

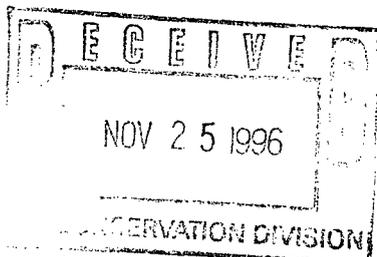
BURLINGTON RESOURCES

SAN JUAN DIVISION

DHC 12/16/96
Release Dab,
11/2/96 No other

November 22, 1996

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



1414

Re: San Juan 27-5 Unit #49
1090'FNL, 800'FEL Section 18, T-27-N, R-5-W, Rio Arriba County, NM
API #30-039-07089

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the South Blanco Pictured Cliffs and Blanco Mesa Verde pools in the subject well. This is currently a Pictured Cliffs/Mesa Verde dual completion.

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 both the Pictured Cliffs and Mesa Verde 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 Pictured Cliffs and Mesa Verde.

Notification of Pictured Cliffs and Mesa Verde interest owners is covered under Order #R-10694 issued November 12, 1996.

Because we are adding pay in the Mesa Verde, a fixed percent allocation cannot be calculated at this time. Allocation will be based on percentage of pitot gauge obtained during workover.

Please let me know if you require additional data.

Sincerely,

A handwritten signature in cursive script, appearing to read "Peggy Bradfield".

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 87505-6429

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

APPROVAL PROCESS :

Administrative
 Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

YES NO

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

San Juan 27-5 Unit

49

A-18-27N-5W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7454 API NO. 30-039-07089 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	South Blanco Pictured Cliffs - 72439		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	3312-3342'		5005-5608'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	(Current) a. 277 psi	a.	a. 489 psi
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1184 psi	b.	b. 1279 psi
6. Oil Gravity (°API) or Gas BTU Content	BTU 1149		BTU 1224
7. Producing or Shut-in?	producing		Shut-in
Production Marginal? (yes or no)	yes		yes
* If Shut-in and oil/gas/water rates of last production	Date: Rates:	Date: Rates:	Date: 8-21-96 Rates: 76 MCF/D
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 9-29-96 Rates: 23 MCF/D	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)			

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) R-10694

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 10-2-96

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

Well Location and Acreage Dedication Plat

Date MAY 10, 1960

Section A.

Operator EL PASO NATURAL GAS COMPANY Lease SAN JUAN 27-5 UNIT SF 079391
 Well No. 19(PM) Unit Letter A Section 18 Township 27-N Range 5-W NMPM
 Located 1090 Feet From NORTH Line, 800 Feet From EAST Line
 County RIO ARRIBA G. L. Elevation 6554 Dedicated Acreage 160 & 320 Acres
 Name of Producing Formation PICTURED CLIFFS & MESA VERDE Pool SO. BLANCO FC EXT. & BLANCO MV

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?
 Yes _____ No X
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes X No _____. If answer is "yes", Type of Consolidation.

