

Ernie Busch

From: Ernie Busch
To: Ben Stone
Subject: BURLINGTON (DHC) CULPEPPER MARTIN SRC #10
Date: Monday, October 28, 1996 8:36AM
Priority: High

CULPEPPER MARTIN SRC #10
K-32-32N-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
Santa Fe, New Mexico 87505
OPERATOR'S MONTHLY REPORT

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

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

OGRID: 001587

Month/Year 10/1995
Page 4 of 6

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.	PRESS.	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
22619 ESCRITO GALLUP 17051 RINCON 1 C 30NENM/24N/6W 30-039-24370	F				49	0	1194	30	0 G G	2807414 2807425	36.3 1376	89	93 627 323 244	009018 001587	U 0	45
11 I 31NESE/24N/6W 30-039-24354	F				87	0	1611	31	0 G G	2807416 2807427	42.8 1392	110	160 1115 82 414	009018 001587	U 0	37
2 G 30NME/24N/6W 30-039-24548	F				0	0	373	30	0 G G	2807412 2807423	1229	32	192 94 87	001587	U 0	32
3 A 30NENE/24N/6W 30-039-24660	F				0	0	2296	30	0 G G	2807413 2807424	1224	48	1155 530 611	001587	U 0	48
5Y A 5NENE/23N/6W 30-039-24534	F				179	0	985	31	0 G G	0758610 0758630	1302	10	692 47 246	001587	U 0	189

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

(713) 537-9000
Phone Number

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 SRC #10
1650'FSL, 1650'FWL Section 32, T-32-N, R-12-W, San Juan County, NM
API #30-045-11800

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 will be based off actual flow rates from the Mesa Verde and Dakota formations.

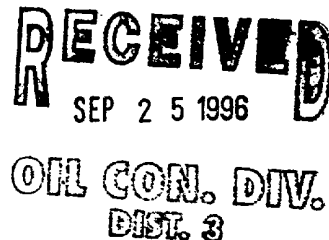
Please let me know if you require additional data.

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 :

☒ Administrative
☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil & Gas Company PO Box 4289, Farmington, NM 87499
Operator Address
Culpepper Martin SRC 10 K-32-32N-12W San Juan

Lease Well No. Unit Ltr. - Sec - Twp - Rge County
Spacing Unit Lease Types: (check 1 or more)
OGRID NO. 14538 Property Code 18505 API NO. 30-045-11800 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)	4606-4878'		6800-6898'
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. 689 psi (see attached) (Original) b. 1172 psi (see attached)	a. b.	a. 1002 psi (see attached) b. 2080 psi (see attached)
6. Oil Gravity (^o API) or Gas BTU Content	BTU 1191		BTU 1177
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 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: 1-92 Rates: 8 MCFD, 0 BOPD
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 8-96 Rates: 14 MCF/D, 0.18 BOPD	Date: Rates:	Date: 8-96 Rates: 9 MCF/D, 0 BOPD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplied upon completion		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, 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

N MEXICO OIL CONSERVATION COMMISSION
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.

