

BURLINGTON RESOURCES

SAN JUAN DIVISION

August 20, 1996

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

RECEIVED
AUG 21 1996
OIL CON. DIV.
DIST. 3

Re: Decker #2 ^E
1090'FNL, 850'FEL Section 26, T-32-N, R-12-W, San Juan County, NM
API #30-045-12049

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 Mesa Verde/Dakota dual 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 curves for the Mesa Verde and Dakota 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.

xc: Bureau of Land Management

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

511 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 87505-6429Form 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
Decker 2 E-26-32N-12W San Juan

Lease Well No. Unit Ltr. - Sec - Twp - Rge Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 18512 API NO. 30-045-12049 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		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	5395-5483'		7629-7744'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	(Current) a. 615 psi (see attached)	a.	a. 1030 psi (see attached)
Oil Zones - Artificial Lift: Gas & Oil - Flowing: Current All Gas Zones: Measured Estimated or Measured Original	(Original) b. 1215 psi (see attached)	b.	b. 2239 psi (see attached)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1174		BTU 1164
7. Producing or Shut-In?	producing		producing
Production Marginal? (yes or no)	Yes		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: 7-96 Rates: 45 MCF/D, 0 BOPD	Date: Rates:	Date: 7-96 Rates: 9 MCF/D & 0 BOPD
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? ☒ Yes ☐ NoIf not, have all working, overriding, and royalty interests been notified by certified mail?
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. 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 ☐ No13. 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 8-2-96TYPE OR PRINT NAME Peggy Bradfield TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos 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 C-10:
Revised February 21, 199.
Instructions on back:
Submit to Appropriate District Office.
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-12049	Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 18512	Property Name Decker	Well Number 2
OGRID No. 14538	Operator Name MERIDIAN OIL INC.	Elevation 6603'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	26	32 N	12 W		1090	North	850	East	S.J.

11 Bottom Hole Location If Different From Surface

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

Dedicated Acres E/320 E/320	Joint or Infill	Consolidation Code	Order No.
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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