Unit Agreement

3. If the answer to question two is "no", list all the owners and their respective interests below:

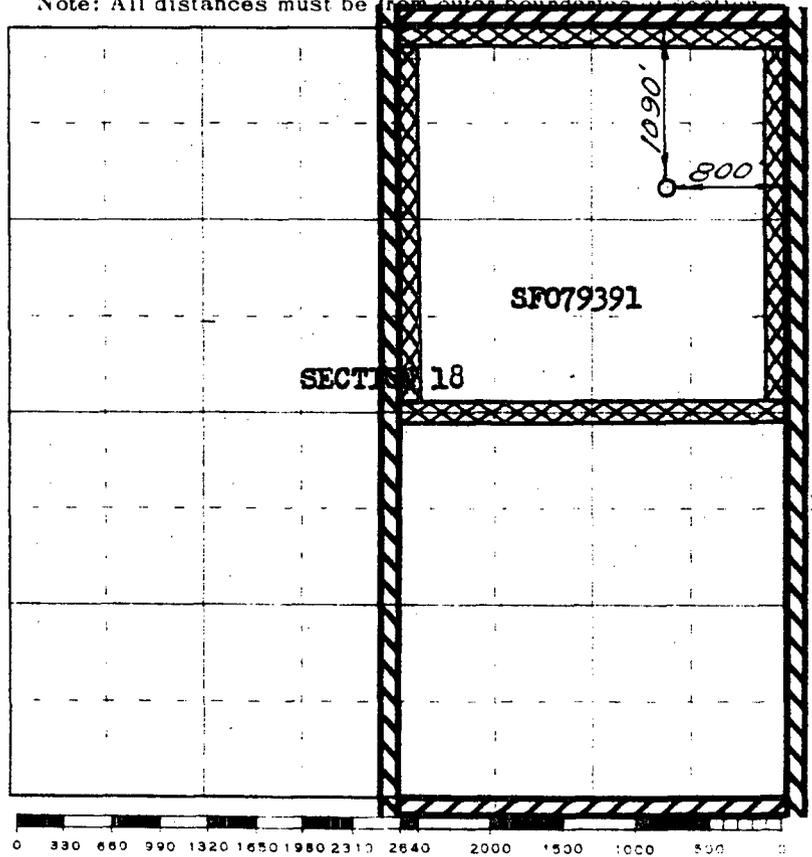
<u>Owner</u>	<u>Land Description</u>

Section B.

Note: All distances must be from outer bounding line of location

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

El Paso Natural Gas Company
 (Operator)
ORIGINAL SIGNED J.J. TILLERSON
 (Representative)
Box 997
 (Address)
Farmington, New Mexico



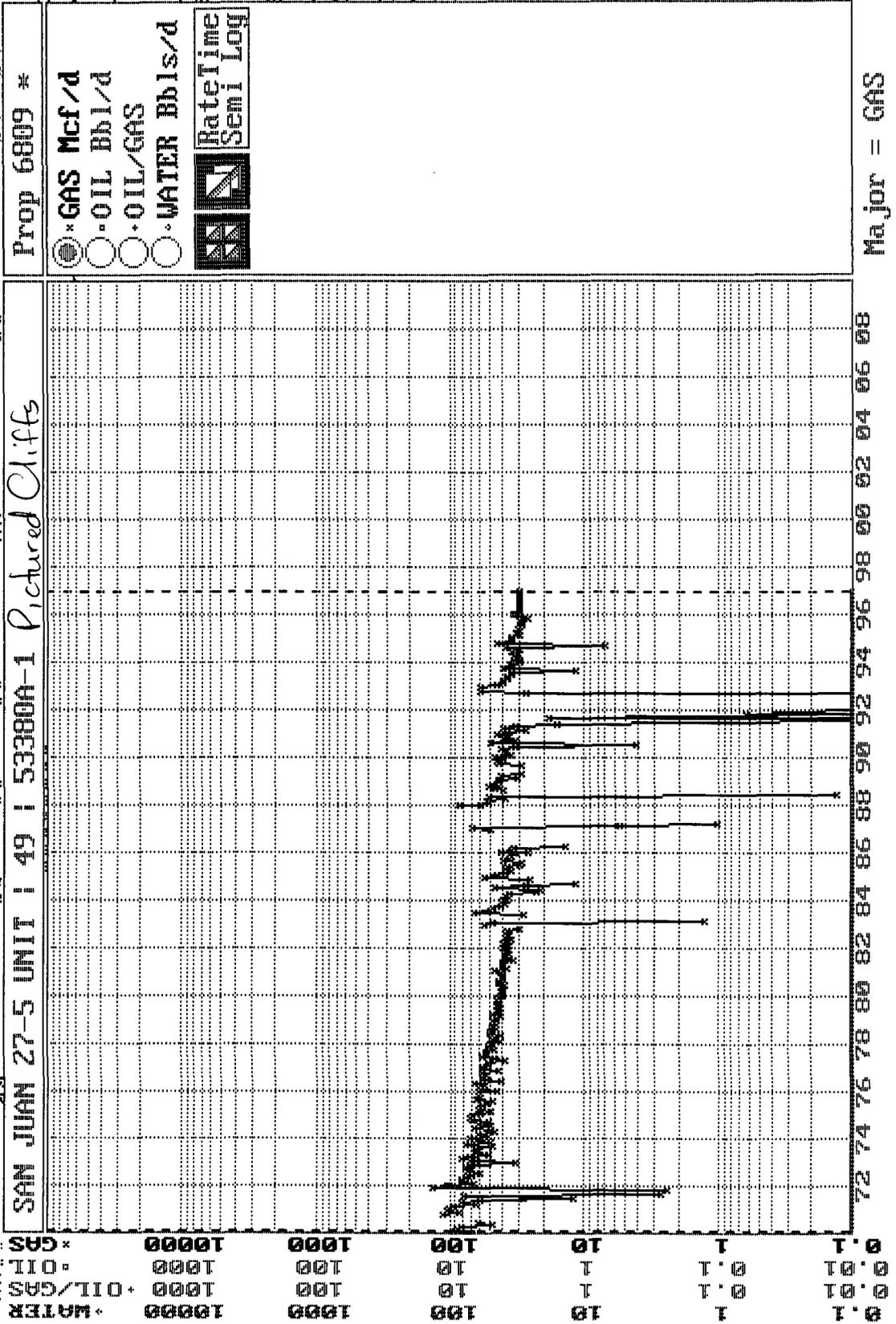
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