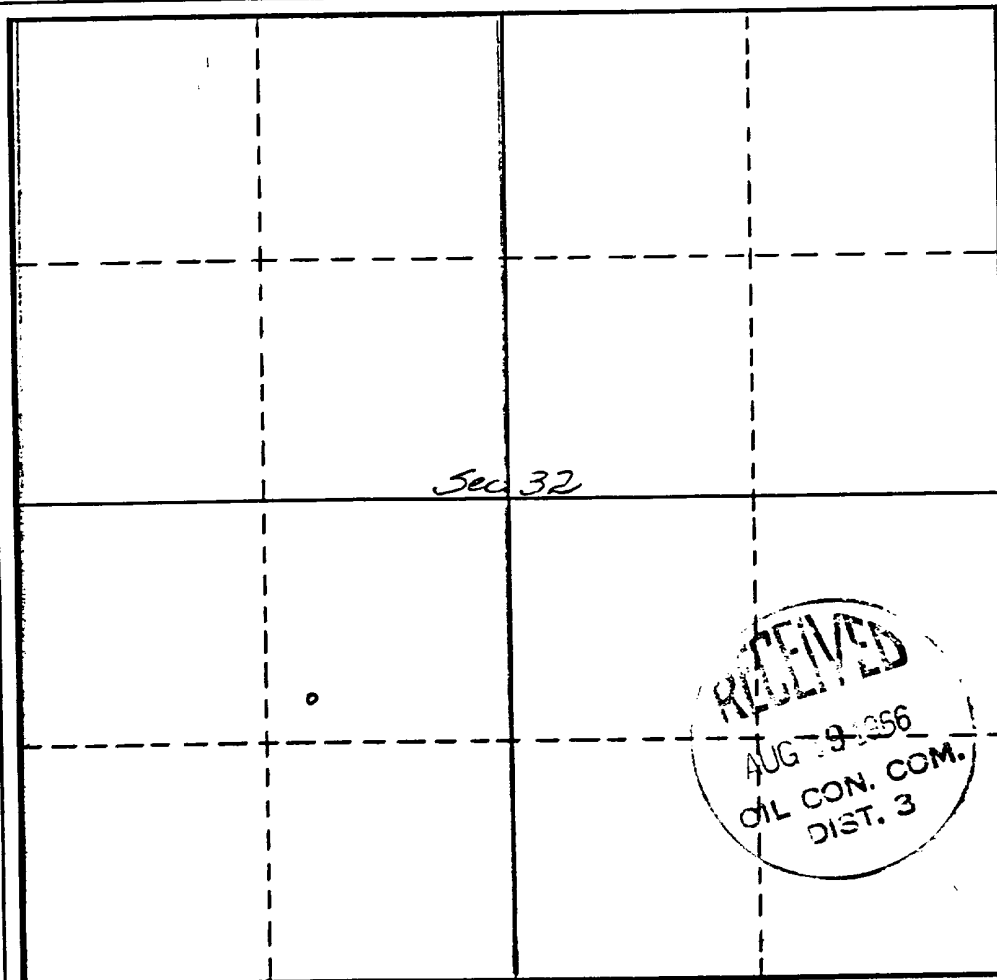
Operator Artec Oil and Gas			Lease Culpepper Martin		Well No. 10
Unit Letter K	Section 32	Township 32N	Range 12W	County San Juan	
Actual Footage Location of Well: 1650 feet from the South line and 1650 feet from the West line					
Ground Level Elev: 5893	Producing Formation Dakota	Pool Basin		Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 By
Carl E. Jamison

Name _____

Position **Carl E. Jamison**

Company **District Engineer**

Date **Artec Oil and Gas**

August 26, 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

Section A.