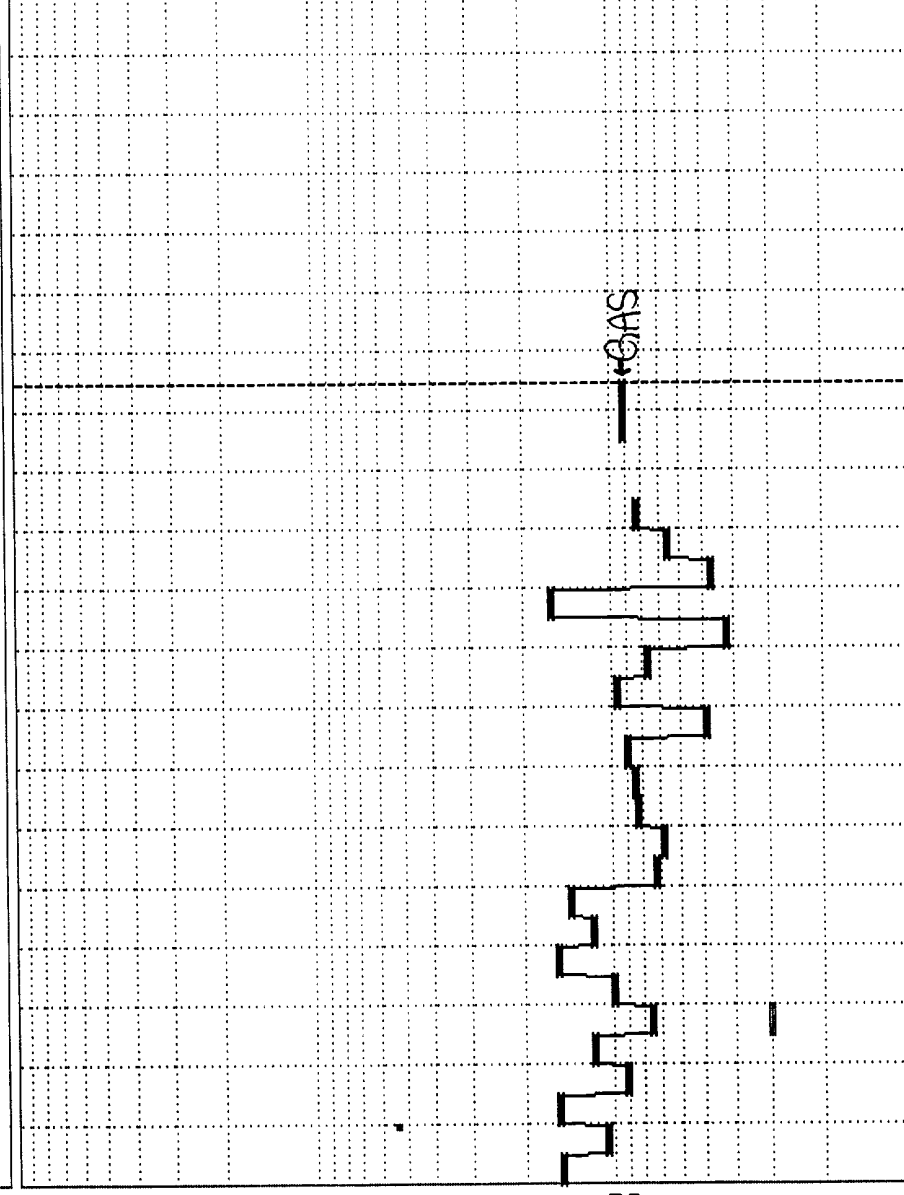
16 Not resurveyed, prepared from a plat by Russell H. McNeace dated 12-23-54.	26	1090' 850'	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Signature Peggy Bradfield Printed Name Regulatory Administrator Title Date 18 SURVEYOR CERTIFICATION 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 belief. 8-6-96 Date of Survey Signature and Seal of Surveyor NEAL G. EDWARDS 6857 6857 Certificate Number
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DAKOTA

