DHC 10/15/96

1398

BURLINGTON RESOURCES

SAN JUAN DIVISION

RECEIVED
OCT 16 1996
OIL CONSERVATION DIVISION

October 15, 1996

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

Re: Mexico Federal R #1
1830'FNL, 790'FEL Section 12, T-31-N, R-13-W, San Juan County, NM
API #30-045-22126

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 currently a dual Mesa Verde/Dakota well.

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 Dakota and Mesa Verde for at least one year;
4. Notification list of offset operators;
5. Shut in wellhead pressure and calculated down hole pressure;
6. Nine-section plats for the Mesa Verde and Dakota.

The ownership for both the Mesa Verde and Dakota are common in this well. No notification to interest owners is required.

The allocation formula is included, showing 83% from the Mesa Verde and 17% from the Dakota formation.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield

Peggy Bradfield
Regulatory/Compliance Administrator

encs.

3535 East 30th St., 87402-8891, P.O. Box 4289, Farmington, New Mexico 87499-4289, Telephone 505-326-9700, Fax 505-326-9833

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

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS :
_X_ Administrative
___Hearing

EXISTING WELLBORE
_X__ YES ___ NO

Burlington Resources Oil & Gas Company — PO Box 4289, Farmington, NM 87499
Operator — Address

Mexico Federal R | 1 | I-12-31N-13W | San Juan
Lease | Well No. | Unit Ltr. - Sec - Twp - Rge | County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. _14538__ Property Code _7311____ API NO. 30-045-22126___Federal _X___ , 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)	4484-4524'		6665-6890'
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. 653 psi, (see attachment)	a.	a.1051 psi (see attachment)
	(Original) b 1106 psi (see attachment)	b.	b. 1450 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1209		BTU 1143
7. Producing or Shut-In?	shut-in		producing
Production Marginal? (yes or 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: 3-96 Rates: 30 MCF/D	Date: Rates:	Date:1988 Rates: 53 MCF/D
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % Will be supplied when completed	Oil: % Gas: %	Oil: % Gas: % Will be supplied when completed

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? _X_Yes ___No
If not, have all working, overriding, and royalty interests been notified by certified mail? _X_Yes ___No
Have all offset operators been given written notice of the proposed downhole commingling? _X_Yes ___No

11. Will cross-flow occur? _X__ __ 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. _X____ Yes _____No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? _X__ Yes ___ No

13. Will the value of production be decreased by commingling? ___ Yes _X_ 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. _X_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 Bradfield TITLE_RegulatoryAdministrator_DATE 10-14-96_____

TYPE OR PRINT NAME _Peggy Bradfield___ TELEPHONE NO. (505__) 326-9700_____

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

File

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the section.

Operator	Lease	Well No.
Getty Oil Company	Mexico - Federal "R"	1

Unit Letter	Section	Township	Range	County
H	12	31N	13W	San Juan

Actual Footage Location of Well:
1830 feet from the North line and 790 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5799'	Dakota	Basin	320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