Date June 12, 1959

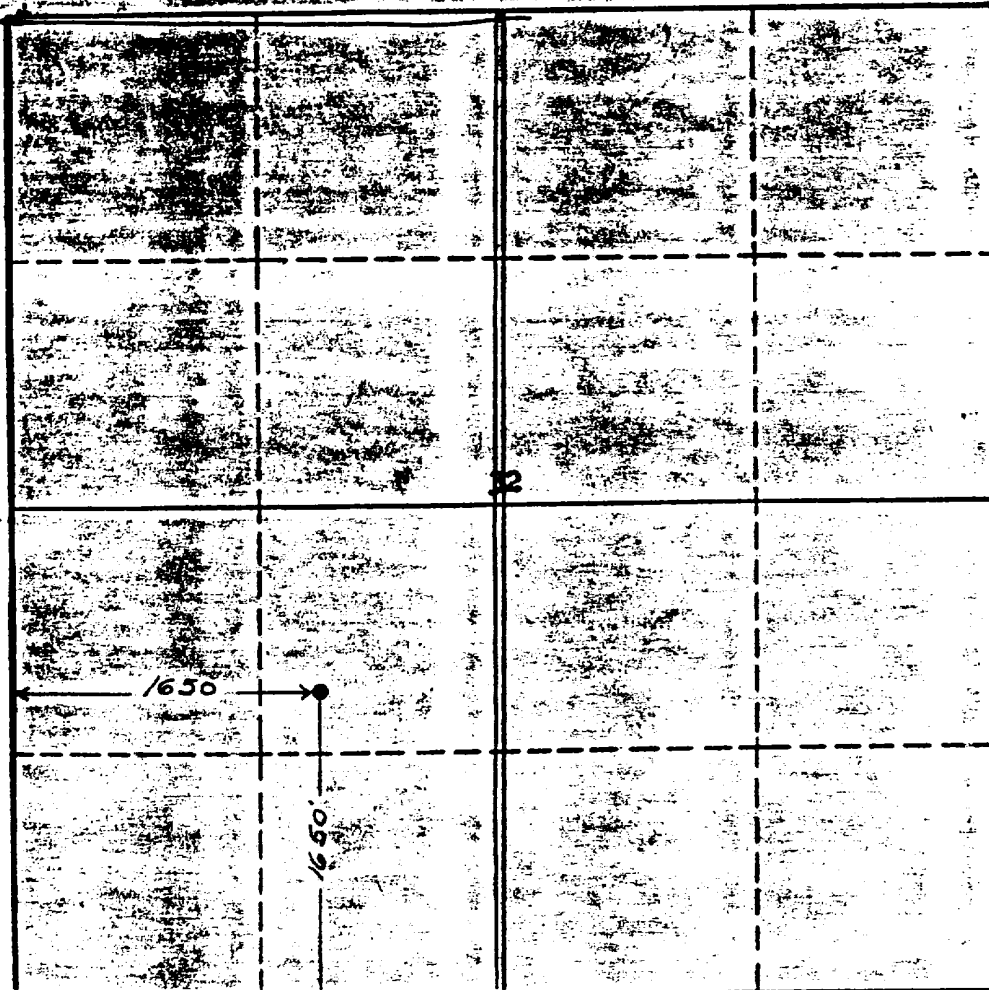
Operator Aztec Oil And Gas Company Lease Culpepper-Martin SR
Well No. 10 Unit Letter Section 32 Township 32 North Range 12 West NMPN
Located 1650' Feet From South Line, 1650' Feet From West Line
County San Juan G. L. Elevation 5893 Dedicated Acreage 320 Acres
Name of Producing Formation Mesaverde Pool Blanco Mesaverde

1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
Yes X 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)

(Representative)