DECKER : 2 : 12133-1

Prop : 237

GAS
Mcf/d

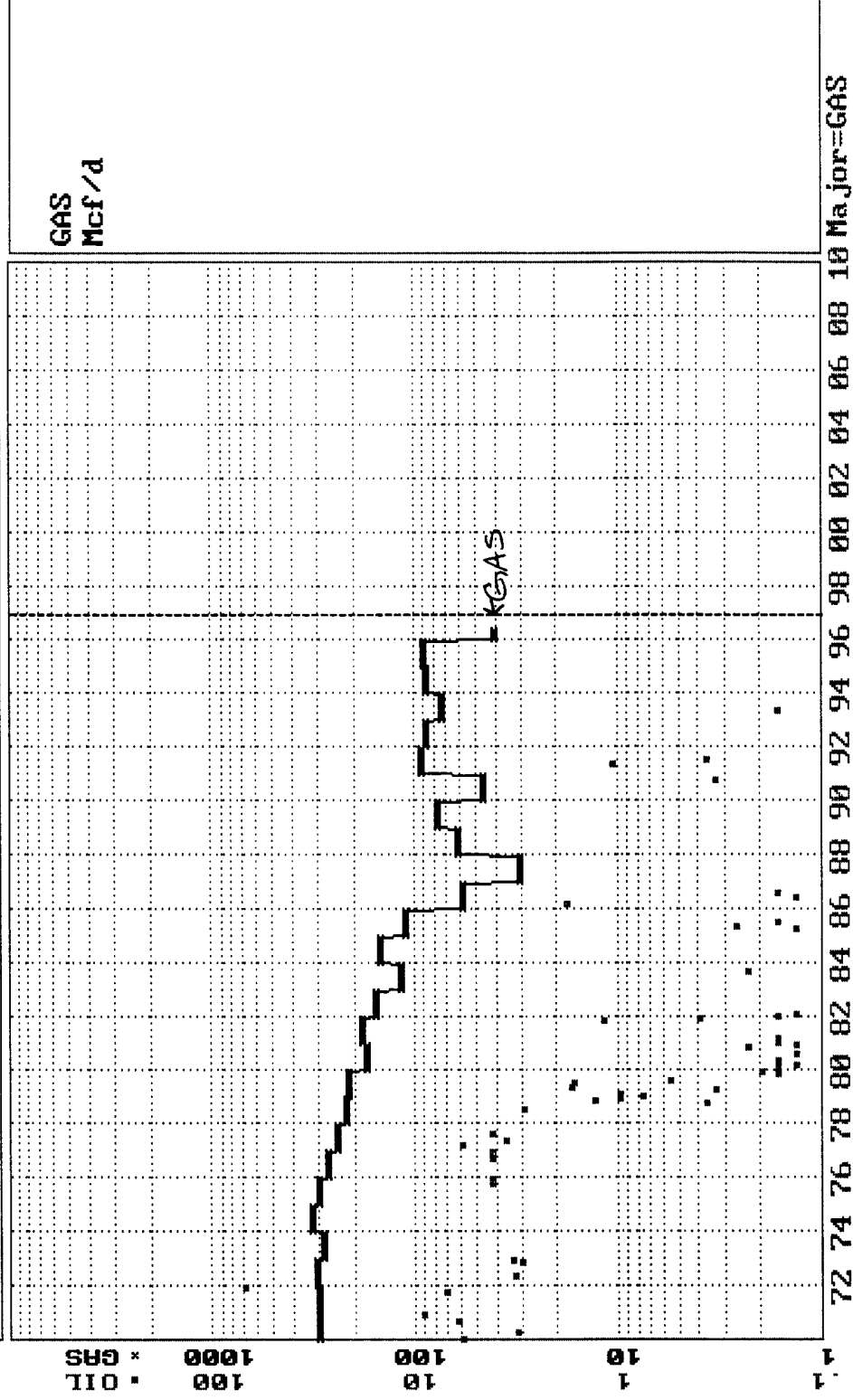


72 74 76 78 80 82 84 86 88 90 92 94 96 98 00 02 04 06 08 10 Major=GAS

MESAVERDE

DECKER : 2 : 12132-1

Prop: 168



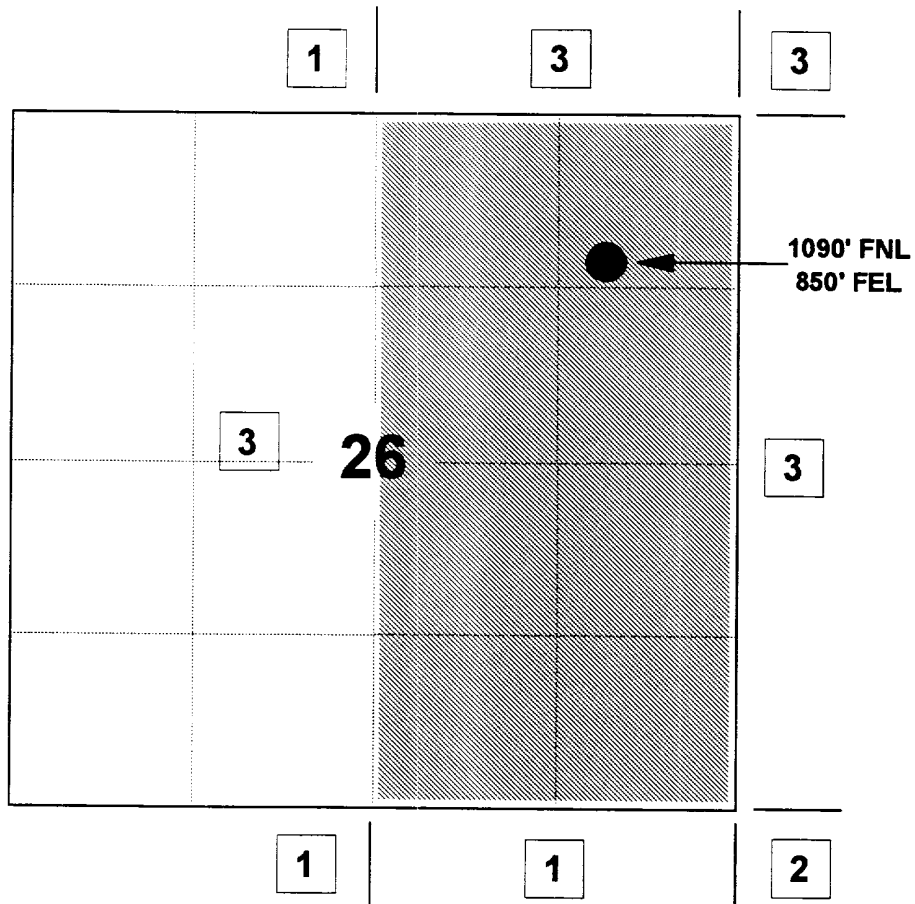
MERIDIAN OIL INC

DECKER #2

OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 32 North, Range 12 West