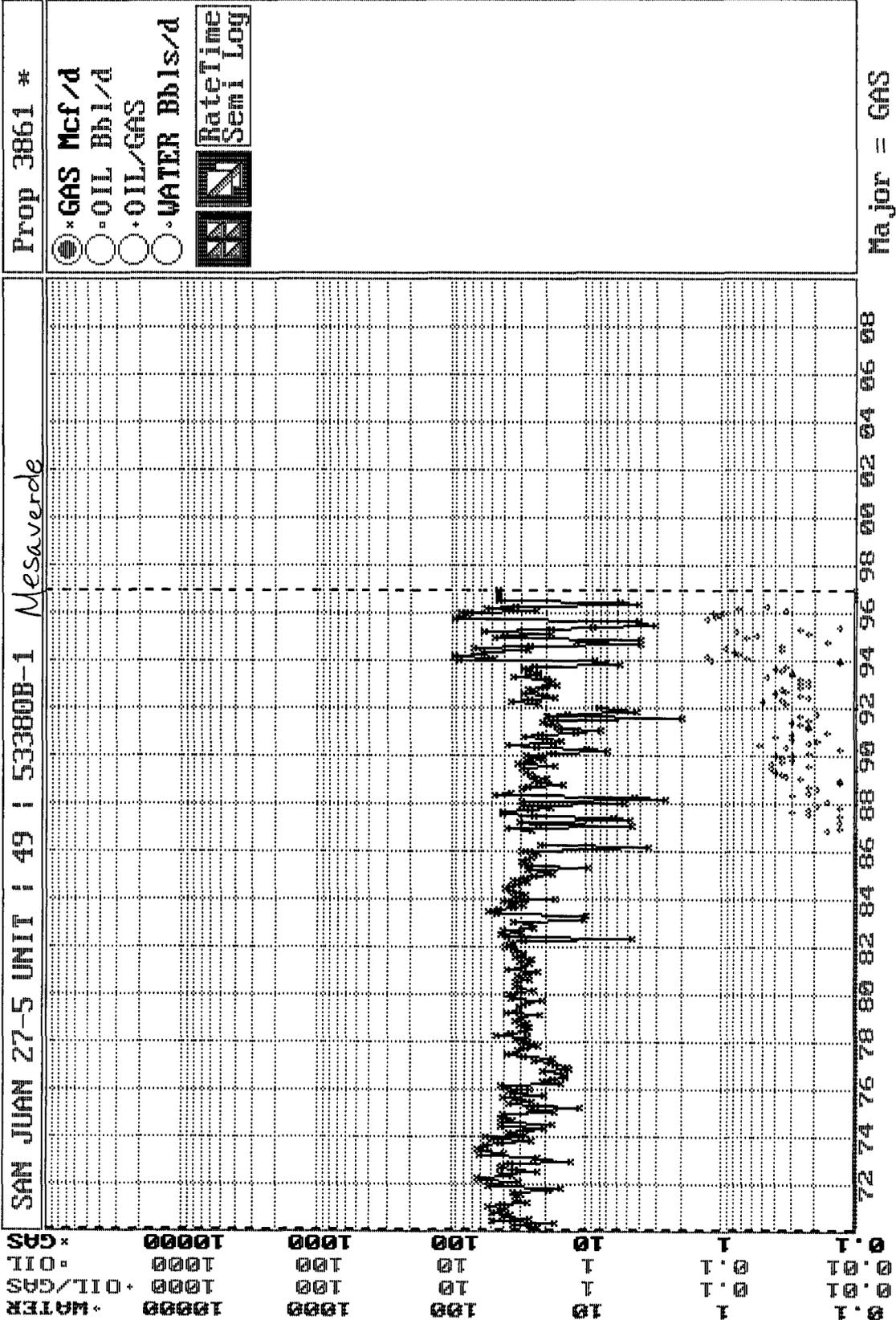
(Seal)