P O Box 786
Farmington, New Mexico

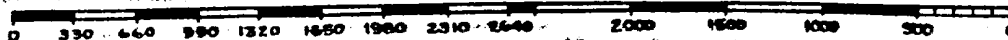
Address

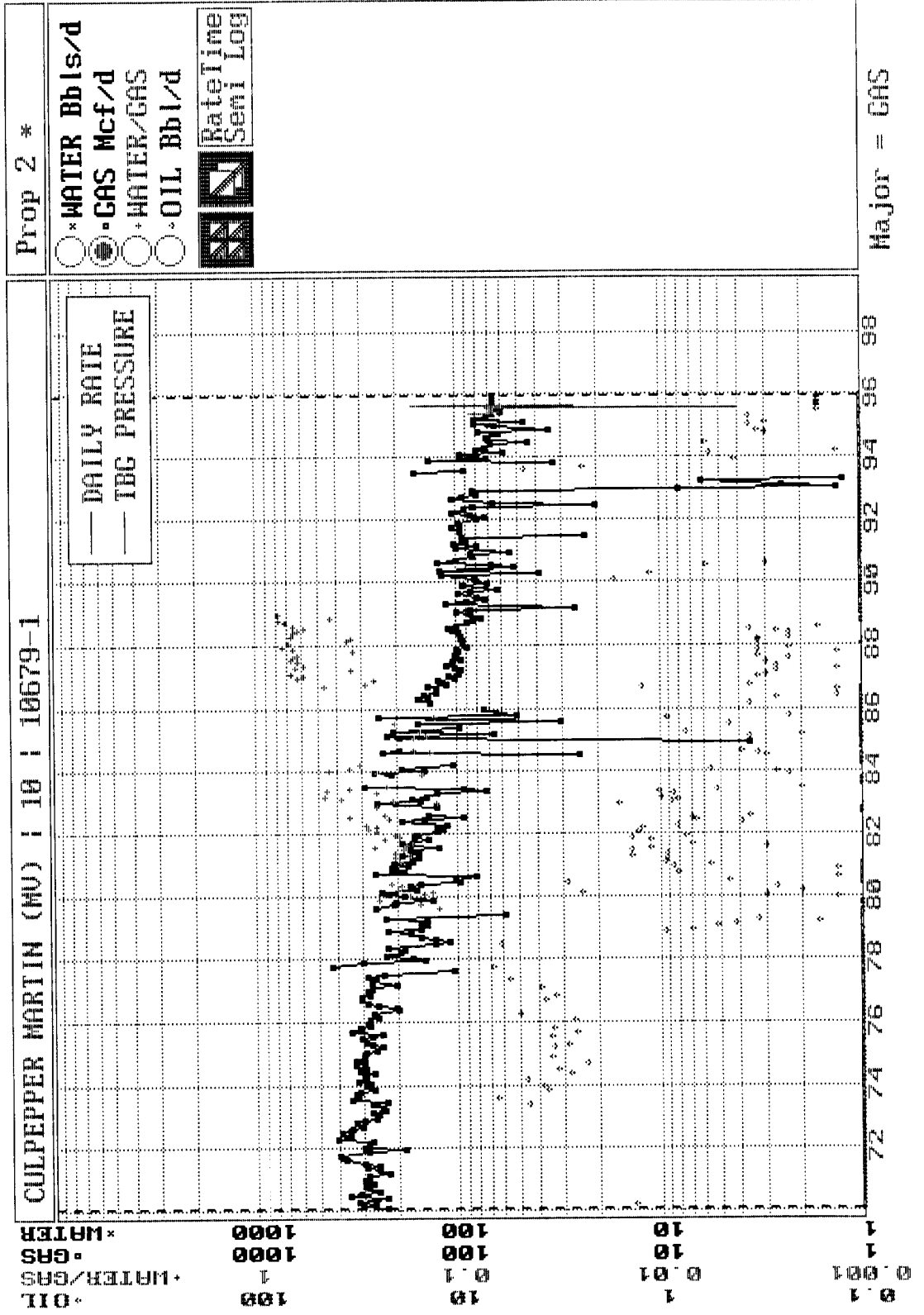
This is to certify that the well location on the plat in Section B is plotted from field notes of aerial survey made by me or under my supervision and that the same is true to the best of my knowledge and belief.