1) Meridian Oil Inc.

2) Conoco, Inc.

10 Desta Drive, Suite 100W, Midland, TX 79705-4500

3) Amoco Production Company

PO Box 800, Denver, CO 80201

Mesaverde Formation

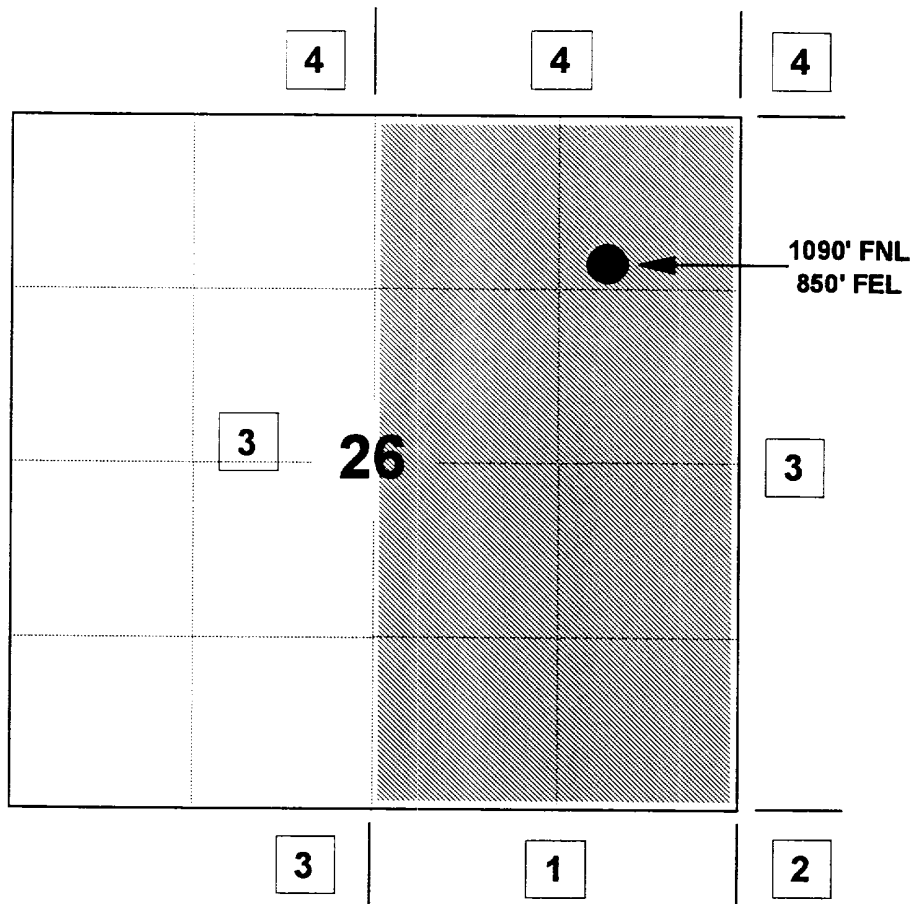
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1) Meridian Oil Inc.

