

D4C

1335 8/1/96

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 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator Coraco Inc.

10 Desta Dr., Ste 100W, Midland TX 79705

Lease Jicarilla EWell No. 8M

K-15-26N-4W

County Rio Arriba

Unit Ltr. - Sec - Twp - Rge

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. Q05073 Property Code 18022 API NO. 30-039-25423 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)	5598' - 5676'		7643' - 7803'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	a. (Current) 1195 psia	a.	a. 1476 psia
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original) 1350 psia	b.	b. 2630 psia
6. Oil Gravity (°API) or Gas BTU Content	1270 BTU		1290 BTU
7. Producing or Shut-in?	Producing		Shut-in
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In, give date 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: Rates:	Date: Rates:	Date: 7/95 Rates: rates proj. to mid-yr. 1996
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 1996 mid-yr Rates: 134 mcf/gpd .4 bopd, 0 bwpd	Date: Rates:	Date: 1996 mid-yr Rates: 187 mcf/gpd 5 bopd, 0 bwpd
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 7 % Gas: 42 %	Oil: % Gas: %	Oil: 93 % Gas: 58 %

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 Jerry W. Hoover TITLE Sr. Conservation Coordinator DATE 6/28/96

TYPE OR PRINT NAME Jerry W. Hoover TELEPHONE NO. (915) 686-6549

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-25423		Pool Code 72319	Pool Name Blanco Mesa Verde
Property Code 007691	Property Name Jicarilla E		Well Number 8M
OGRID No. 014591	Operator Name Merit Energy Company		Elevation 6769 GR

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
K	15	26N	4W		1550	South	1650	West	Rio Arriba

11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.

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

<p>16</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Sheryl J. Carruth</i> Signature Sheryl J. Carruth Printed Name Regulatory Manager Title 7-19-95 Date</p>	
	<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>Date of Survey Signature and Seal of Professional Surveyer:</p>	
	<p>Certificate Number</p>	

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-1
Revised February 21, 19
Instructions on ba
Submit to Appropriate District Offi
State Lease - 4 Copi
Fee Lease - 3 Copi

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-25423		2 Pool Code 71599		3 Pool Name Basin Dakota	
4 Property Code 007691		5 Property Name Jicarilla E			6 Well Number 8E
7 OGRID No. 014591		8 Operator Name Merit Energy Company			9 Elevation 6769 GR

10 Surface Location

UL or lot no. K	Section 15	Township 26N	Range 4W	Lot Idn	Feet from the 1550	North/South line South	Feet from the 1650	East/West line West	County Rio Arriba
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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
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16				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Sheryl J. Carruth Printed Name Regulatory Manager Title 8-1-94 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. Date of Survey Signature and Seal of Professional Surveyor: Certificate Number					

Dwights

Lease: JICARILLA E 008E

Retrieval Code: 251,039,0392542371599

05/23/96

10³
10³
10³

10²
10²

10²
10²

10
10

10
10

1
1

1
1

1994

1996

1998

2000

Gas (mcf/day)

Water (bbl/day)

Oil (bbl/day)

Well Count

County: RIO ARRIBA, NM

Field: BASIN (DAKOTA) DK

Reservoir: DAKOTA

Operator: CONOCO INC

F.P. Date: 08/94

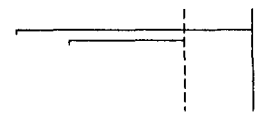
Oil Cum: 2079 bbl

Gas Cum: 75.69 mmcf

Location: 15K 26N 4W

W

W



Dwights

Lease: JICARILLA E 8M

Retrieval Code: 251,039,0392542372319

05/23/96

10³
10³
10³

10²
10²
10²

10
10

1
1
2001

Oil (bbl/day)
Well Count

F.P. Date: 07/95
Oil Cum: 96 bbl
Gas Cum: 37.39 mmcf
Location: 15K 26N 4W

County: RIO ARRIBA, NM
Field: BLANCO (MESAVERDE) MV
Reservoir: MESAVERDE
Operator: CONOCO INC

