Rio Hondo 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
Revised February
Instructions
Submit to Appropriate District
State Lease -
Fee Lease -

☐ AMENDED

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Post Code	Post Name
30-039-20268	72319/59090/71509	Blanco Mesaverde/Tapacito Gallup/ Basin Dakota
Property Code	Property Name	Well Name
7169	Jicarilla 103	8
OGRID No.	Operator Name	Elevation
14538	MERIDIAN OIL INC.	6715'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot idn	Feet from line	North/South line	Feet from line	East/West line	County
P	19	26 N	4 W		790	South	790	East	R.

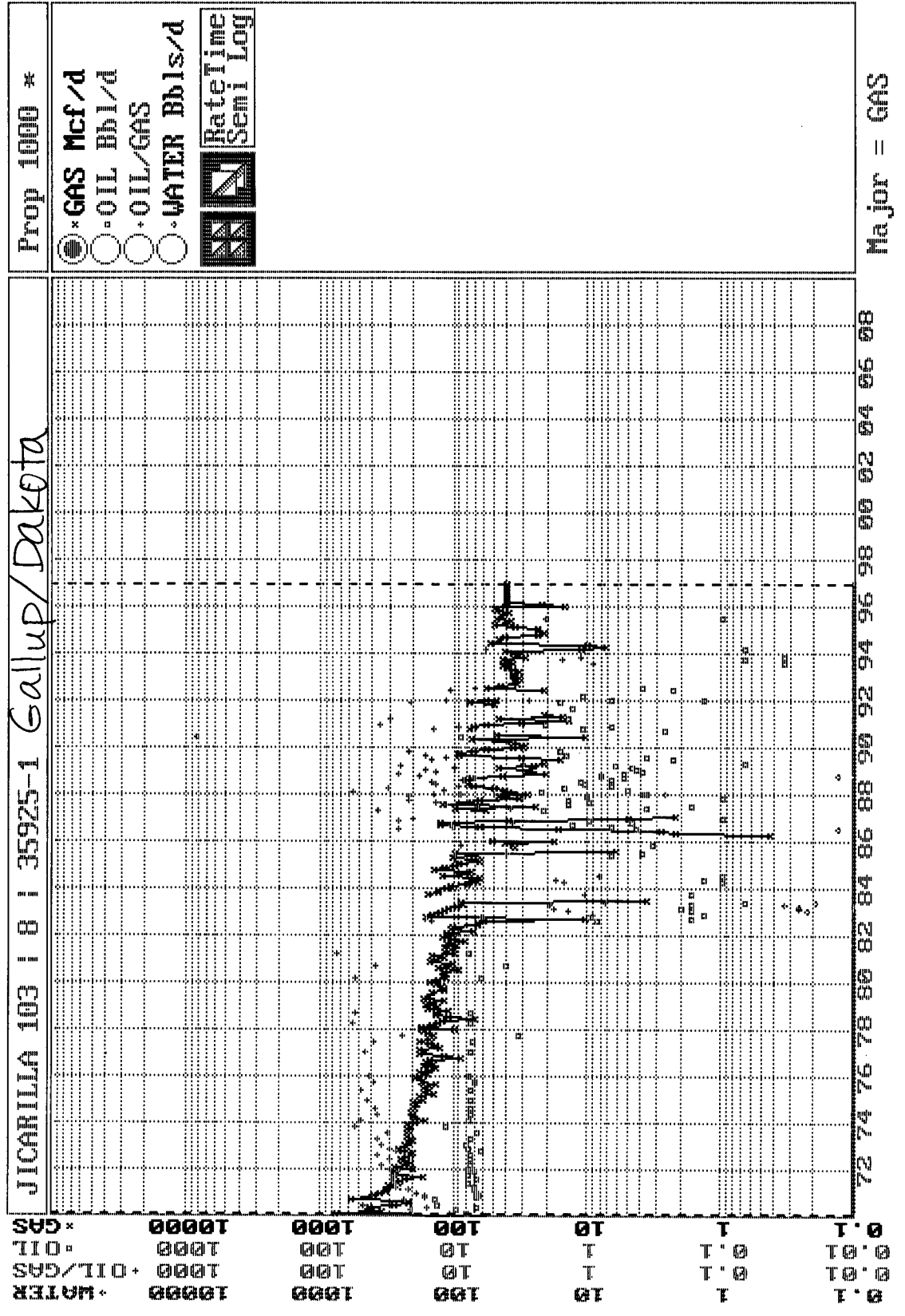
11 Bottom Hole Location if Different From Surface