Farmington, New Mexico

Date Surveyed FEBRUARY 15, 1960

David R. Tiller
 Registered Professional Engineer and/or Land Surveyor



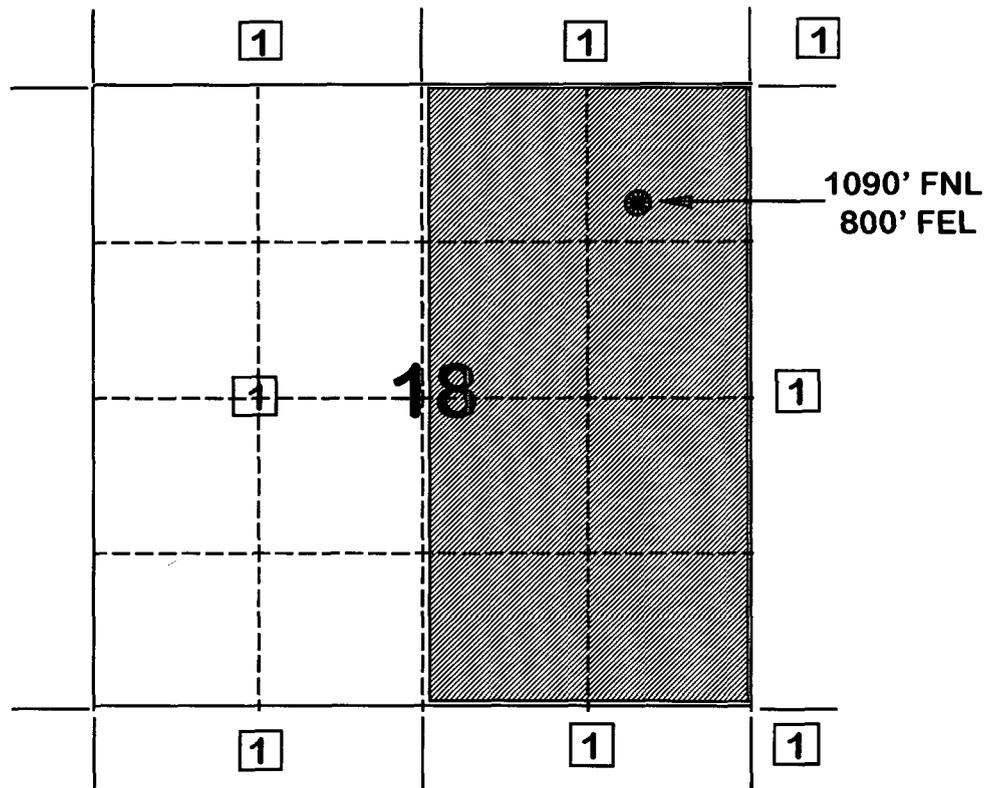


BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 27-5 Unit #49
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde (E/2) / Pictured Cliffs (NE/4) Formations Commingle Well

Township 27 North, Range 5 West



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

: 27-5 # 49 Initial Pc

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.639
COND. OR MISC. (C/M)	M
%N2	0.34
%CO2	0.43
%H2S	0
DIAMETER (IN)	2.441
DEPTH (FT)	3312
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	1000
SURFACE PRESSURE (PSIA)	1082
BOTTOMHOLE PRESSURE (PSIA)	1184.3