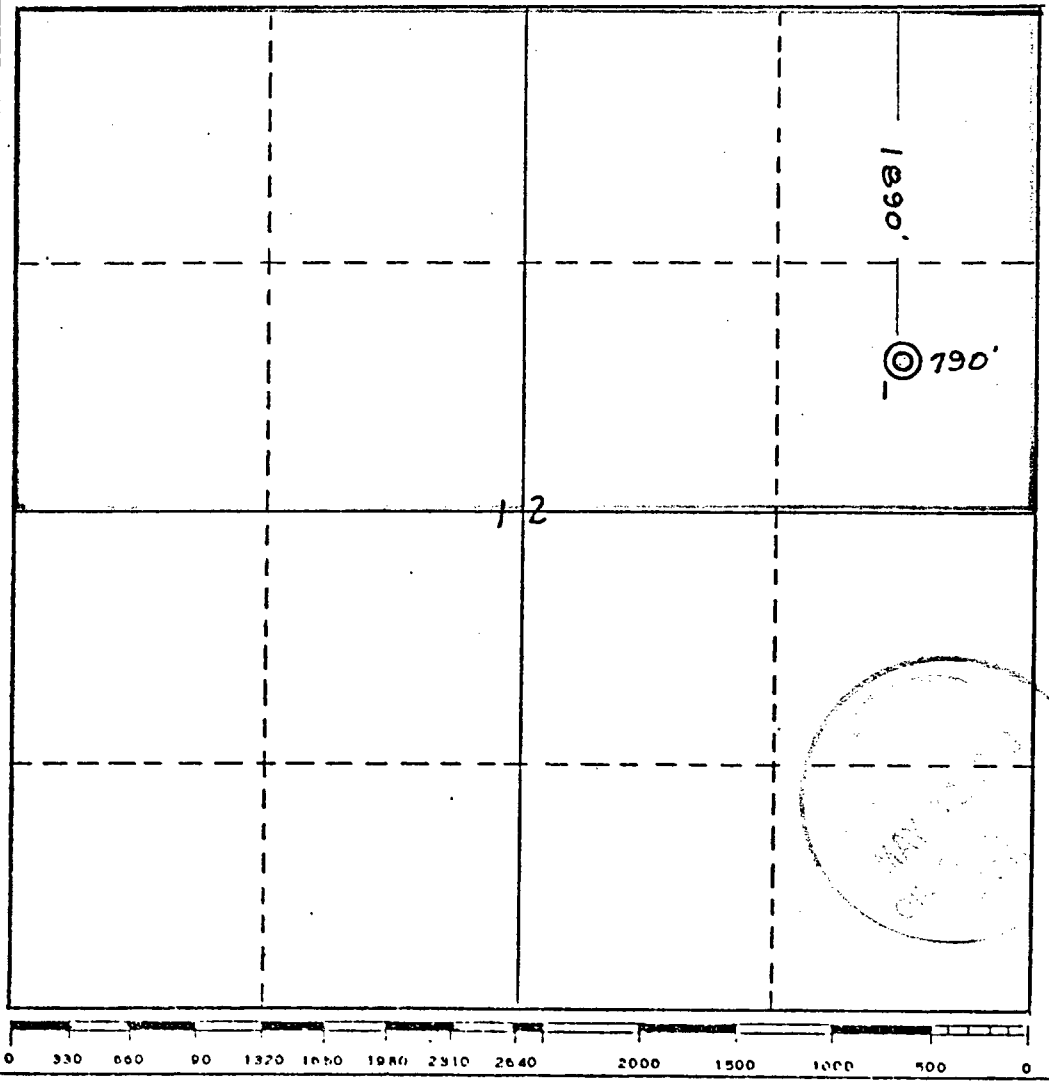
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

[X] Yes [ ] No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

H. E. Aab

Name: H. E. Aab

Position: Area Superintendent

Company: Getty Oil Company

Date: May 22, 1978

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 knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.

RECEIVED
JUN 26 1978
CASPER AREA
E&P DEPARTMENT

DEA 6-30-78
CMCM 6-10-78
RW

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

File

Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator	Lease	Well No.
Getty Oil Co.	Mexico Federal R	1

Unit Letter	Section	Township	Range	County
H	12	31N	13W	San Juan

Actual Footage Location of Well:
1830 feet from the North line and 790 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5799	Mesaverde	Blanco Mesaverde	N 320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

