| - 6/17/ | 99. | -71- | 7/99 | _ D | <u>ر</u> | ! | \sim | _DH< |
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| pplication Ac | (DHC [P |) Downhole Co C-Pool Comr (WFX-W (SW) | ningling} [0 aterflood Exp VD-Salt Water | al Drilling] [CTB-Lease LS - Off-Leas ansion] [PM Disposal] | (SD-Simulta Comminglin a Storage) AX-Pressure (PI-Injection | ineous Dedic ng] [PLC-Po {OLM-Off-L e Maintenanc n Pressure In | ation] col/Lease Comr ease Measurer e Expansion] | nent] |
| | | | | 1 | | C (1) | | |
| I] TYPE | [A] | | ON - Check - Spacing U NSP | | | | | UN 17 999 |
| | Check [B] | | for [B] or [(ling - Storag CTB | | | OLS | DOLM | |
| | [C] | • | Disposal - | | rease - En | | Recovery | |
|] NOTI | FICAT [A] | | U IRED TO ng, Royalty o | | | • • • | Does Not | Apply |
| | [B] | Offset (| Operators, L | easeholders | or Surfac | e Owner | | |
| | [C] | C Applica | ation is One | Which Req | uires Publi | ished Legal | Notice | |
| | [D] | Notifica | ation and/or Bureau of Land Ma | Concurrent | Approval missioner of Pub | by BLM or Nic Lands, State L | SLO and Office | |
| | [E] | | | | | | lion is Attach | ed, and/or, |
| | | | | | | | | |

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken. 2 V

| Note: Statement invest be completed by an individual with supervisory cap | |
|---------------------------------------------------------------------------|-------------|
| Signature | - <u>10</u> |

ION

199



June 16, 1999

Ms. Lori Wrotenberry New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

RE: Administrative Approval to Downhole Commingle Energen Resources Corporation Jicarilla West #7
990' FSL, 940' FWL, Sec. 8, T26N, R5W, N.M.P.M. Rio Arriba County, New Mexico

Dear Ms. Wrotenberry:

Energen Resources Corporation requests to downhole commingling the Blanco Mesaverde and Basin Dakota pools in the subject well. The Dakota zone was temporarily abandoned in 1995 and the well is producing as a single Mesaverde. Since the packer must be milled out to return the Dakota zone to production, it is felt the most economical way to produce the well is by downhole commingling the two Zones. In addition, the Mesaverde flowstream will assist in keeping the Dakota unloaded and producing.

To comply with New Mexico Oil Conservation Rules, Energen Resources Corporation is submitting the following data for your approval of the proposed commingling:

- 1. For C107A Application for Downhole Commingling
- 2. C-102 Location plat showing each spacing unit and dedicated acreage
- 3. Production curves for both the Mesa Verde and Dakota
- 4. Offset operator plat
- 5. Well location plat.

In accordance to New Mexico Oil Conservation Division Rule 303C, all offset operators are being notified of this application by certified mail. As an offset operator, if you have no objection to this application, you do not have to respond to this notification.

If additional information is needed, please contact me.

Sincerely,

Gary W. Brink Production Superintendent

GWB/mt

cc: NMOCD - Aztec, BLM-Albuquerque, Offset Operators F:MONICA/PRODUCTI/OCD/JIC96-1 3-99.DOC

| DISTRICT | ļ |
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5

P.O. Box 1980, Hobbs, NM 88241-1980 <u>DISTRICT II</u> 811 S. First St., Artesia, NM 88210-2835 DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

11 N X 11 11

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 875054-6429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A New 3-12-96 APPROVAL PROCESS:

X_Administrative ____Hearing

EXISTING WELLBORE

X_YES ___NO

ENERGEN RESOURCES CORPORATION

2198 Bloomfield Highway, NM 87401

| Operator | 1 | Address | | Ingiway | <u>, Mri 074</u> | 01 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------|-------------------------------|--------------------------|-------------------------------------------------------------------|
| Jicarilla West | 7 | M | Sec. 8 | T26N | R5W | Rio Arriba, NM |
| Lease | Well No. | Unit L.tr S | ec - Twp - Rge | | Spacing | County Unit Lease Types: (check 1 or more) |
| OGRID NO. 162928 Property Coo | le 21958 AF | PINO. <u>30-0</u> | 39-06564 | | | (_, State, (and/or) Fee |
| The following facts are submitted in support of downhole commingling. | Upper Zone | | | Intermediate Zone | | Lower Zon o |
| 1. Pool Name and Pool Code | Blanco MV 72319 | | | | | Basin DK 71599 |
| 2. Top and Bottom of Pay Section (Perforations) | 4944 - 5494 | ļ | | | | 7441 - 7670 |
| 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: | a. ^(Current) 719 Calc | | a. | | | a. 917 Calc |
| All Gas Zones: Estimated Or Measured Original | _{b.} ^(Original) 1341 Calc | | b. | | | ^{ь.} 2872 Calc |
| 6. Oil Gravity (⁰ API) or Gas BTU Content) | 1212 BTU | | | | | 1159 BTU |
| 7. Producing or Shut-In? | Producing | | | | | Shut In |
| Production Marginal? (yes or no) | No | | | | | 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: 10/94 Rates: 1/21/0 |
| If Producing, give date and oil/gas/ water rates of recent test (within 60 days) | Date: 6/7/99 Rates: 1/126/.2 | | Date: Rates: | | | Date: Rates: |
| 8. Fixed Percentage Allocation Formula -% for each zone | Oil: Gas: 50 % | 86 [%] | Oil: | Gas: % | % | Oil: Gas: 50 [%] Gas: 14 [%] |
| 9. If allocation formula is based submit attachments with supp | upon something other orting data and/or e | than curr xplaining r | ent or past method and | t productic providing | n, or is b rate proje | ased upon some other method, ections or other required data. |
| 10. Are all working, overriding, and ro If not, have all working, overriding Have all offset operators been give | yalty interests identica , and royalty interests I ven written notice of th | l in all com been notific e proposed | mingled zon ed by certifie d downhole o | es? ed mail? comminglin | g? | <u>X</u> Yes No Yes No X Yes No |
| 11. Will cross-flow occur? flowed production be recovered, | Yes <u>X</u> No If yes, and will the allocation | are fluids formula be | compatible, e reliable. | will the f | ormations i Yes | not be damaged, will any cross- No (If No, attach explanation) |
| 12. Are all produced fluids from all co | ommingled zones comp | atible with | each other? | , | <u>X</u> | res No |
| 13. Will the value of production be de | creased by comminglin | g? | Ye | s <u>X</u> No | (If Yes | s, attach explanation) |
| 14. If this well in on, or communitized United States Bureau of Land Ma | l with, state or federal nagement has been not | lands, eithe tified in wri | er the Comm ting of this a | issioner of application. | Public Lan | ds or the No |
| 15. NMOCD Reference Cases for Rul | e 303(D) Exceptions: | ORE |)ER NO(S) | | | |
| 16. ATTACHMENTS: * C-102 for each zone * Production curve for e * For zones with no prof * Data to support alloca * Notification list of all o * Notification list of wor * Any additional statement | ach zone for at least or duction history, estimat tion method or formula. | ne year. (If ed product | i not availabi ion rates an | le, attach e d supportir | xplanation. g data. |) |
| I hereby certify that the information a | | | | _ | | lula |
| SIGNATURE AM | Dun 1 | | TITLE Pro | <u>d. Super</u> | <u>intendent</u> | DATE <u>6 16 99</u> |
| TYPE OR PRINT NAME Gary W. B | rink | | | TELEPHO | ONE NO. (| 505) 325-6800 |

TELEPHONE NO. (505) 325-6800

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

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OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