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

12 Dedication Acres 13 Joint or Infill 14 Commencement Code 15 Order No.
E/320-E/320-160

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 dated 9-6-69 by James P. Leese.	17 OPERATOR CERTIFICATE I hereby certify that the information contained herein is true and correct to the best of my knowledge. Signature Peggy Bradfield Printed Name Regulatory Administrator Title 2-7-96 Date
18 SURVEYOR CERTIFICATE I hereby certify that the well location shown on this plat was placed from field notes of actual surveys or under my supervision, and that the same is correct to the best of my belief. 2-6-96 Date of Survey Signature and Seal of Professional Surveyor Certificate Number 8857	

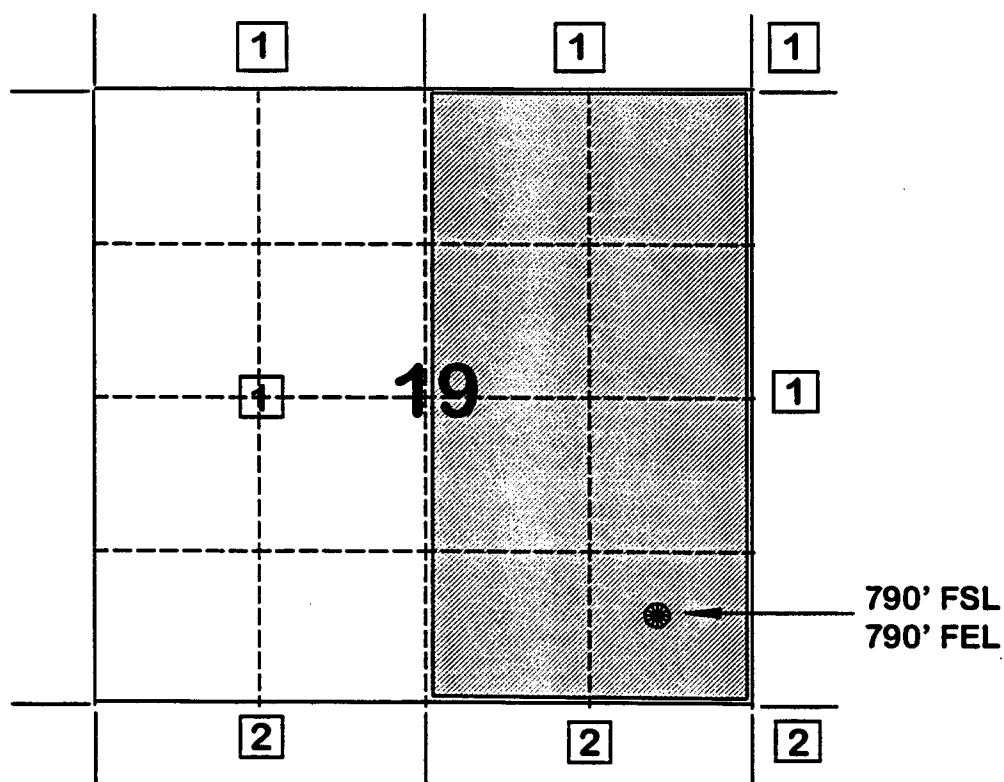


BURLINGTON RESOURCES OIL AND GAS COMPANY

**Jicarilla 103 #8
OFFSET OPERATOR \ OWNER PLAT**

Gallup/Mesaverde/Dakota Formations Commingle Well

Township 26 North, Range 4 West



- 1) Burlington Resources Oil and Gas Company
- 2) Conoco Inc.
10 Desta Drive, Suite 100W
Midland, TX 79705-4500

Page No.: 1

Print Time: Fri Feb 07 13:24:15 1997

Property ID: 1000

Property Name: JICARILLA 103 | 8 | 35925-1

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

Dakota/Gallup

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

10/08/69	0	2384.0
06/19/70	69716	1520.0
08/25/71	200306	1126.0
04/17/72	260447	1055.0
06/02/73	349005	904.0
04/16/75	478062	795.0
05/02/77	596467	823.0
06/01/79	699316	716.0
09/25/81	797062	756.0
04/25/83	853903	709.0
07/03/85	922216	705.0
01/12/88	957465	766.0

