

### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

September 8, 1998

Dugan Production Corporation P. O. Box 420 Farmington, New Mexico 87499-0420 Attention: Kurt Fagerlius



Administrative Order NSL-4131

Dear Mr. Fagerlius:

Reference is made to your application dated August 7, 1998 for an exception to the well location requirements provided within the "Special Rules and Regulations for the Basin-Dakota Pool," as promulgated by Division Order No. R-10987, for a non-standard Basin-Dakota replacement gas well location in an existing standard 320-acre lay-down gas spacing and proration unit for the Basin-Dakota Pool comprising the S/2 of Section 10, Township 26 North, Range 9 West, NMPM, San Juan County, New Mexico. This unit is currently dedicated to Dugan Production Corporation's Huerfanito Well No. 5-E (API No. 30-045-29465), located a standard gas well location 1850 feet from the South and East lines (Unit J) of Section 10.

Initial development of Basin-Dakota gas production within the subject 320-acre unit commenced in 1964 when Austral Oil Company Incorporated drilled its Huerfanito Well No. 5 (API No. 30-045-05912) at a standard gas well location 1190 feet from the South line and 1450 feet from the West line (Unit N) of Section 10. In June, 1998 Dugan Production Corporation, successor operator, plugged and abandoned the Huerfanito Well No. 5.

The application has been duly filed under the provisions of Rules 104.F and 605.B of the Rules and Regulations of the New Mexico Oil Conservation Division ("Division").

By the authority granted me under the provisions of Division Rule 104.F(2), the following described well to be drilled at an unorthodox gas well location in Section 10 is hereby approved:

Huerfanito Well No. 5-R 840' FSL & 2490' FWL (Unit N). → \$\frac{1}{2} \langle 0 = 9

Further, both of the aforementioned Huerfanito Well Nos. 5-E and 5-R and existing gas spacing and proration unit will be subject to all existing rules, regulations, policies, and procedures applicable to prorated gas pools in Northwest, New Mexico.

Sincerely,

Lori Wrotenbery

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Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Aztec

U. S. Bureau of Land Management - Farmington

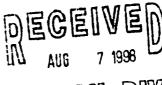


# dugan production corp.



August 7, 1998

Mr. Frank Chavez New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410



OIL CON. DIV

Re: Application for Administrative Approval of Unorthodox Location Dugan Production Corp's. Huerfanito #5R 840' FSL & 2490' FWL (SE/4 SW/4) Unit N, Section 10, T26N, R9W San Juan County, New Mexico Basin Dakota Pool

Dear Mr. Chavez:

Dugan Production Corp. hereby requests approval for an unorthodox location for the referenced well. Copies of the well location plat (NMOCD Form C-102), topographic map, map showing offsetting operators, cumulative Dakota gas production map and a stratigraphic cross section are attached for your reference.

For geologic reasons, the location of this replacement well is necessary for Dugan Production in order to minimize economic risk and maximize recovery of the remaining Dakota reserves from this lease. The enclosed cross section and Dakota production map show that a well drilled at the chosen location will encounter good sand development and recover the highest cumulative gas production from a relatively undrained portion of the reservoir.

By certified mail, a copy of this application and request for approval has been sent to all Dakota offsetting operators and the Bureau of Land Management. Also, a copy of this application has been sent to Mr. Michael Stogner with the NMOCD in Santa Fe, New Mexico.

Please contact me if you have any questions or need additional information.