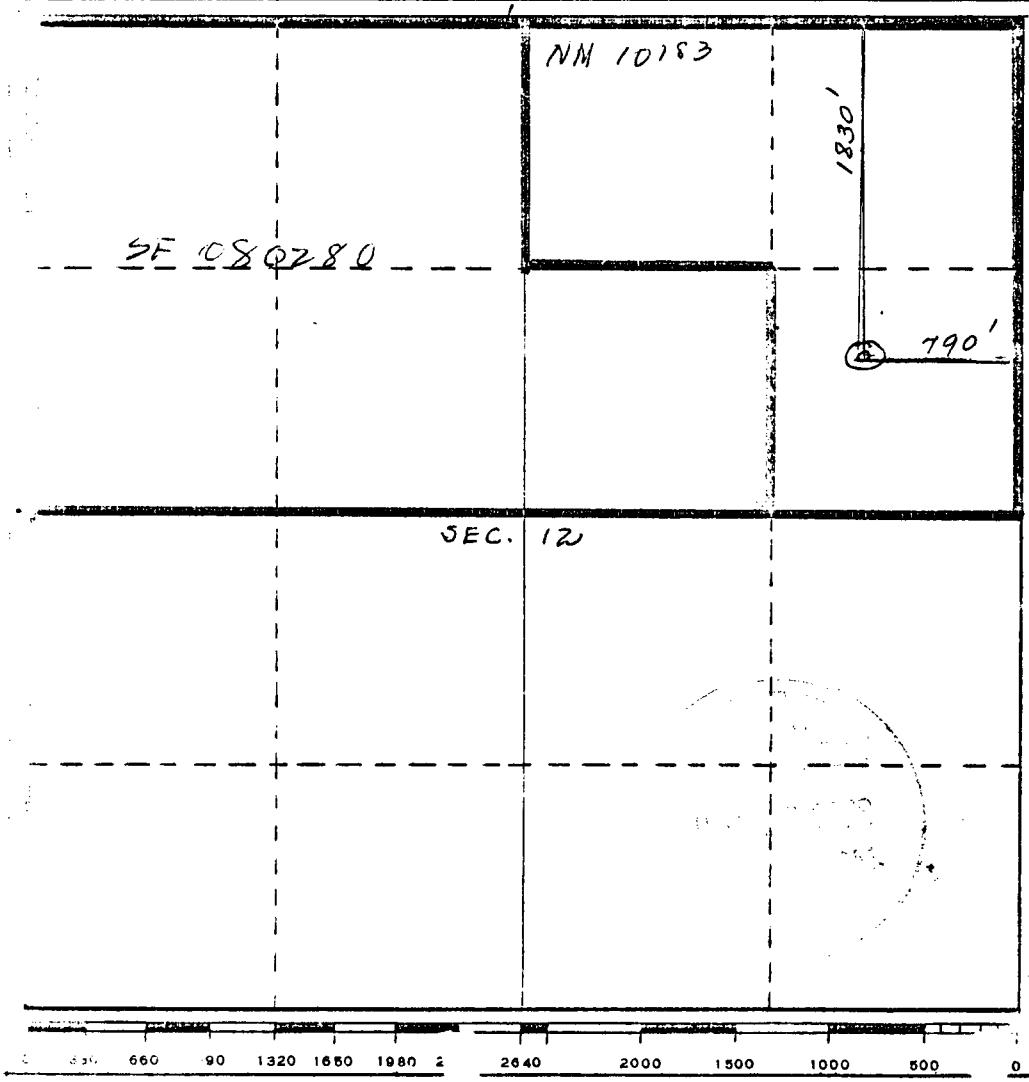
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☑ Yes ☐ No If answer is "yes," type of consolidation communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