Gas (mcf/day)
Water (bbl/day)

10³
10³
10³

10²
10²
10²

10
10

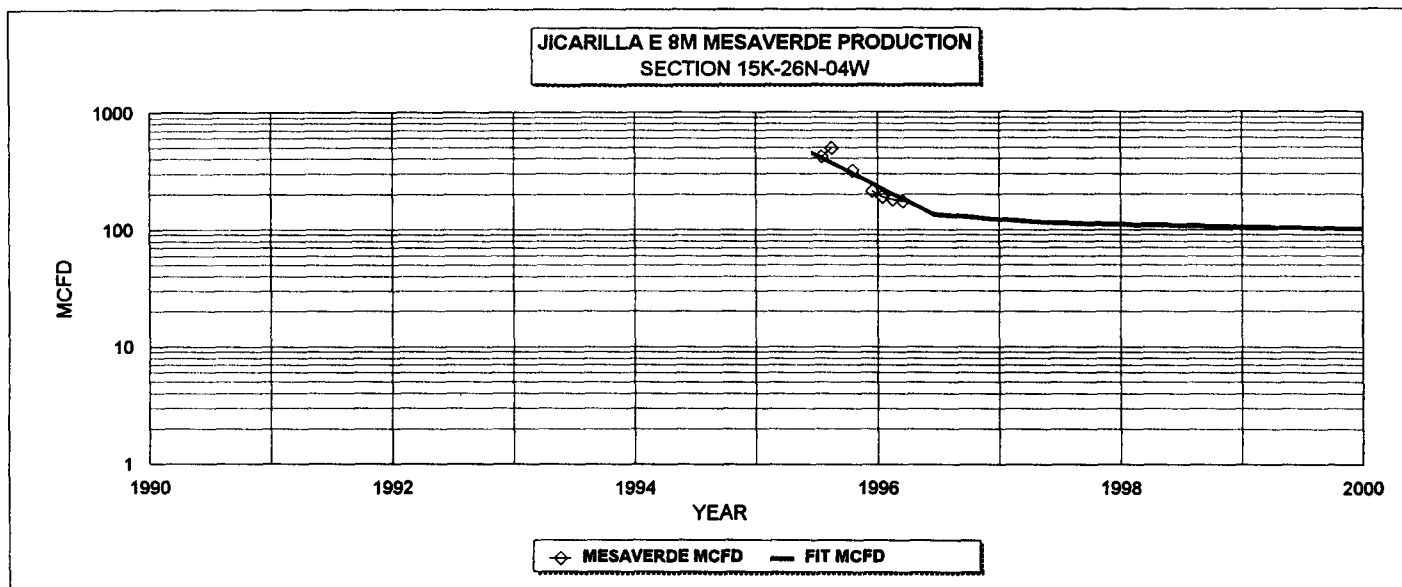
1
1

1995

1997

1999

2001



MESAVERDE HISTORICAL DATA: 1ST PROD: 7/95

OIL CUM: 0.17 MBO

GAS CUM: 60.4 MMCF

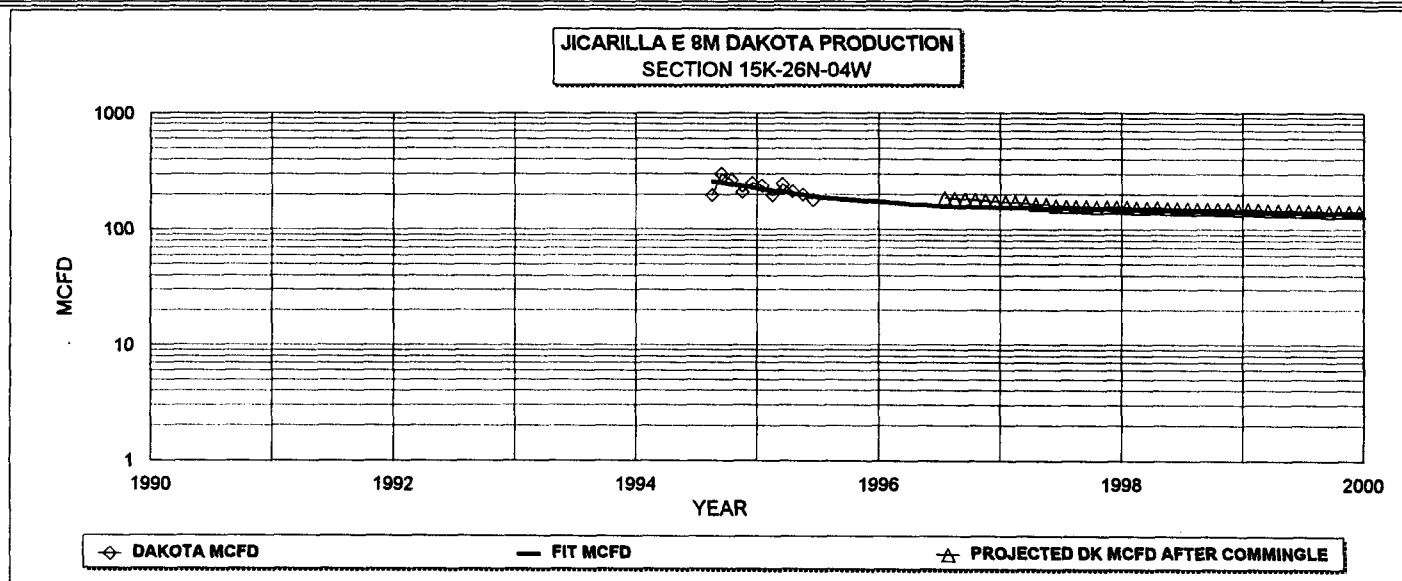
OIL YIELD: 0.0028 BBL/MCF

MESAVERDE PROJECTED DATA

7/1/96 Qi: 133 MCFD

DECLINE RATE: 15.0% THROUGH 7/97

4.5% FINAL DECLINE



DAKOTA HISTORICAL DATA 1ST PROD: 8/94

OIL CUM: 2.1 MBO

GAS CUM: 75.7 MMCF

OIL YIELD: 0.0275 BBL/MCF

DAKOTA PROJECTED DATA

7/1/96 Qi: 187 MCFD

DECLINE RATE: 15.0% THROUGH 7/97

4.5% FINAL DECLINE

FIXED COMMINGLE ALLOCATION FACTORS:

	GAS	OIL
DAKOTA	58%	93%
MESAVERDE	42%	7%

GAS ALLOCATION BASED ON TABLE AT RIGHT

OIL ALLOCATION BASED ON WEIGHTED CUM OIL YEL

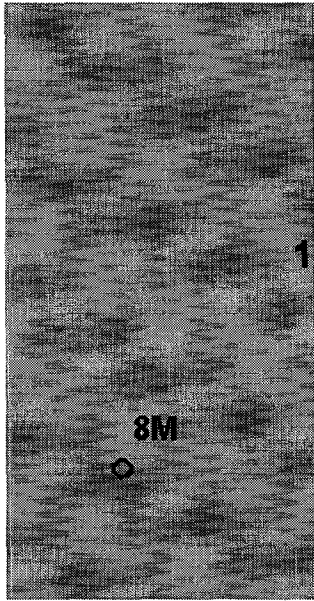
	YRLY AVG	YRLY AVG	%	%
YRLY AVG:	DK MCFD	MV MCFD	DAKOTA	MV
1996	181	129	58%	42%
1997	162	116	58%	42%
1998	153	109	58%	42%
1999	146	104	58%	42%
2000	139	100	58%	42%
2001	133	95	58%	42%

NOTE: ALL PRODUCTION DATA FROM DWIGHTS ENERGY DATA

NOTE: 1996 yrly avg is for 2nd half of year only

Jicarilla "E" No. 8M

OFFSET OPERATORS

9	10	11
AMOCO	AMOCO	Conoco
Conoco		Conoco
16	15	14
Conoco	Conoco	Conoco
21	22	23

Township 26N --- Range 4W