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.693
COND. OR MISC. (C/M)	M
%N2	0.8
%CO2	0.73
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	7331
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	190
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2384
BOTTOMHOLE PRESSURE (PSIA)	2937.9

Jicarilla 103 #8
Gallup / Dakota Initial Pressure

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.693
COND. OR MISC. (C/M)	M
%N2	0.8
%CO2	0.73
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	7331
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	190
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	766
BOTTOMHOLE PRESSURE (PSIA)	921.9

Jicarilla 103 #8
Gallup / Dakota Current Pressure

Page No.: 1

Print Time: Fri Feb 07 13:25:51 1997

Property ID: 3033

Property Name: JICARILLA 103 | 11 | 35932-1

Mesaverde

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

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

07/10/79	0	1121.0
09/08/79	46178	1043.0
08/24/80	185081	702.0
08/16/81	286030	675.0
07/24/82	352402	563.0
05/29/84	457583	668.0
10/31/89	669058	792.0
05/14/91	710767	799.0
09/10/91	711595	811.0
07/27/93	792258	590.0

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.696
COND. OR MISC. (C/M)	M
%N2	0.67
%CO2	0.85
%H2S	0
DIAMETER (IN)	2.875
DEPTH (FT)	5252
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	120
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1121
BOTTOMHOLE PRESSURE (PSIA)	1310.6

Jicarilla 103 #8
Mesaverde Initial Pressure

FDG055M4 GF14

WELL PRODUCTION 8/8'S VOLUME

02/24/97 14:32:48

DP NO: 35925B

DATE: 970216 (YYMMDD FORMAT)

JICARILLA 103

8 SCROLL FORWARD BY DATE: _

S

E	DATE	HOURS	-OIL PRODN-	-GAS PRODN-	-WATER PRODN-		
L	PRODUCED	ON	(BOPD	(MCFD	(BWPD		
			BOPM)	MCFM)	BWPM)		
—	02/16/97	24.0	0.00	106	1711	0.00	0.00
—	02/15/97	24.0	0.00	106	1605	0.00	0.00
—	02/14/97	24.0	0.00	106	1499	0.00	0.00
—	02/13/97	24.0	0.00	106	1393	0.00	0.00
—	02/12/97	24.0	0.00	106	1287	0.00	0.00
—	02/11/97	24.0	0.00	106	1181	0.00	0.00
—	02/10/97	24.0	0.00	164	1075	0.00	0.00
—	02/09/97	24.0	0.00	164	911	0.00	0.00
—	02/08/97	24.0	0.00	164	747	0.00	0.00
—	02/07/97	24.0	0.00	164	583	0.00	0.00
—	02/06/97	24.0	0.00	164	419	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU
B MY JOB

PF6=NRI
ENTER=BACKWARDS
LU #16

PF10=BROWSE MENU

PF11=INQ/UPDATE MENU
PF24=HELP

Mesavende

DATE: 02/07/97
TIME: 16:26:49
336

DP: 35925 COUNTY: RIO ARriba
STATE: NEW MEXICO

MERIDIAN OIL COMPANY
GAUGE AND PRODUCTION REPORT

July 1996

EVS630NB-A
PAGE: 1

DS NO/DS NAME: 11463A / JICARILLA 103 008
FIELD: BASIN DAKOTA (PRORATED GAS)