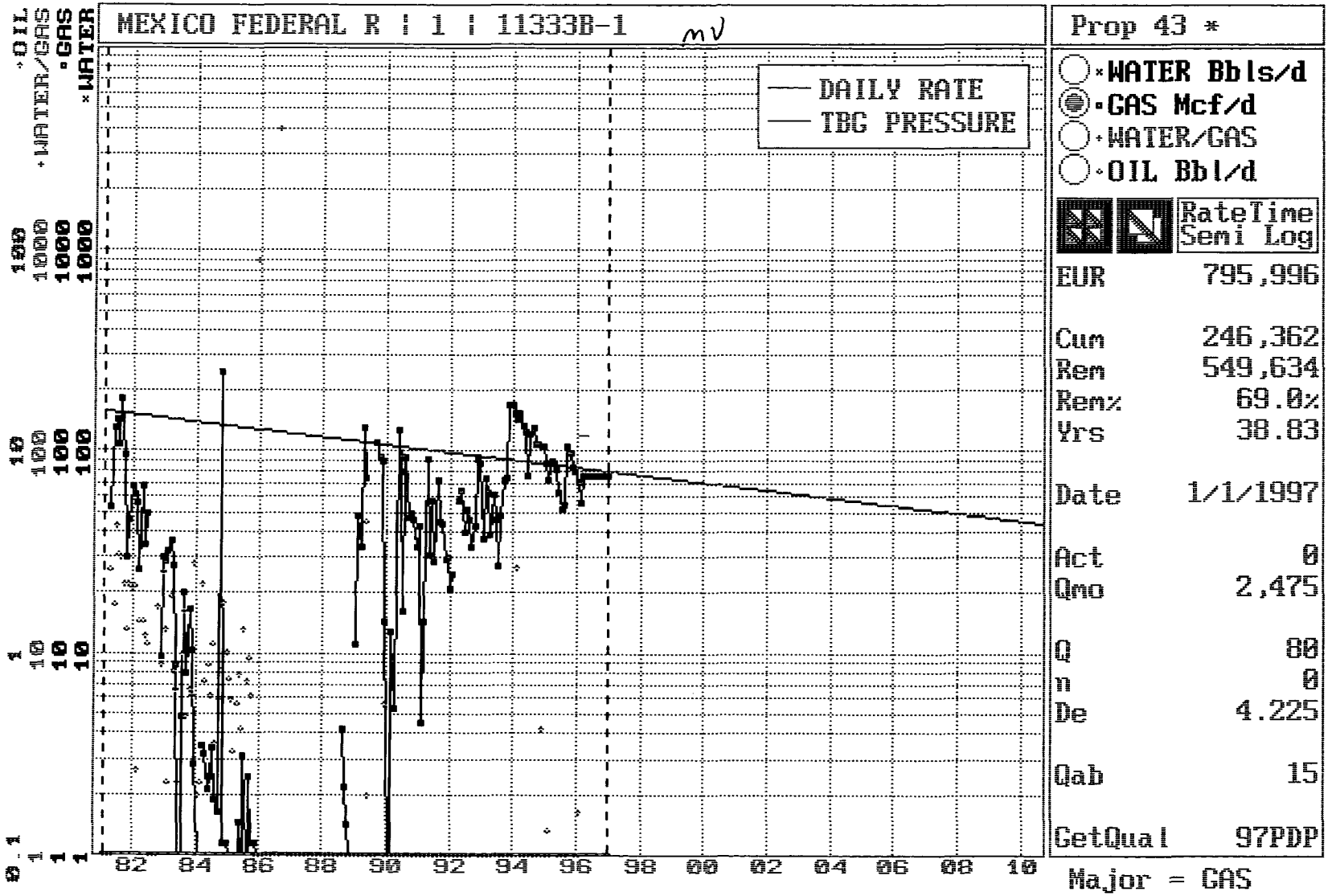
Name: Paul D Becker
Position: Engineer Technician IA
Company: Getty Oil Co.
Date: 5-15-78