2) Conoco, Inc.

10 Desta Drive, Suite 100W, Midland, TX 79705-4500

3) Amoco Production Company

PO Box 800, Denver, CO 80201

4) No Dakota Wells

Dakota Formation

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.673</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.27</u>
%CO2	<u>0.4</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>7744</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>200</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>853</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1029.8</u>

DECKER #2 DAKOTA - (CURRENT)

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.67</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.27</u>
%CO2	<u>0.4</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>7744</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>200</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1823</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>2239.1</u>

DECKER #2 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	0.26
%CO2	0.99
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	5483
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	536
BOTTOMHOLE PRESSURE (PSIA)	615.2

DECKER #2 MESAVERDE - (CURRENT)

**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>0.26</u>
%CO2	<u>0.99</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>5483</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1045</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>1214.5</u>

DECKER #2 MESAVERDE - (ORIGINAL)

DECKER #2 & #3
SECTION 23, 26, T32N, R12W
BLANCO MESAVERDE

6/78 52-678 0-2 1807-5 3A 39-842 0-0 3036-0 15 5/69 15-1446 0-3 2109-3.8 4 M Hubbard	5/78 51-894 0-2.5 2223-6 1A Chamberlin 14 8/51 144-885 0-1 3979-1.5 1 4/78 95-1177 0-3 1912.5 1A Decker (PM) S/2	(KIMBARK O&G) 9/54 186-2026 3 0-0 3A 4/79 195-1413 0-2 Horton 13 AMOCO 3/55 261-893 0-0 Moore Ls. 8/79 235-1792 0.5-4 3A
1/78 304-2685 0-9 6937-22 5A 22 9/51 125-812 0-4 3089-10 5 Cuppepper Martin (MD)	2/50 1 60-2400 0-7 3036.9 1 6/55 97-5661 0-18.5 7200-23 3 23 12/77 141-1354 0-4 2446.9 3A Decker (M) W/2 4/55 44-1990 0-4 4A 270-1797 0-5 3286-10 Moore Ls. (M) E/2	AMOCO 8/79 147-1632 0-4 5A P 24 9/52 68-1394 0-1.5 1962-2 1 2/55 233-2294 0-2 5 Moore Ls. (PM) W/2 5/78 303-1255 0-3.5 2512-5 IA P Dakasani (PM) E/2
KIMBARK O&G 4A 7/78 5-634 0-0 27 11/53 60-2282 0-0 4 Horton	AMOCO 2/55 44-1560 1 2A 7/78 130-1321 0-4.5 2 2/55 21-3351 0-7 2 Moore Ls. (M) W/2 SUBJECT WELL 2 M 5/55 92-2709 0-6 3463-6.5 2A P 2/79 342-2220 0-4 3805-11.5 Decker (PM) E/2	AMOCO 7/78 260-2221 0.5-5 7A 25 2/57 73-3033 0-6 6 Moore (M) 7/78 240-1559 0-3 6A 7 2/55 270-3571 1-7
8/79 305-2446 1-10.5 2B 34 2/55 48-1763 0.5-4.5 2 Newberry Ls. (PM) ALL	12/77 219-2051 0-10 3459-14 1A 35 7/53 135-3772 0-2.2 5911-36 1 Hillsform (PM) W/2 6/53 48-1770 0-2.5 2201-3 1 4/78 350-2116 0-8 2893.4 1A Moore (ALL) E/2	CONOCO 10/53 16-1162 0-0.5 5 36 8/53 140-1902 1-5.5 FX State Con. F. (M) S/2 10/78 24-783 0-2.5 1A

T
32
N

R-12-W