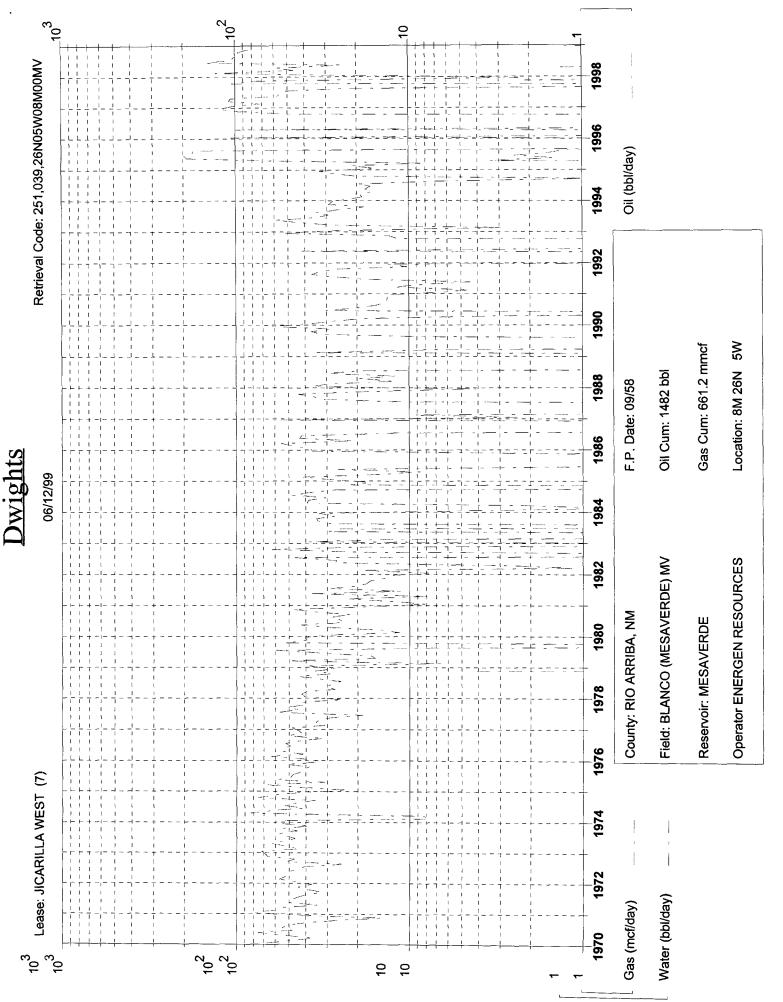
Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

X AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| ¹ A | PI Number | | | ² Pool | Code | | | ³ Pool Name | | | |
|------------------------------------------|---------------------|-----------|------------------|-------------------|------------------------|------------------|------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------|
| 30- | 039-065 | 64 | | 72 <u>319</u> / | /71599 | | | <u>Blanco MV/Ba</u> | sin DK | | |
| ⁴ Property C | Code | | | | 5 | Property Nar | ne | | | 6 1 | Well Number |
| 21958 | 3 | | | | | <u>carilla k</u> | | | | | 7 |
| 7 OGRID N | No. | | | | 8 | Operator Nar | ne | | | 9 | Elevation |
| 16292 | .8 | | <u></u> | E | NERGEN R | ESOURCES | CORPORATION | | | L | 6680' |
| | | | | | ¹⁰ Sur | face Locati | on | | | | |
| UL or lot no. | Section | Township | Range | Lot. Id | n Feet | from the | North/South Line | Feet from the | East/W | 'est line | County |
| M | 8 | 26N | 5W | | | 990' | South | 940' | We | st | Rio Arriba |
| | | | ¹¹ Bo | ttom H | ole Locati | on If Diffe | rent From Surfac | e | | | |
| UL or lot no. | Section | Township | Range | Lot. Id | In Feet | from the | North/South Line | Feet from the | East/W | est line | County |
| ¹² Dedicated Acres 320/320 | ¹³ Joint | or Infill | Consolidation | Code | ¹⁵ Order No |). | | L | | | |
| | ABLE W | | | | | | INTIL ALL INT APPROVED BY | | | N CON | SOLIDATED |
| | | | | | | | <u> </u> | ¹⁷ OPERA I hereby certify th | FOR C hat the ii | nformation | ICATION n contained herein is |
| | | | | | | | | Signature Printed Name Gary W. Br Title Produciton Date 6/10 18 SURVE | ink Super 199 YOR (| -inten CERTII | |
| 940 ^{^_} | ₽0 <i>kb</i> | | | | | | | was plotted from | field not supervision est of my b of Profe f Ori Echo | tes of action, and elief. B ssional Su .gina] | tual surveys made by that the same is true that the same is true |