27-5 #49 Current PC

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.639
COND. OR MISC. (C/M)	M
%N2	0.34
%CO2	0.43
%H2S	0
DIAMETER (IN)	2.441
DEPTH (FT)	3312
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	1000
SURFACE PRESSURE (PSIA)	248
BOTTOMHOLE PRESSURE (PSIA)	276.7

27-5 #49 Initial MV

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.702</u>
COND. OR MISC. (C/M)	<u>M</u>
%N2	<u>0.3</u>
%CO2	<u>0.79</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.441</u>
DEPTH (FT)	<u>5005</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>120</u>
FLOWRATE (MCFPD)	<u>1000</u>
SURFACE PRESSURE (PSIA)	<u>1098</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1279.3</u>

27-5 #49 Current MV

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.702
COND. OR MISC. (C/M)	M
%N2	0.3
%CO2	0.79
%H2S	0
DIAMETER (IN)	2.441
DEPTH (FT)	5005
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	120
FLOWRATE (MCFPD)	1000
SURFACE PRESSURE (PSIA)	422
BOTTOMHOLE PRESSURE (PSIA)	489.4

REQUESTED RECORD NOT FOUND (NEXT RECORD DISPLAYED)

OPR008M1 0782

0008 CHROMATOGRAPH TEST MAIN SCREEN

18:26:29.6 10/01/96

FUNCTION (A,C,D,I) I ** DATA AT TEST PRESSURE UNLESS NOTED **
 MP NUMBER 72842 SAN JUAN 27-5 UNIT 49 (PC)
 EFFECTIVE DATE 19950801
 REGION CD 42 SAN JUAN
 MP TYPE CODE 10 GAS METER - WELLHEAD SALES

 SAMPLE TYPE CODE (GAS,LIQ,BTU) GAS ----- BTU/CF -----
 SAMPLE DATE 19950801 --- (AT 14.73 PSIG) --
 SAMPLE LINE PRESSURE (PSIG) _____ WET 1109.371 DRY 1129.000
 SAMPLE LINE TEMPERATURE (DEG F) _____
 TEST DATE _____ ----- BTU/CF -----
 TEST PRESSURE (PSIG) 14.730 WET 1109.371 DRY 1129.000
 TEST TEMPERATURE (DEG F) 60 VAPOR FACTOR _____
 TEST LIFE (MONTHS) 6
 TESTER SOURCE BA NUMBER 888029 EL PASO NATURAL GAS
 TEST PURPOSE CODE _____

 03=DETAIL SCR 04=MP-NM BRWS 06=MP/DS LST 07=MP/WN LST
 11=PREV SCR 12=MAIN MENU 20=NEXT REC
 21=REFRESH SCR 22=PREV MENU 24=HELP PA1=TERMINATE
 B MY JOB LU #2