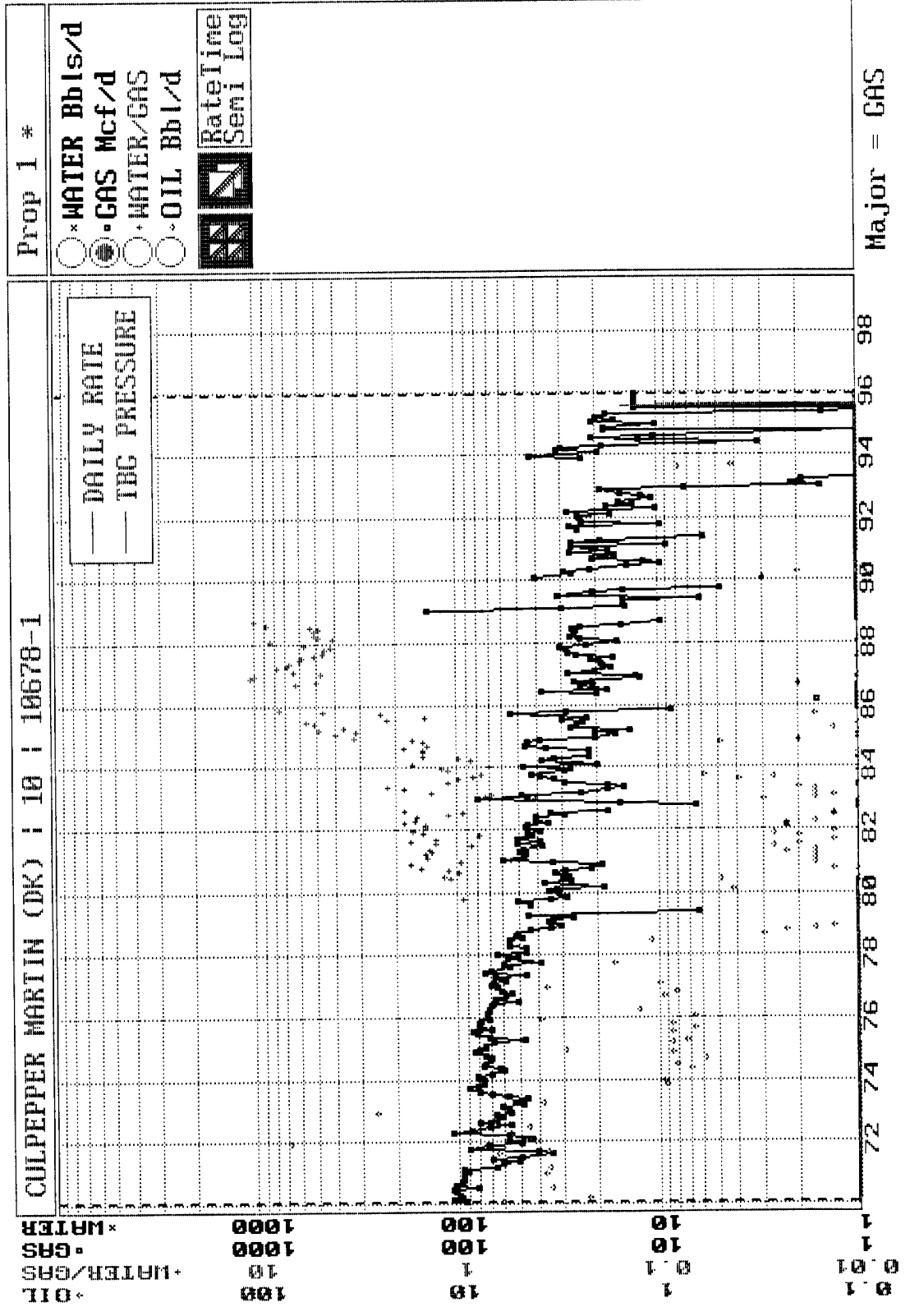
Date Surveyed June 10, 1959

Ernest V. Echohawk
Ernest V. Echohawk
Registered Land Surveyor.

