

Ernie Busch

From: Ernie Busch
To: Ben Stone
Subject: BURLINGTON (DHC) CULPEPPER MARTIN #13
Date: Monday, October 28, 1996 8:30AM
Priority: High

CULPEPPER MARTIN #13
N-29-32N-12W
RECOMMEND: APPROVAL

DISTRICT I
2040 South Pacheco, NM 87505
DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719
DISTRICT III
1000 Rio Brazos Rd. Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, New Mexico 87505
OPERATOR'S MONTHLY REPORT

Form C-115
Revised May, 1995
Instructions on Reverse Side
Amended Report

Operator: BANION ENERGY INCORPORATED
Address : 3934 FM 1960 WEST, SUITE 240 HOUSTON, TX 77068

OGRID: 001587

Month/Year 10/1995
Page 2 of 18

POOL NO. AND NAME Property No. and Name Well No. & U-L-S-T-R API NO.	INJECTION		PRODUCTION				DISPOSITION OF OIL, GAS, AND WATER								
	C O D E	VOL.	C O D E	BBLs of Oil/Cond Prod.	BBLs of Water Prod.	MCF GAS Prod.	Days Prod Used	C O D E	Point of Disposition	Gas BTU or OIL API Gravity	Oil on Hand Beg. Month	Volume BBL/MCF	TRANS- POR- TER OGRID	C O D E	Oil on Hand end of Month
13379 COUNSELORS GALLUP-DAKOTA 001729 MARCUS A 004 B 18MMNE/23N/06M 30-039-24455 012 2 05MMNE/23N/6M 30-039-24193	F F F			49 46	0 0	803 1017	31 31	0 G G G	0503610 0503630	40.8 1316	332	215 2216 156 802	009018 001587	U O	275
001746 STATE 16 001 D 016-23N-06M 30-039-24528 002 F 016-23N-06M 30-039-24547 003 L 016-23N-06M 30-039-24573	F F F F			6 50 27	0 0 0	148 383 283	20 31 29	0 G G G	0504510 0504530	36.6 1356	316	287 1 568 40 206	009018 001587	S U O	111
17610 DEVILS FORK GALLUP (ASSOCIATED) 001719 FEDERAL 29 002 P 29SESE/24N/6M 30-039-24623	S			0	0	0	0	0	0504810		25				25
001723 GRACE FEDERAL 24-2 F 24SENN/24N/7M 30-039-24360	P			26	0	2925	30								

I hereby certify that the information contained in this report is true and complete to the best of my knowledge.

Signature *Janie Myrick*

JANIE MYRICK

Printed Name & Title

REGULATORY ANALYST

Date

11-28-1995

Phone Number

(713) 537-9000

BURLINGTON RESOURCES

SAN JUAN DIVISION

September 24, 1996

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

Re: Culpepper Martin #13
990'FSL, 1760'FWL Section 29, T-32-N, R-12-W, San Juan County, NM
API #30-045-11222

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 - Burlington is the surrounding operator;
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 will be based off actual flow rates from the Mesa Verde and Dakota formations.

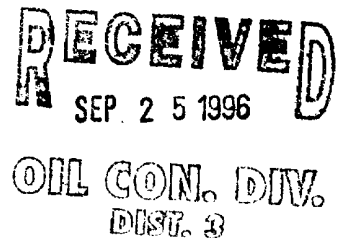
Please let me know if you require additional data.

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 87505-6429

Form C-107-A
New 3-12-96
APPROVAL PROCESS :
___X___ Administrative
___Hearing
EXISTING WELLBORE
___X___ YES ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company PO Box 4289, Farmington, NM 87499
Operator Address
Culpepper Martin 13 N-29-32N-12W San Juan
Lease Well No. Unit Ltr. - Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 6935 API NO. 30-045-11222 Federal , State , (and/or) Fee X

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)	4593-4887'		6830-6919'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	(Current) a. 685 psi (see attachment)	a.	a. 976 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1211 psi (see attachment)	b.	b. 2017 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1182		BTU 1162
7. Producing or Shut-In?	producing		producing
Production Marginal? (yes or no)	No		Yes
* If Shut-In and oil/gas/water rates of last production	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
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 of recent test (within 60 days)	Date: 8-96 Rates: 58 MCF/D .19 BOPD	Date: Rates:	Date: 7-96 (see attached plot) Rates: 19 MCF/D 0 BOPD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplied when completed		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? ☒ 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). _____
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 9-24-96