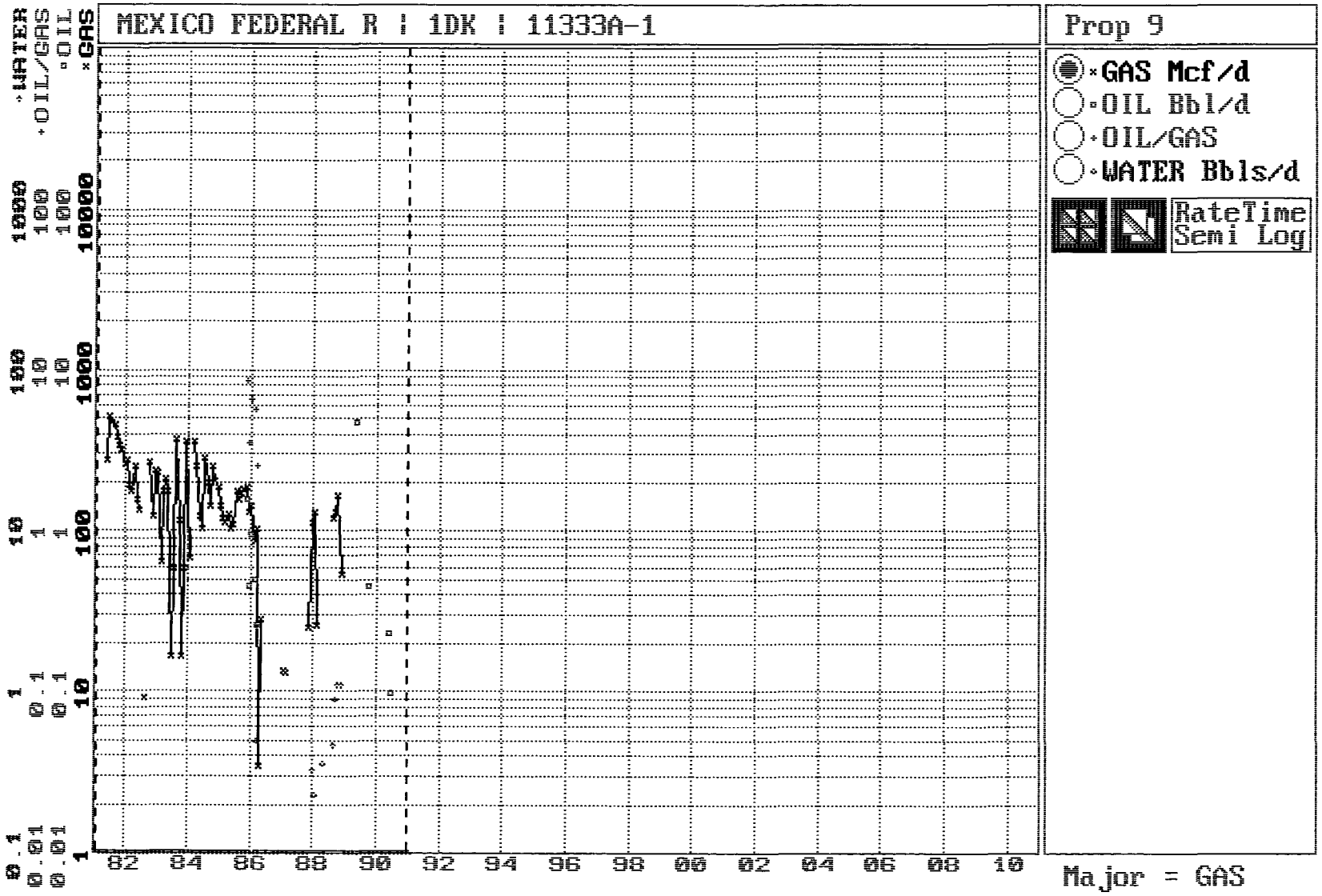
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer and/or Land Surveyor

Certificate No.


MEXICO FEDERAL R : 1 : 11333B-1
mv
DAILY RATE
TBG PRESSURE
·OIL
·WATER/GAS
·GAS
×WATER
82 84 86 88 90 92 94 96 98 00 02 04 06 08 10
Prop 43 *
×WATER Bbls/d
·GAS Mcf/d
·WATER/GAS
·OIL Bbl/d
RateTime
Semi Log
EUR 795,996
Cum 246,362
Rem 549,634
Rem% 69.0%
Yrs 38.83
Date 1/1/1997
Act 0
Qmo 2,475
Q 80
n 0
De 4.225
Qab 15
GetQual 97PDP
Major = GAS