Very Sincerely,

Kurt H. Fagrelius

Kart Fegrelius

Geologist

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|  |  |  | ABOVE THIS LINE P   | OR DIVISION USE ON  | <u>.</u>   |  |   |  |
| NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -  |  |  |   |   |  |  |   |  |
|  |  | ADMINISTRAT  | IVE APP   | LICATIO   | N COV  | ERSHEET  |   |  |
|  |  | ERSHEET IS MANDATORY FOR ALL A   | DMINISTRATIVE AP  | PLICATIONS FOR  | EXCEPTIONS TO  | DIVISION RULES AND   | REGULATIONS   |  |
| Application Ac   | ,<br>(DHC-I<br>(PI   | [NSP-Non-Standard<br>[DD-Direction<br>Downhole Commingling]<br>C-Pool Commingling] [O<br>[WFX-Waterflood Exp<br>[SWD-Salt Water<br>Qualified Enhanced Otl Re | al Drilling] [:<br>[CTB-Lease (<br>PLS - Off-Lease<br>ansion] [PM<br>Disposal] [1 | SD-Simultan<br>Commingling<br>Storage]<br>IX-Pressure I<br>PI-Injection I | eous Dedic<br>] [PLC-Po<br>[OLM-Off-L<br>Aaintenanc<br>Pressure In | ation]<br>col/Lease Commesse Measurem<br>e Expansion]<br>crease] | ent]  |  |
| [1] TYPE   | [A]  | PPLICATION - Check<br>Location - Spacing Un<br>NSL NSP   |   |   |  |  |   |  |
|  | Check<br>[B]   | One Only for [B] or [C Commingling - Storage DHC CTB   | ge - Measure  |   | □ ols  | OLM  |   |  |
|  | [C]  | Injection - Disposal - I   |   |   | anced Oil  | Recovery  PPR  |   |  |
| [2] <b>NOTI</b>  |  | ION REQUIRED TO:  Working, Royalty of  |   |   |  |  | Apply   |  |
|  | [B]  | Offset Operators, L  | easeholders (   | or Surface (  | Owner  |  |   |  |
|  | [C] Application is One Which Requires Published Legal Notice |  |   |   |  |  |   |  |
| [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office |  |  |   |   |  |  |   |  |
| [E] For all of the above, Proof of Notification or Publication is Attached, and/or,  |  |  |   |   |  |  |   |  |
|  | [F]  | ☐ Waivers are Attache  | ×d  |   |  |  |   |  |
| [3] INFOR  | MATIC  | ON / DATA SUBMIT   | TED IS CO   | MPLETE  | - Statemer   | nt of Understa   | nding   |  |
| hereby certify<br>Regulations of<br>approval is accu<br>U, ORRI) is co   | that I, on the Oil (curate and ommon.                        | or personnel under my some conservation Division. It complete to the best of I further verify that all mation or notification is                             | supervision,<br>Further, I a<br>of my knowle<br>applicable A                      | have read a<br>assert that the<br>edge and water<br>API Numbe             | nd compline attached<br>here appliers are incl                     | ed with all ap<br>d application f<br>cable, verify the           | plicable Rules and<br>for administrative<br>hat all interest (WI, |  |
| Note: Statement must be completed by an individual with supervisory capacity.  |  |  |   |   |  |  |   |  |
| Yurt Fagre Print or Type Name  | lius   | Kurt Fa  | agraline  | <u> </u>  | Geolog<br>itle   | ist  | <u>8 - 7 - 98</u><br>Date   |  |

District I PO Box 1980, Hobbs, NNI 88241-1980 District II PO Drawer DD, Artesia, NNI 88211-0719 District III 1000 Rio Brazos Rd., Aziec, NNI 87410 District IV PO Box 2088, Santa Fe, NNI 87504-2088