OPR008M2 0782

0008 CHROMATOGRAPH GAS SAMPLE DETAIL

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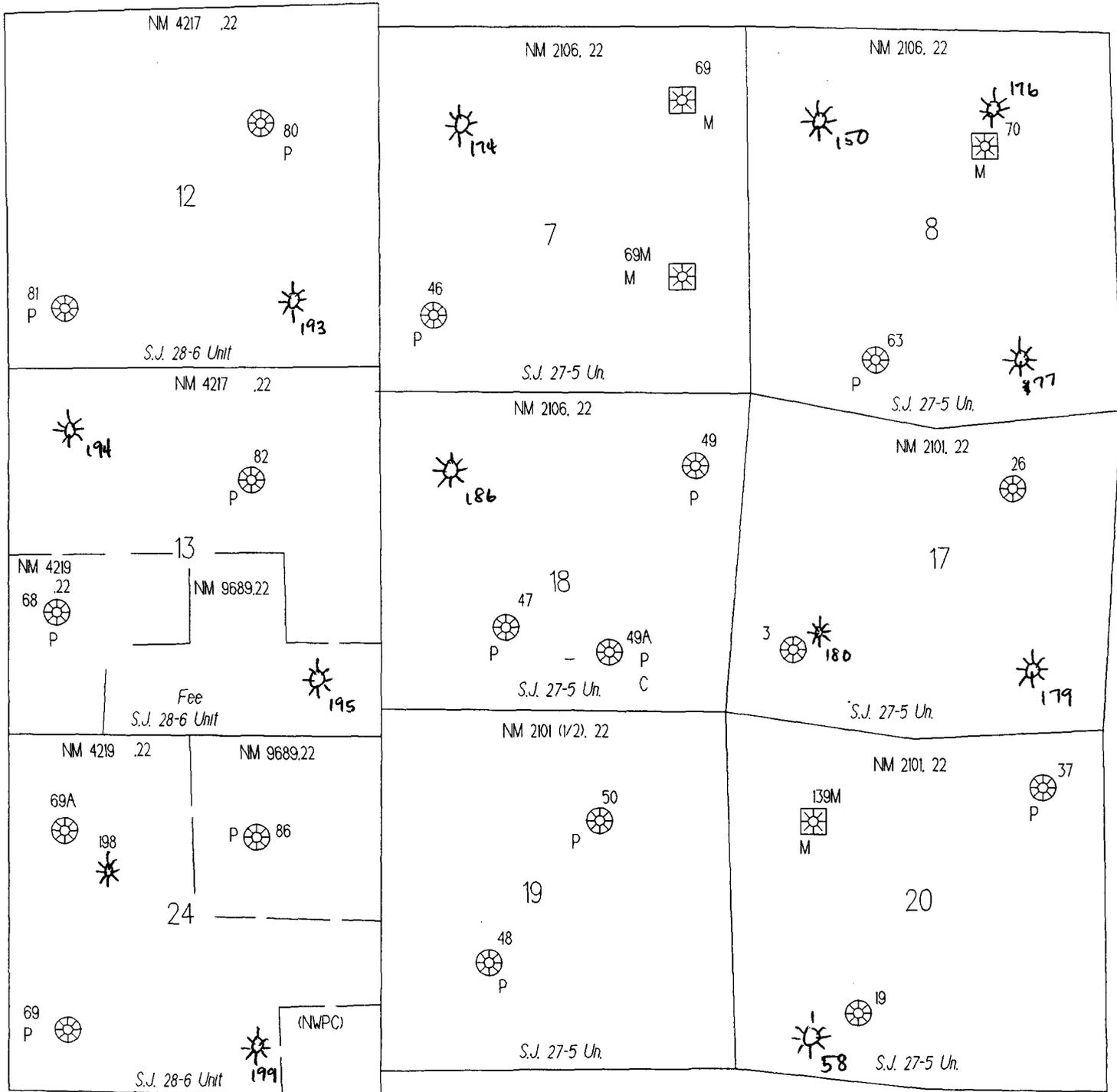
GPM ** DATA AT 14.730 PSIG UNLESS NOTED **
 MOL % (AT 14.73)
 HYDROGEN _____ MP NUMBER 72842
 HELIUM _____ EFFECTIVE DATE 19950801
 NITROGEN 0.34
 OXYGEN _____
 HYDROGEN SULFIDE _____ -- GASOLINE CONTENT (GPM) --
 CARBON DIOXIDE 0.43 26/70 GASOLINE _____
 METHANE 89.86 100% PROPANE _____
 ETHANE 5.22 1.3964 EXCESS BUTANES _____
 PROPANE 2.57 0.7083 TOTAL _____
 ISO-BUTANE 0.46 0.1505
 N-BUTANE 0.57 0.1797
 ISO-PENTANE 0.18 0.0659 ----- SPECIFIC GRAVITY -----
 N-PENTANE 0.12 0.0435 CALCULATED 0.6390
 HEXANE _____ MEASURED _____
 HEXANE PLUS 0.25 0.1091
 HEPTANE PLUS _____
 TOTALS 100.00 2.6534 SULPHUR GRAINS / 100 CU FT _____

 03=MAIN SCREEN 24=HELP PA1=TERMINATE
 B MY JOB NUM LU #2

SAN JUAN 27-5 UNIT #49

SECTION 18, T27N, R5W

RIO ARRIBA CO., NEW MEXICO



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