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

Operator

MEXICO OIL CONSERVATION COM S
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

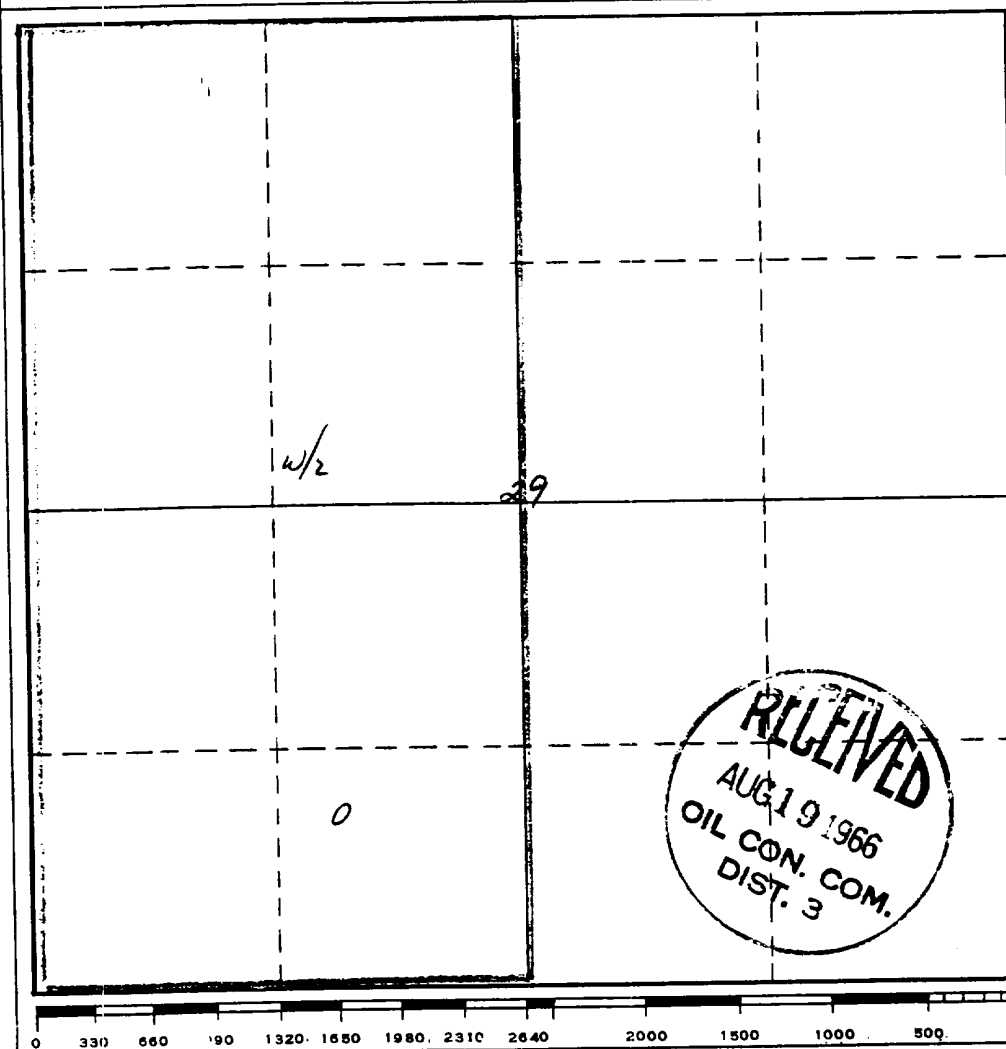
Operator Aztec Oil and Gas Company			Lease Culpepper Martin		Well No. 13
Unit Letter N	Section 29	Township 32N	Range 12W	County San Juan	
Actual Footage Location of Well: 990 feet from the South line and 1760 feet from the West line					
Ground Level Elev. 990	Producing Formation Dakota		Pool Basin		Dedicated Acreage: 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 _____

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.

(Original Signed)

Howard J. Speer

Name

Howard J. Speer

Position

District Geologist

Company

Aztec Oil and Gas

Date

August 18, 1966

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.