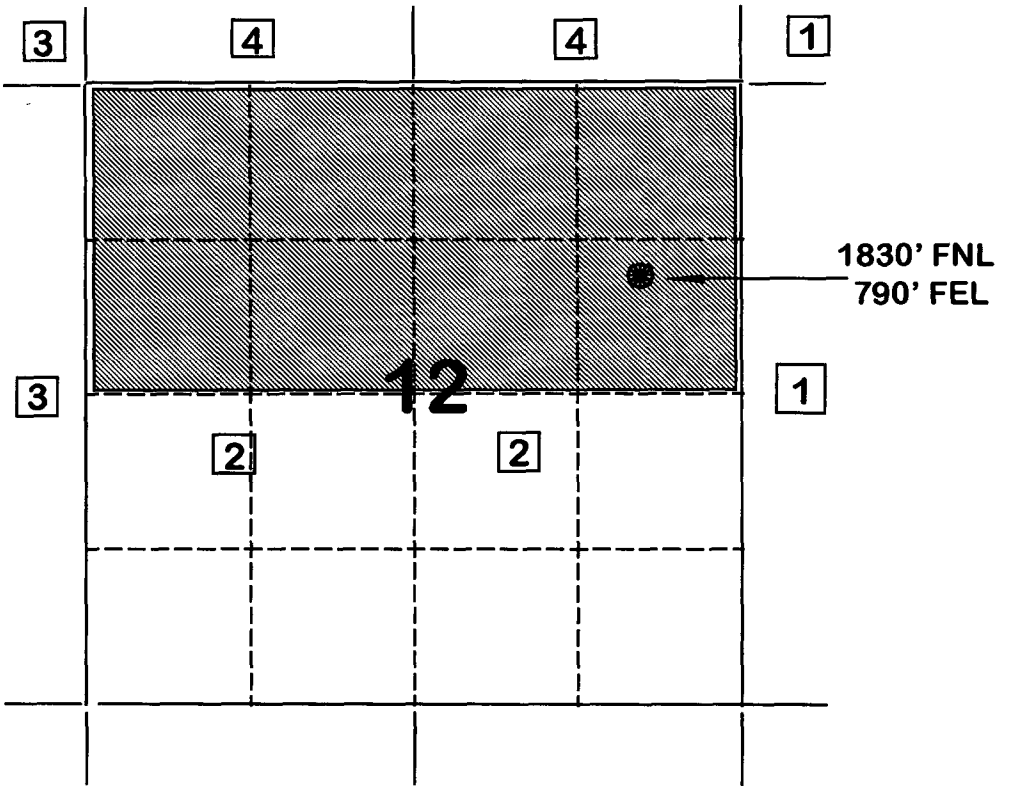

MEXICO FEDERAL R | 1DK | 11333A-1
Prop 9
GAS Mcf/d
OIL Bbl/d
OIL/GAS
WATER Bbls/d
RateTime
Semi Log
WATER
OIL/GAS
OIL
GAS
82
84
86
88
90
92
94
96
98
00
02
04
06
08
10
Major = GAS

BURLINGTON RESOURCES OIL AND GAS COMPANY

Mexico Federal R #1
OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 31 North, Range 13 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
2) Dugan Production Corp.
   P.O. Box 420
   Farmington, NM 87499
3) Snyder Oil Corp.
   777 Main, Suite 2500
   Ft. Worth, TX 76102
4) Hallwood Petroleum Inc.
   4582 S. Ulster Street Pkwy, Suite 1700
   Denver, CO 80237

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD
VERSION 1.0 3/13/94

GAS GRAVITY	**0.7**
COND. OR MISC. (C/M)	**C**
%N2	**0.2**
%CO2	**0.74**
%H2S	**0**
DIAMETER (IN)	**2.2**
DEPTH (FT)	**4466**
SURFACE TEMPERATURE (DEG F)	**60**
BOTTOMHOLE TEMPERATURE (DEG F)	**150**
FLOWRATE (MCFPD)	**0**
SURFACE PRESSURE (PSIA)	**582**
BOTTOMHOLE PRESSURE (PSIA)	652.9

MEXICO FEDERAL R #1 MESAVERDE - (CURRENT)

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD
VERSION 1.0 3/13/94

GAS GRAVITY	**0.7**
COND. OR MISC. (C/M)	**C**
%N2	**0.2**
%CO2	**0.74**
%H2S	**0**
DIAMETER (IN)	**2.2**
DEPTH (FT)	**4466**
SURFACE TEMPERATURE (DEG F)	**60**
BOTTOMHOLE TEMPERATURE (DEG F)	**150**
FLOWRATE (MCFPD)	**0**
SURFACE PRESSURE (PSIA)	**978**
BOTTOMHOLE PRESSURE (PSIA)	1106.3

MEXICO FEDERAL R #1 MESAVERDE - (ORIGINAL)