Certificate No. 1545







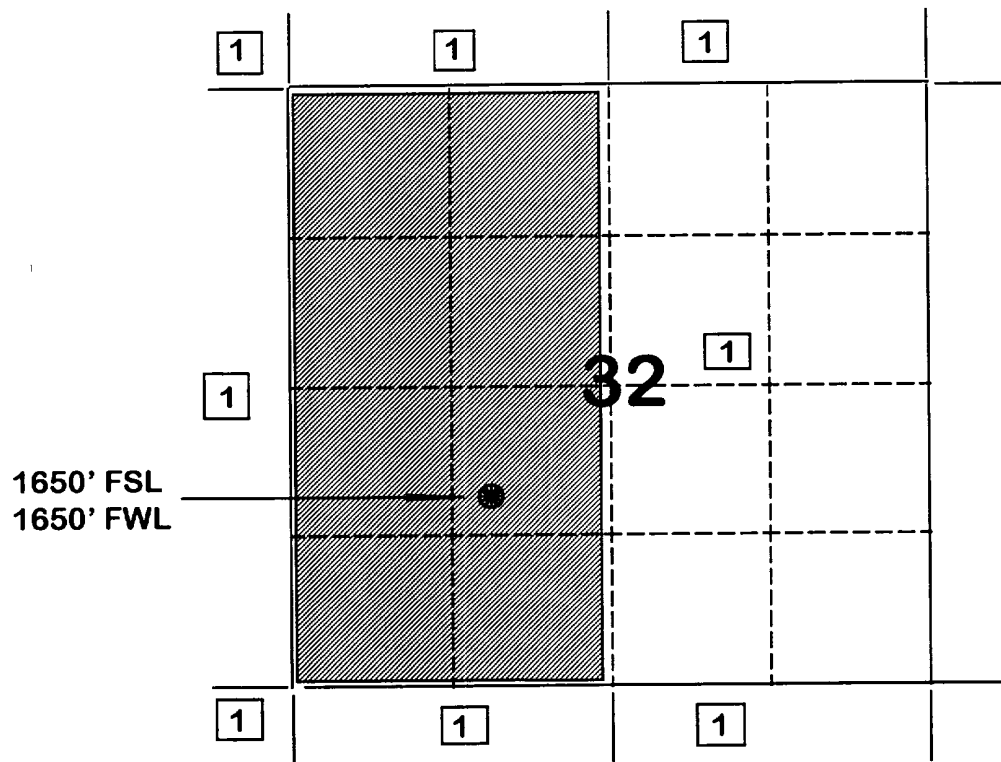
BURLINGTON RESOURCES OIL AND GAS COMPANY

CULPEPPER MARTIN SRC #10

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.

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.7</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.25</u>
%CO2	<u>1.18</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>4878</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1023</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1171.5</u>

CULPEPPER MARTIN SRC #10 MESAVERDE - (ORIGINAL)

**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	0.25
%CO2	1.18
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	4878
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	607
BOTTOMHOLE PRESSURE (PSIA)	688.6

CULPEPPER MARTIN SRC #10 MESAVERDE - (CURRENT)

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----- DWIGHTS TEST DATA REPORT ----- ROW 1 OF 15
COMMAND ==>                                SCROLL ==> PAGE
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State: 30	Lease Name: CULPEPPER MARTIN	
Prod: 2	County Name: SAN JUAN	
Ident: 32N12W32K00MV	Reservoir Name: MESAVERDE	
District: 4	Operator Name: MERIDIAN OIL INC	
Location: 32K 32N 12W	Field Name: BLANCO (MESAVERDE)	
Retrieval code: 251,045,32N12W32K00MV	Well: 000010	Total Depth: 4901
Gas Gath: SUG	Status: ACT	Upper Perf: 4843
API No: 1180000	Comp Date: 195907	Lower Perf: 4878

[illegible]

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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: 32N12W32K00MV	Reservoir Name: MESAVERDE	
District: 4	Operator Name: MERIDIAN OIL INC	
Location: 32K 32N 12W	Field Name: BLANCO (MESAVERDE)	
Retrieval code: 251,045,32N12W32K00MV	Well: 000010	Total Depth: 4901
Gas Gath: SUG	Status: ACT	Upper Perf: 4843
API No: 1180000	Comp Date: 195907	Lower Perf: 4878

Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z	FA
19800607	2,357,336	473	539	580	0	0	409	147	C	2	30.00	
19820407	2,464,834	441	502	537	0	0	403	59	C	2	34.00	
19840822	2,563,137	495	564	608	0	0	421	268	C	2	27.00	
19861029	2,647,873	497	566	611	0	0	358	135	C	2	27.00	
19891026	2,751,128	492	560	604	0	0	321	96	C	2	27.00	
19910813	2,803,585	495	564	608	0	0	385	110	C	2	27.00	
19931229	2,859,540	607	693	761	0	0	372	70	C	2	0.91	
***** BOTTOM OF DATA *****												
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F7=UP	F8=DOWN	F9=SWAP	F10=LEFT			F11=RIGHT			F12=RETRIEVE			
B MY JOB			LU #17									