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Date August 25, 1939

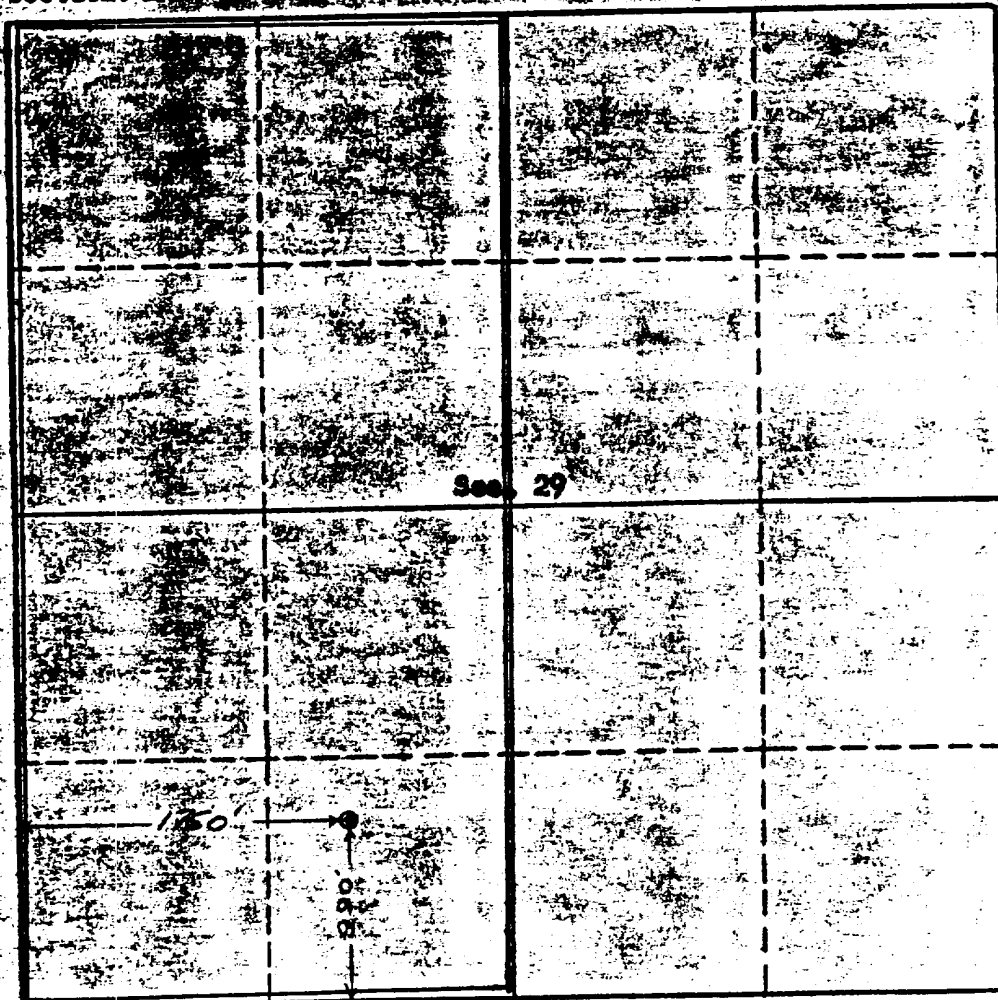
Section A.

Operator AZTEC OIL & GAS COMPANY Lease CULPEPPER-MARTIN
Well No. 13 Unit Letter L Section 29 Township 32N Range 12W NMPM
Located 1760 Feet From West Line, 990 Feet From South Line
County San Juan G. L. Elevation 5895 Dedicated Acreage 320 Acres
Name of Producing Formation Mesaverde Pool Blanco-Mesaverde

1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
Yes XXX No
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No . If answer is "yes,"
Type of Consolidation
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

Section B.



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

AZTEC OIL & GAS COMPANY
(Operator)

ORIGINAL SIGNED BY JOE C. SALMON
(Representative)

BOX 786, FARMINGTON, N.M.
Address

This is to certify that the well location shown on the plat is based on a plat from field notes of actual survey made by me or under my supervision and that the same is true to the best of my knowledge and belief.