MP-NO: 37136
GAS

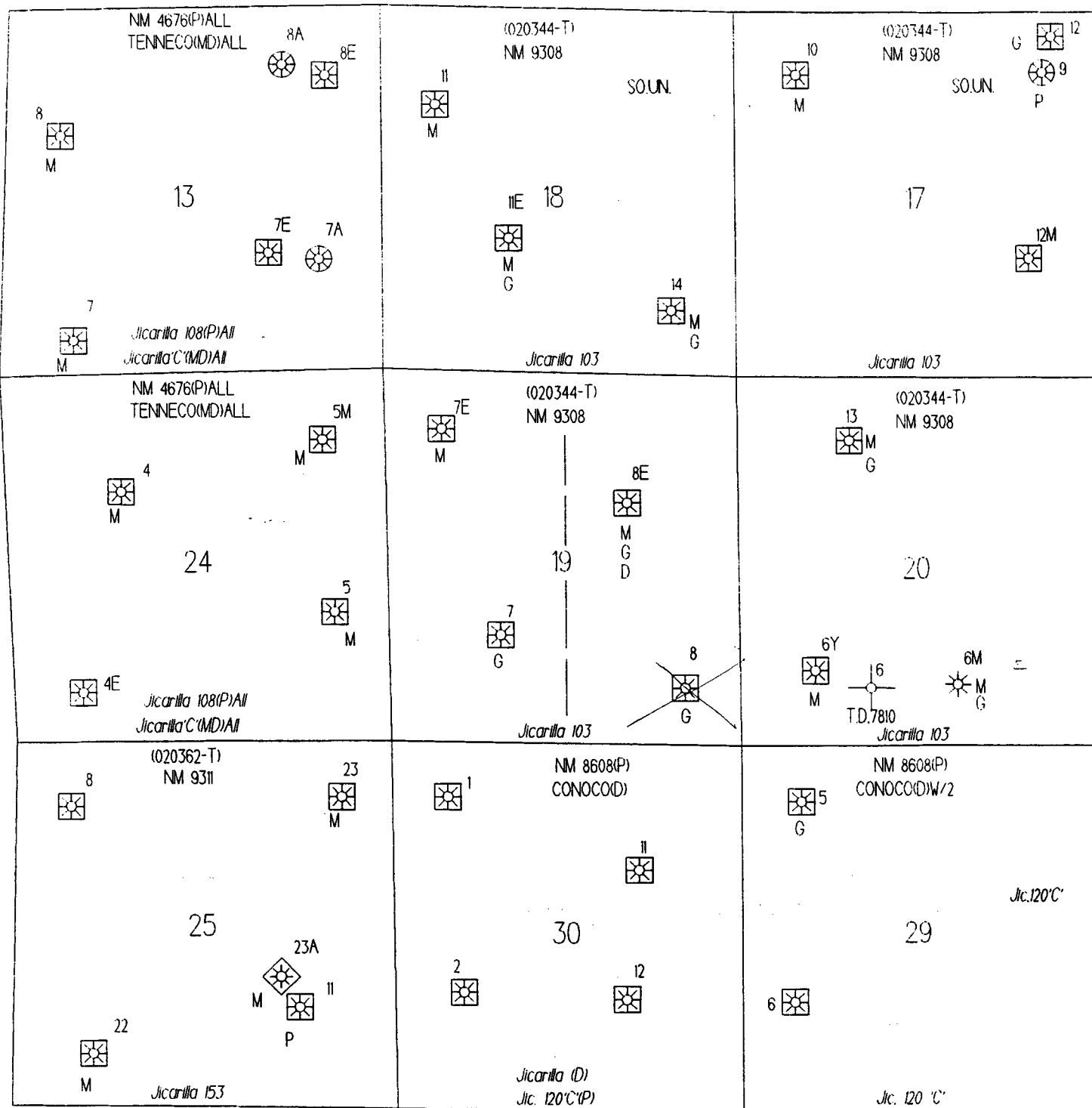
DAY	DAILY (MCF)	M T D (MCF)
1	41	41
2	41	82
3	41	123
4	41	164
5	41	205
6	41	246
7	41	287
8	41	328
9	41	369
10	41	410
11	41	451
12	41	492
13	41	533
14	41	574
15	41	615
16	0	615
17	0	615
18	0	615
19	0	615
20	0	615
21	0	615
22	0	615
23	0	615
24	0	615
25	0	615
26	0	615
27	0	615
28	0	615
29	0	615
30	0	615
31	0	615

MONTH TOTAL 615

JICARILLA 103 #8

SECTION 19P. T26N. R04W

RIO ARRIBA CO., NEW MEXICO



- | | | | |
|--|----------------------|--|----------------|
| | FRUITLAND SAND WELL | | MESAVERDE WELL |
| | FRUITLAND COAL WELL | | DAKOTA WELL |
| | PICTURED CLIFFS WELL | | GALLUP WELL |