**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	0.27
%CO2	1.53
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	6898
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	841
BOTTOMHOLE PRESSURE (PSIA)	1001.9

CULPEPPER MARTIN SRC #10 DAKOTA - (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	0.27
%CO2	1.53
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	6898
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1715
BOTTOMHOLE PRESSURE (PSIA)	2079.5

CULPEPPER MARTIN SRC #10 DAKOTA - (ORIGINAL)

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----- DWIGHTS TEST DATA REPORT ----- ROW 1 OF 11
COMMAND ==>                                SCROLL ==> PAGE
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State: 30	Lease Name: CULPEPPER MARTIN	
Prod: 2	County Name: SAN JUAN	
Ident: 32N12W32K00DK	Reservoir Name: DAKOTA	
District: 4	Operator Name: MERIDIAN OIL INC	
Location: 32K 32N 12W	Field Name: BASIN (DAKOTA)	
Retrieval code: 251,045,32N12W32K00DK	Well: 000010	Total Depth: 6980
Gas Gath: SUG	Status: ACT	Upper Perf: 6800
API No: 1180000	Comp Date: 196609	Lower Perf: 6898

Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z FA
19660913	0	1715	2063	2374	0	0	0	2311	C	2	69.00
19700718	186,779	805	952	1033	0	0	473	100	C	2	22.00
19720718	240,210	805	952	1033	0	0	473	100	C	2	22.00
19730617	260,008	920	1091	1196	0	0	401	60	C	2	12.00
19750417	309,429	729	860	926	0	0	364	64	C	2	29.00
19770516	361,260	672	792	848	0	0	317	62	C	2	34.00
19790501	396,386	639	752	803	0	0	428	51	C	2	37.00
19810623	421,486	808	955	1036	0	0	416	50	C	2	22.00
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 #17								