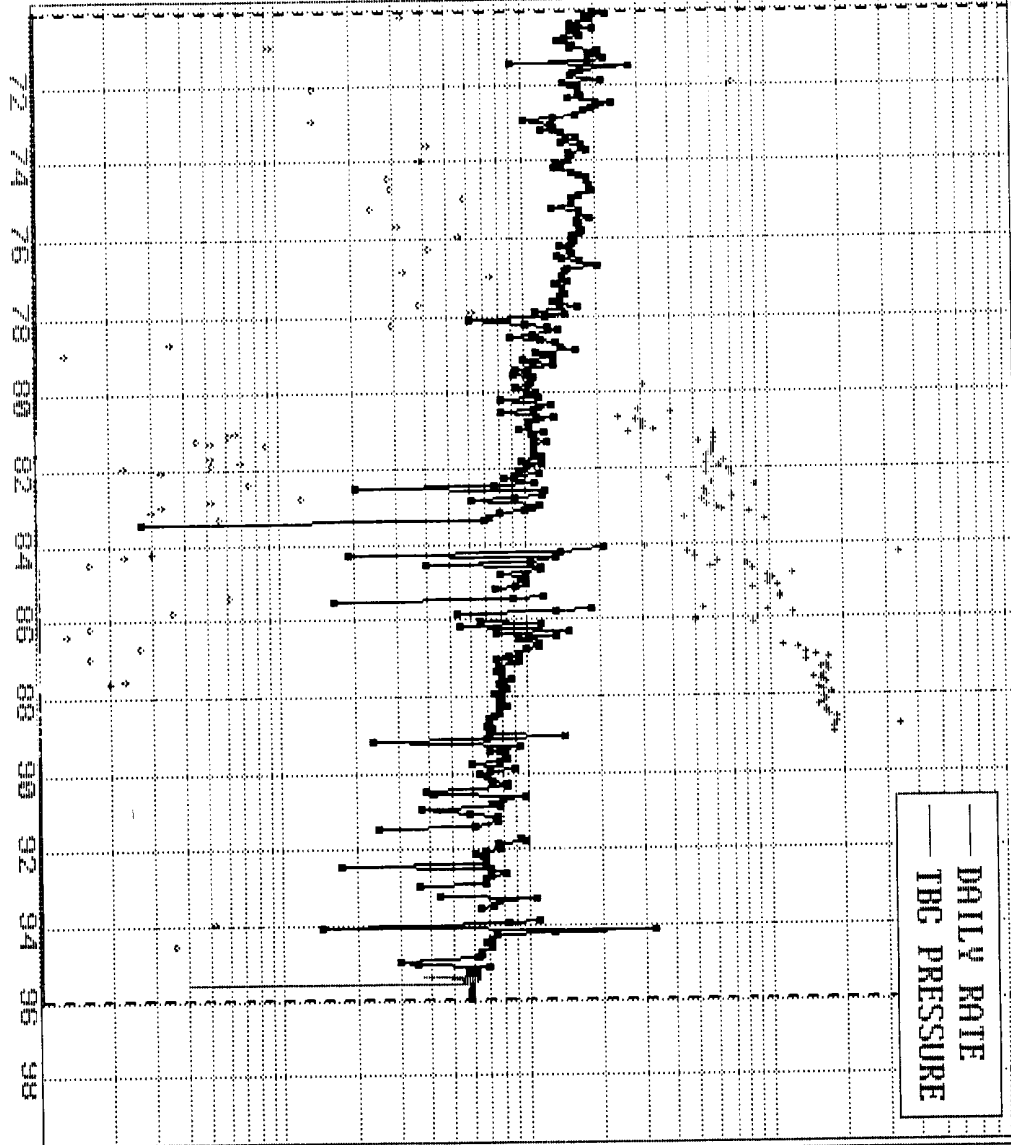
Date Surveyed August 22, 1939

Ernest V. Echolaw
Ernest V. Echolaw
Registered Land Surveyor.