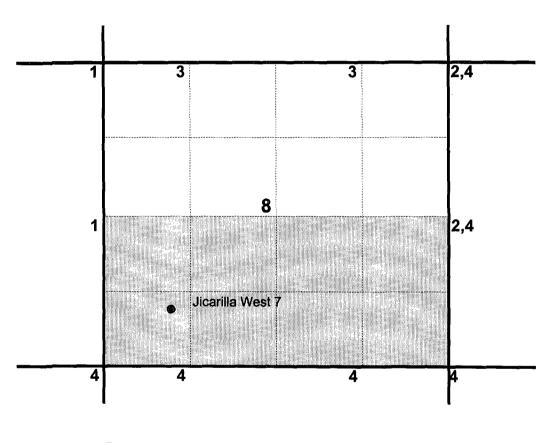
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| 1972 1974 1976 1984 1986 1988 1990 1992 1994 1972 1976 1978 1980 1982 1986 1986 1990 1992 1994 1972 1976 1978 1980 1982 1986 1986 1990 1992 1994 1971 1976 1978 1982 1982 1986 1990 1992 1994 1971 1976 1982 1982 1986 1986 1990 1992 1994 1971 County: RIO ARRIBA, NM F.P. Date: 09/58 0il (ubl/day) 1990 1992 1994 1971 Field: BASIN (DAKOTA) DK Oil Cum: 6088 bbl Reservoir: DAKOTA Cate: 09/58 Oil (ubl/day) 1972 Pate: 09/58 Location: 8M 26N 5W SW SW SW | 1 | | ا هد | | | - - - - - - - - - - - - - - - - - | | | - | | · [== -1 == -1 == -1 = -1 = -1 = -1 = -1 = | | |
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|) County: RIO ARRIBA, NM F.P. Date: 09/58 Oil (bbl/day)) Field: BASIN (DAKOTA) DK Oil Cum: 6088 bbl Oil Cum: 6088 bbl Reservoir: DAKOTA Gas Cum: 670.9 mmcf Cometor ENERGEN RESOURCES Location: 8M 26N 5W | | | 1976 | 1978 | 1980 | 1982 | 1984 | 1986 | 1988 | 1990 | 1992 | 1994 | 1996 |
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| Field: BASIN (DAKOTA) DK Oil Cum: 6088 bbl Reservoir: DAKOTA Gas Cum: 670.9 m Operator ENERGEN RESOURCES Location: 8M 26N | Gas (mcf/day) | | County: RIC |) ARRIBA, N | Ň | | F.P. Dat | te: 09/58 | | | Oil (bbl/da) | ···· (/ | |
| Gas Cum: 670.9 m URCES Location: 8M 26N | Water (bbl/day) | 4 | Field: BASIN | и (ракота) | Ŋ | | Oil Cum | :: 6088 bbl | | | | | |
| Gas Cum: 670.9 m URCES Location: 8M 26N | | | | | | | | | | | | | |
| URCES Location: 8M 26N | | | Reservoir: C | DAKOTA | | | Gas Cur | m: 670.9 mr | ncf | | | | |
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Energen Resources Corp.

Jicarilla West 7 Offset Operator / Ownership Plat Blanco Mesa Verde/ Basin Dakota Downhole Commingling

Township 26 N, Range 5 W



- 1) Energen Resources
- 2) Burlington Resources P.O. Box 4289 Farmington, N.M. 87499
- 3) Graystone Energy Inc. 5802 Highway 64 Farmington, N.M. 87401
- 4) Amoco Production Co. 200 Amoco Ct. Farmington, N.M. 87401