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----- DWIGHTS TEST DATA REPORT ----- ROW 5 OF 11
COMMAND ==>                                SCROLL ==> PAGE
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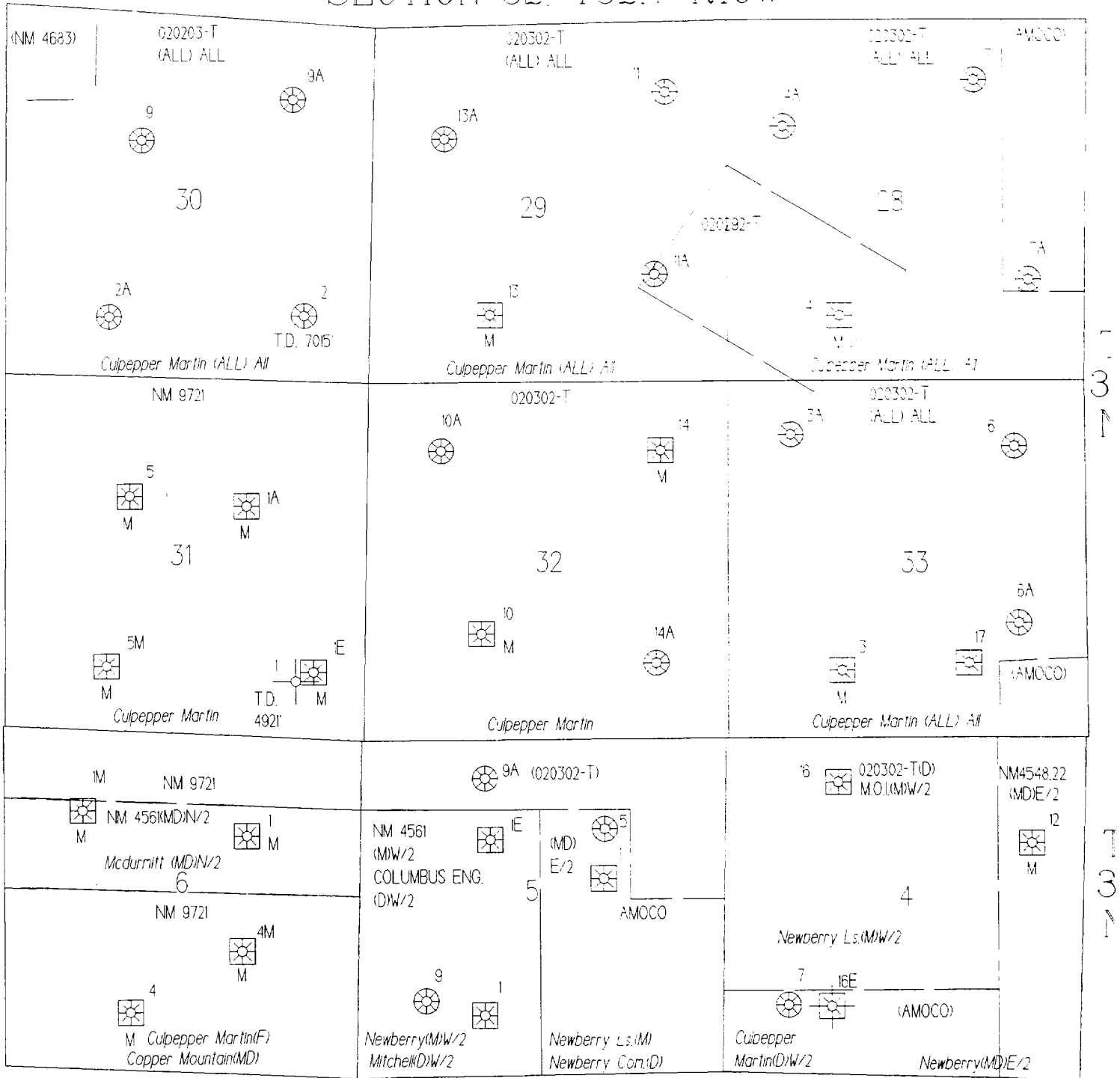
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State: 30                      Lease Name: CULPEPPER MARTIN
Prod: 2                        County Name: SAN JUAN
Ident: 32N12W32K00DK          Reservoir Name: DAKOTA
District: 4                    Operator Name: MERIDIAN OIL INC
Location: 32K 32N 12W          Field Name: BASIN (DAKOTA)
Retrieval code: 251,045,32N12W32K00DK  Well: 000010      Total Depth: 6980
Gas Gath: SUG                  Status: ACT              Upper Perf: 6800
API No: 1180000                Comp Date: 196609      Lower Perf: 6898

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Date	Cum to Test	WHSIP	BHP	P/Z	BDWtr	BDCnd	WHFlw	Poten	MC	Pt	Z	FA
19750417	309,429	729	860	926	0	0	364	64	C	2	29.00	
19770516	361,260	672	792	848	0	0	317	62	C	2	34.00	
19790501	396,386	639	752	803	0	0	428	51	C	2	37.00	
19810623	421,486	808	955	1036	0	0	416	50	C	2	22.00	
19830608	446,642	823	973	1056	0	0	437	17	C	2	21.00	
19850403	466,781	864	1023	1116	0	0	363	15	C	2	17.00	
19900608	505,987	841	995	1083	0	0	329	35	C	2	19.00	
***** 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 #17									

R-12-W



PRODUCTION ALLOCATION FORMULA METHOD

Culpepper Martin #10
(Mesaverde/Dakota) Commingle
Unit K, NE/4, 32-T32N-R12W
San Juan County, New Mexico

Allocation Formula Method:

Current Production from Mesaverde formation = 55 MCFD

Current Production from Dakota formation = 15 MCFD

$$\frac{[(MV \& DK) 70 \text{ MCFD} - (MV) 55 \text{ MCFD}]}{(MV \& DK) 70 \text{ MCFD}} = (DK) \% \text{ Dakota 21\%}$$

$$\frac{[(MV \& DK) 70 \text{ MCFD} - (DK) 15 \text{ MCFD}]}{(MV \& DK) 70 \text{ MCFD}} = (MV) \% \text{ Mesaverde 79\%}$$