Certificate No. 1545

0.1 1 10 100 1000
 0.001 0.01 0.1 1 1000
 1 10 100 1000
 *OIL
 *WATER/GAS
 *GAS
 *WATER

CULPEPPER MORRIS (MU) : 13 : 10684-1



— DAILY RATE
 — TBC PRESSURE

Prop 3 *

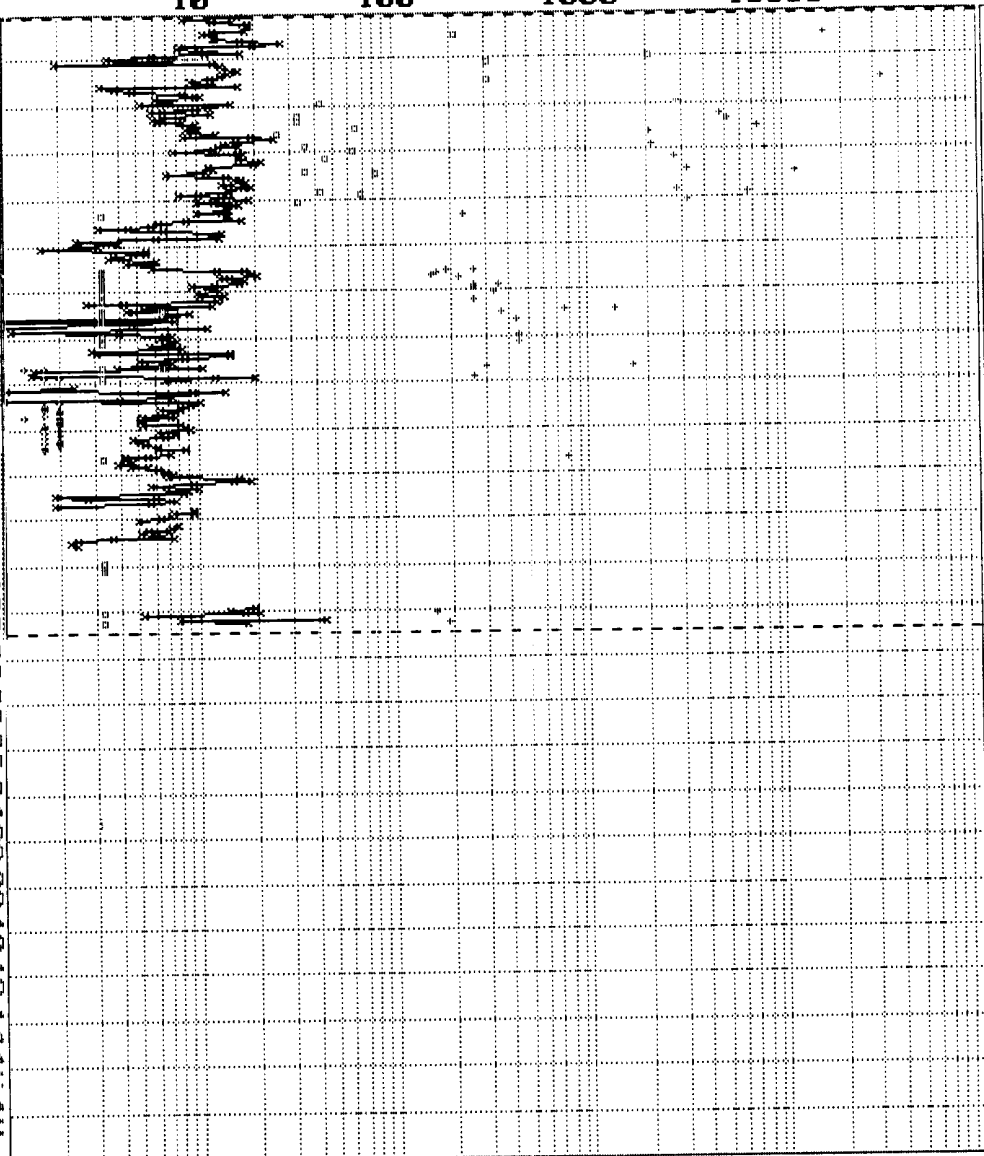
- ☐ *WATER Bbls/d
- ☒ *GAS Mcf/d
- ☐ *WATER/GAS
- ☐ *OIL Bbl/d
- ☒ RateTime
- ☒ Semi Log

Major = GAS

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

CULPEPPER MARTIN (DK) : 13 : 10685-1

727476 788882 8486 889092 9496 980002 040608 101214 1618



Prop 27

- 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	0.69
COND. OR MISC. (C/M)	C
%N2	0.33
%CO2	1.61
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	6919
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1670
BOTTOMHOLE PRESSURE (PSIA)	2016.8

CULPEPPER MARTIN #13 DAKOTA - (ORIGINAL)

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.69</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.33</u>
%CO2	<u>1.61</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>6919</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>200</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>822</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>976.2</u>

CULPEPPER MARTIN #13 DAKOTA - (CURRENT)