Organize Data ScreenGraph Economics Report Plot Utility Quit

Browsing: MEXICO FEDERAL R | 1MV | 11333B-1 Property No.: 10

Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/6/192

Item: 11/32/33 Name: OIL_RATE Type: Numeric Len: 8/197/203 Dec: 0

	OIL_RATE	GAS_RATE	WTR_RATE	WHT	M_FWHP- Psi	M_FBHP- Psi	M_SIWHP Psi	M_SIBHP Psi	C_FWHP-	
«	0		0		0.0		978.0	0.0		»
«	0		0		338.0		551.0	0.0		»
«	0		0		395.0		601.0	0.0		»
«	0		0		303.0		557.0	0.0		»
«	0		0		357.0		491.0	0.0		»
«	0		0		401.0		582.0	0.0		»

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table
F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD
VERSION 1.0 3/13/94

GAS GRAVITY	**0.69**
COND. OR MISC. (C/M)	**C**
%N2	**0.27**
%CO2	**1.26**
%H2S	**0**
DIAMETER (IN)	**2.4**
DEPTH (FT)	**6844**
SURFACE TEMPERATURE (DEG F)	**60**
BOTTOMHOLE TEMPERATURE (DEG F)	**200**
FLOWRATE (MCFPD)	**0**
SURFACE PRESSURE (PSIA)	**1212**
BOTTOMHOLE PRESSURE (PSIA)	1450.1

MEXICO FEDERAL R #1 DAKOTA - (ORIGINAL)

FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD
VERSION 1.0 3/13/94

GAS GRAVITY	**0.69**
COND. OR MISC. (C/M)	**C**
%N2	**0.27**
%CO2	**1.26**
%H2S	**0**
DIAMETER (IN)	**2.4**
DEPTH (FT)	**6844**
SURFACE TEMPERATURE (DEG F)	**60**
BOTTOMHOLE TEMPERATURE (DEG F)	**200**
FLOWRATE (MCFPD)	**0**
SURFACE PRESSURE (PSIA)	**885**
BOTTOMHOLE PRESSURE (PSIA)	1050.9

MEXICO FEDERAL R #1 DAKOTA - (CURRENT)

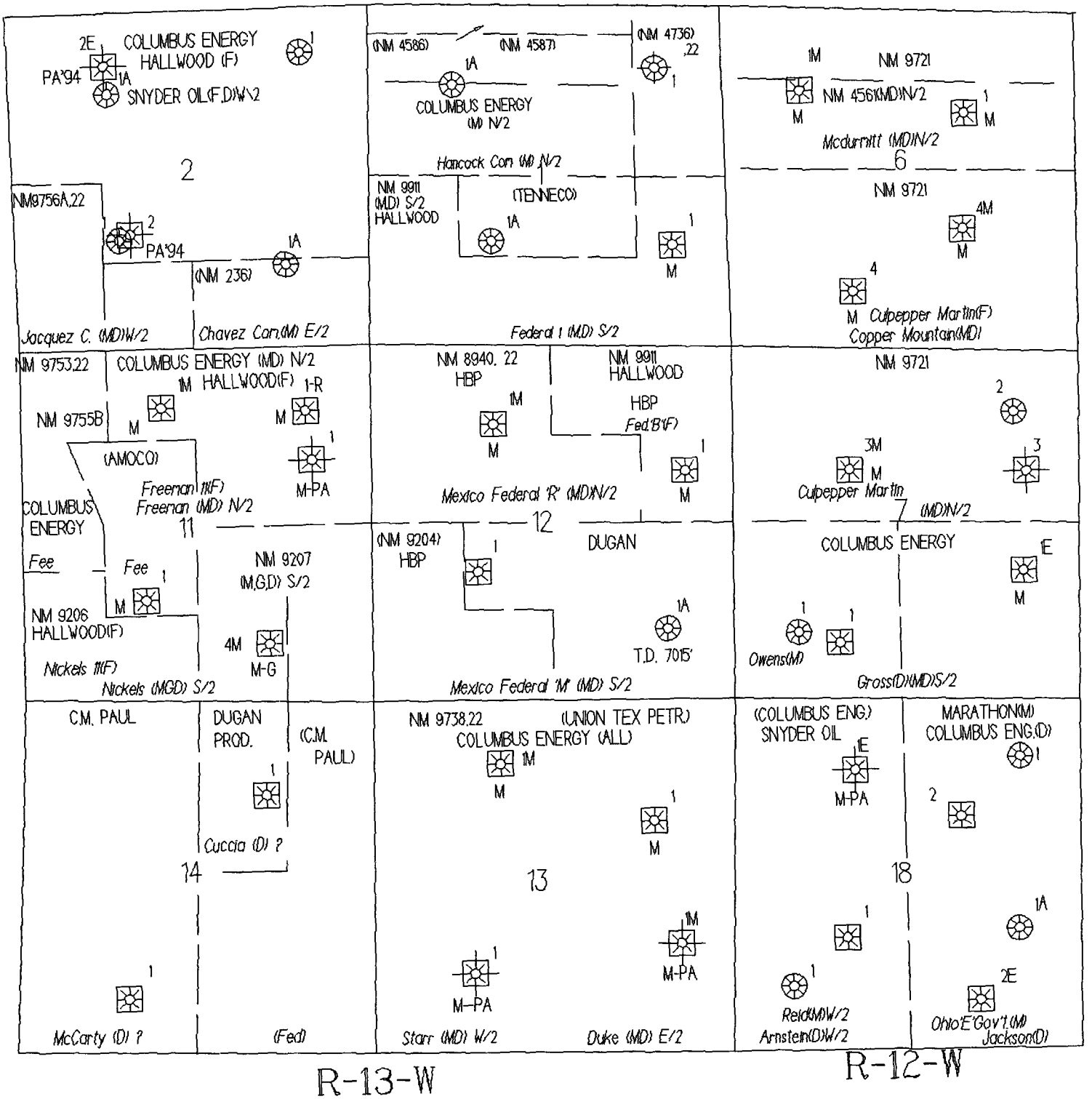
STATE: 30
PROD : 2
IDENT: 31N13W
DISTRICT: 4
LOCATION: 12K31N13W
RETRIEVAL CODE: 251,045,31N13W12K00DK
GAS GATH: ELNAT
API NO: 1089700