----- DWIGHTS TEST DATA REPORT ----- ROW 1 OF 13
 COMMAND ==> SCROLL ==> PAGE

State: 30 Lease Name: CULPEPPER MARTIN
 Prod: 2 County Name: SAN JUAN
 Ident: 32N12W29N00DK Reservoir Name: DAKOTA
 District: 4 Operator Name: MERIDIAN OIL INC
 Location: 29N 32N 12W Field Name: BASIN (DAKOTA)
 Retrieval code: 251,045,32N12W29N00DK Well: 000013 Total Depth: 7025
 Gas Gath: WFS Status: INA Upper Perf: 6830
 API No: 1122200 Comp Date: 196607 Lower Perf: 6919

Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z	FA
19660729	0	1670	2009	2307	0	0	0	1468	C	1	71.00	
19660810	40,055	578	680	721	0	0	466	22	C	2	43.00	
19700718	43,093	591	696	740	0	0	466	22	C	2	41.00	
19720718	52,509	578	680	721	0	0	466	22	C	2	43.00	
19730617	55,905	751	887	957	0	0	384	11	C	2	27.00	
19750225	61,365	399	467	486	0	0	302	12	C	2	60.00	
19751225	65,806	399	467	486	0	0	302	12	C	2	60.00	
19770825	75,340	759	897	969	0	0	425	19	C	2	26.00	
F1=HELP		F2=SPLIT		F3=END		F4=RETURN		F5=RFIND		F6=RCHANGE		
F7=UP		F8=DOWN		F9=SWAP		F10=LEFT		F11=RIGHT		F12=RETRIEVE		

B MY JOB LU #4

----- DWIGHTS TEST DATA REPORT ----- ROW 7 OF 13
 COMMAND ==> SCROLL ==> PAGE

State: 30 Lease Name: CULPEPPER MARTIN
 Prod: 2 County Name: SAN JUAN
 Ident: 32N12W29N00DK Reservoir Name: DAKOTA
 District: 4 Operator Name: MERIDIAN OIL INC
 Location: 29N 32N 12W Field Name: BASIN (DAKOTA)
 Retrieval code: 251,045,32N12W29N00DK Well: 000013 Total Depth: 7025
 Gas Gath: WFS Status: INA Upper Perf: 6830
 API No: 1122200 Comp Date: 196607 Lower Perf: 6919

Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z	FA
19751225	65,806	399	467	486	0	0	302	12	C	2	60.00	
19770825	75,340	759	897	969	0	0	425	19	C	2	26.00	
19790501	82,488	776	917	991	0	0	423	1	C	2	25.00	
19810623	88,919	708	836	898	0	0	416	22	C	2	31.00	
19830608	95,470	766	905	977	0	0	443	7	C	2	26.00	
19850403	99,854	841	996	1084	0	0	355	5	C	2	19.00	
19900608	112,323	822	973	1056	0	0	319	32	C	2	21.00	
***** BOTTOM OF DATA *****												
F1=HELP		F2=SPLIT		F3=END		F4=RETURN		F5=RFIND		F6=RCHANGE		
F7=UP		F8=DOWN		F9=SWAP		F10=LEFT		F11=RIGHT		F12=RETRIEVE		

B MY JOB LU #4

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----- DWIGHTS TEST DATA REPORT ----- ROW 9 OF 15
COMMAND ==>                                SCROLL ==> PAGE
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State: 30                      Lease Name: CULPEPPER MARTIN
Prod: 2                        County Name: SAN JUAN
Ident: 32N12W29N00MV          Reservoir Name: MESAVERDE
District: 4                    Operator Name: MERIDIAN OIL INC
Location: 29N 32N 12W         Field Name: BLANCO (MESAVERDE)
Retrieval code: 251,045,32N12W29N00MV  Well: 000013      Total Depth: 7025
Gas Gath: WFS                  Status: ACT                Upper Perf: 4600
API No: 1122200                Comp Date: 195909      Lower Perf: 4887

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Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z	FA
19800607	1,409,695	498	557	594	0	0	402	124	C	2	37.00	
19820407	1,482,922	466	521	554	0	0	387	119	C	2	41.00	
19840822	1,542,482	493	552	588	0	0	423	132	C	2	38.00	
19860219	1,586,014	875	986	1104	0	0	392	186	C	2	93.00	
19891026	1,699,022	460	515	547	0	0	324	81	C	2	42.00	
19910910	1,741,366	485	543	578	0	0	388	75	C	2	39.00	
19931229	1,790,655	605	679	734	0	0	392	106	C	2	0.92	
***** BOTTOM OF DATA *****												
F1=HELP	F2=SPLIT	F3=END	F4=RETURN			F5=RFIND			F6=RCHANGE			
F7=UP	F8=DOWN	F9=SWAP	F10=LEFT			F11=RIGHT			F12=RETRIEVE			
B MY JOB			LU #4									

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.69</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.21</u>
%CO2	<u>0.75</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>4887</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1059</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1211.1</u>

CULPEPPER MARTIN #13 MESAVERDE - (ORIGINAL)

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.69</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.21</u>
%CO2	<u>0.75</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>4887</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>605</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>685.1</u>

CULPEPPER MARTIN #13 MESAVERDE - (CURRENT)

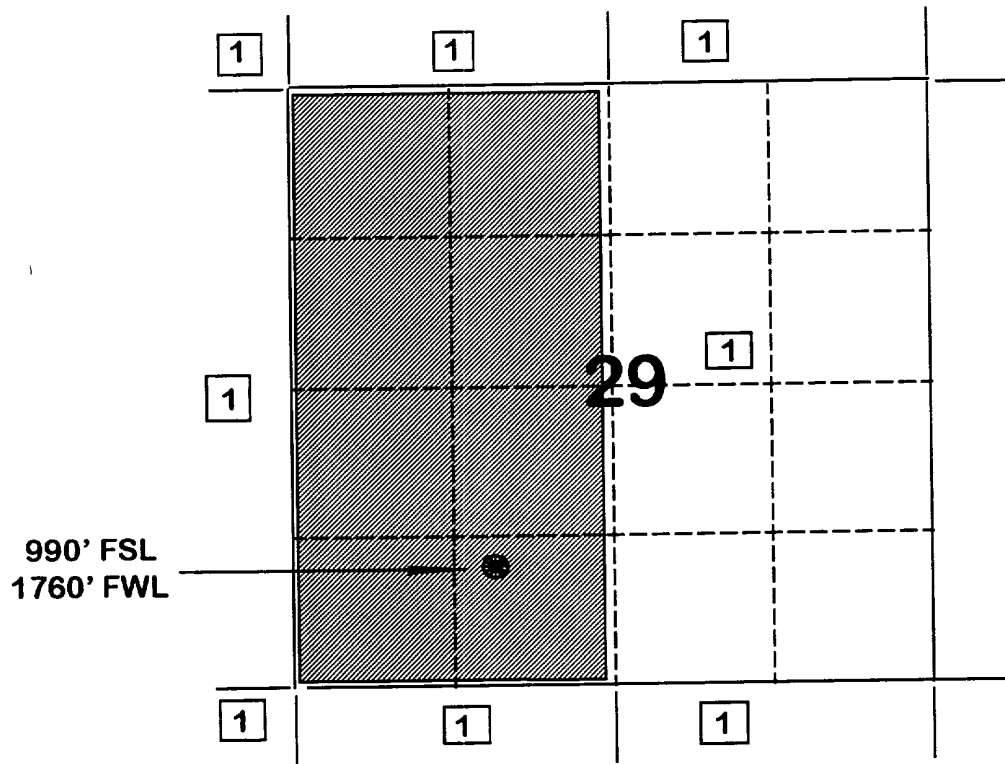
BURLINGTON RESOURCES OIL AND GAS COMPANY