LEASE NAME: MEXICO FEDERAL M
COUNTY NAME: SAN JUAN
RESERVOIR NAME: DAKOTA
OPERATOR NAME: DUGAN PRODUCTION CORP
FIELD NAME: BASIN (DAKOTA) DK
WELL: 1
STATUS: ACT
COMP DATE: 196105

TOTAL DEPTH: 6875
UPPER PERF: 6580
LOWER PERF: 6800

DATE	CUM TO TEST	WHSIP	BHP	P/Z	BDWTR	BDCND	WHFLW	POTEN	M/C	POT	Z FAC
19610515	0	0	0	0	0	0	0	1574		2	.000
19710526	529985	1212	1439	1617	0	0	384	63	C	2	90.000
19720706	577982	1127	1336	1493	0	0	340	110	C	2	95.000
19750404	679177	937	1106	1217	0	0	310	98	C	2	9.000
19770525	750142	885	1043	1141	0	0	278	71	C	2	14.000

MEXICO FEDERAL R #1
SECTION 12, T31N, R13W
BLANCO MESAVERDE/BASIN DAKOTA



PRODUCTION ALLOCATION FORMULA METHOD

MEXICO FEDERAL R #1
(Mesaverde/Dakota) Commingle
Unit I, 12-T31N-R13W
San Juan County, New Mexico

Allocation Formula Method:

Current Production from Mesaverde formation = 96 MCFD

Current Production from Dakota formation = 20 MCFD

$$\frac{[\textit{(MV \& DK)}\ 116\ \text{MCFD} - \textit{(MV)}\ 96\ \text{MCFD}]}{\textit{(MV \& DK)}\ 116\ \text{MCFD}} = (\text{DK})\ \%$$

Dakota 17%

$$\frac{[\textit{(MV \& DK)}\ 116\ \text{MCFD} - \textit{(DK)}\ 20\ \text{MCFD}]}{\textit{(MV \& DK)}\ 116\ \text{MCFD}} = (\text{MV})\ \%$$

Mesaverde 83%