CULPEPPER MARTIN #13

OFFSET OPERATOR \ OWNER PLAT

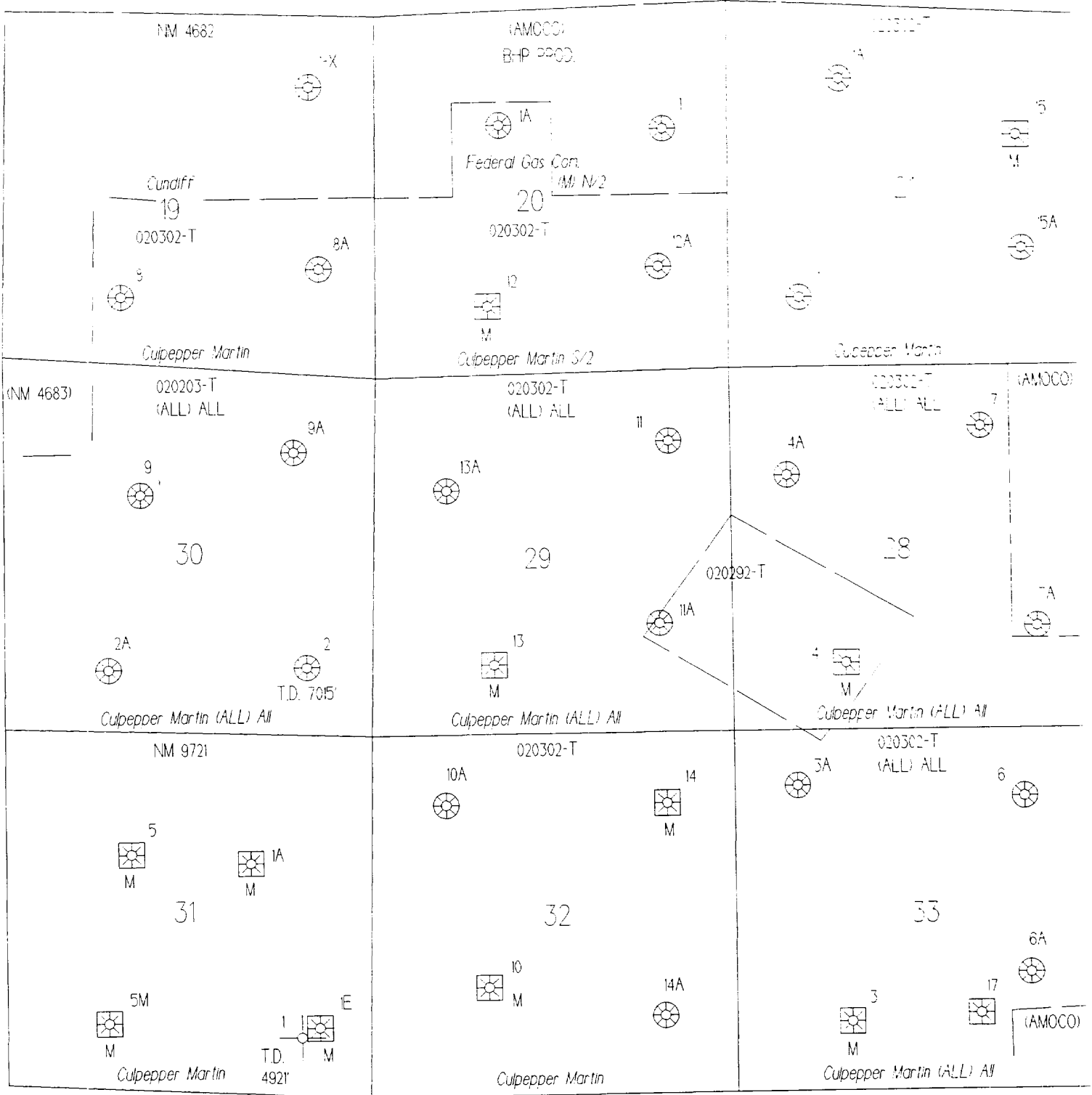
Mesaverde/Dakota Formations Commingle Well

Township 32 North, Range 12 West



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

CULPEPPER MARTIN #13 BLANCO MESAVERDE/BASIN DAKOTA SECTION 29 T32N R12W



PRODUCTION ALLOCATION FORMULA METHOD

Culpepper Martin #13
(Mesaverde/Dakota) Commingle
Unit N, SE/4, 29-T32N-R12W
San Juan County, New Mexico

Allocation Formula Method:

Current Production from Mesaverde formation = 60 MCFD

Current Production from Dakota formation = 19 MCFD

$$\frac{[(MV \& DK) 79 \text{ MCFD} - (MV) 60 \text{ MCFD}]}{(MV \& DK) 79 \text{ MCFD}} = (DK) \% \text{ Dakota 24\%}$$

$$\frac{[(MV \& DK) 79 \text{ MCFD} - (DK) 19 \text{ MCFD}]}{(MV \& DK) 79 \text{ MCFD}} = (MV) \% \text{ Mesaverde 76\%}$$