API Number

#### State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

2 Pool Name

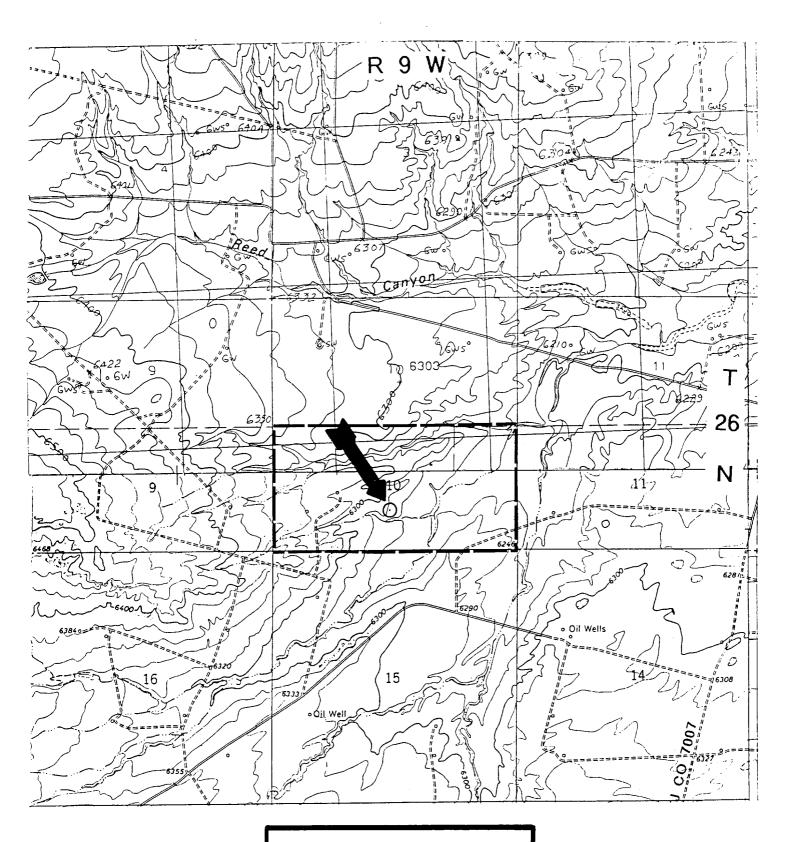
State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

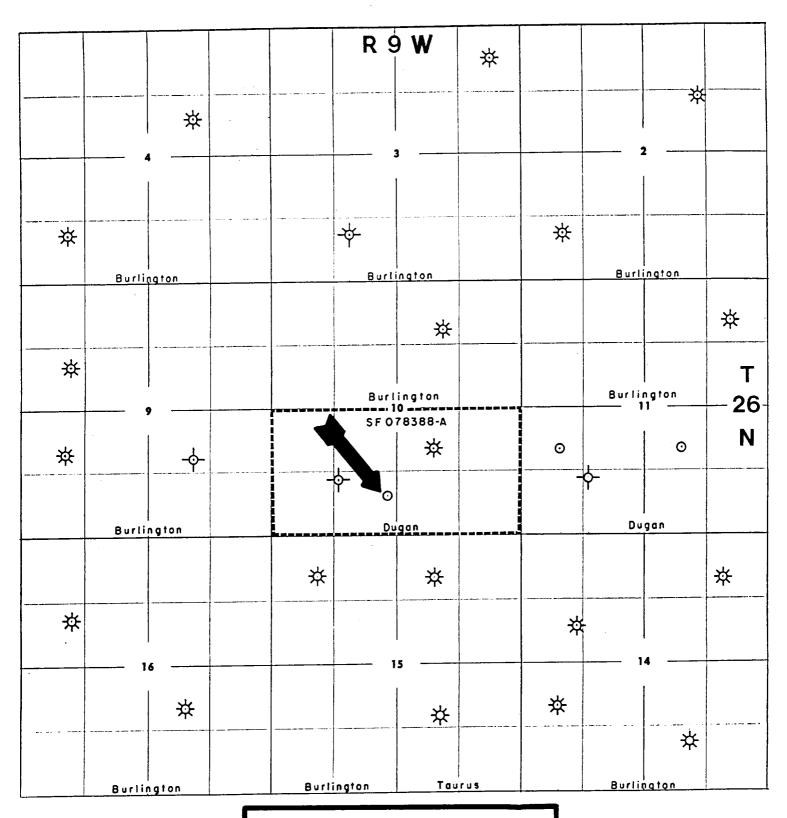
## WELL LOCATION AND ACREAGE DEDICATION PLAT

1 Pool Code

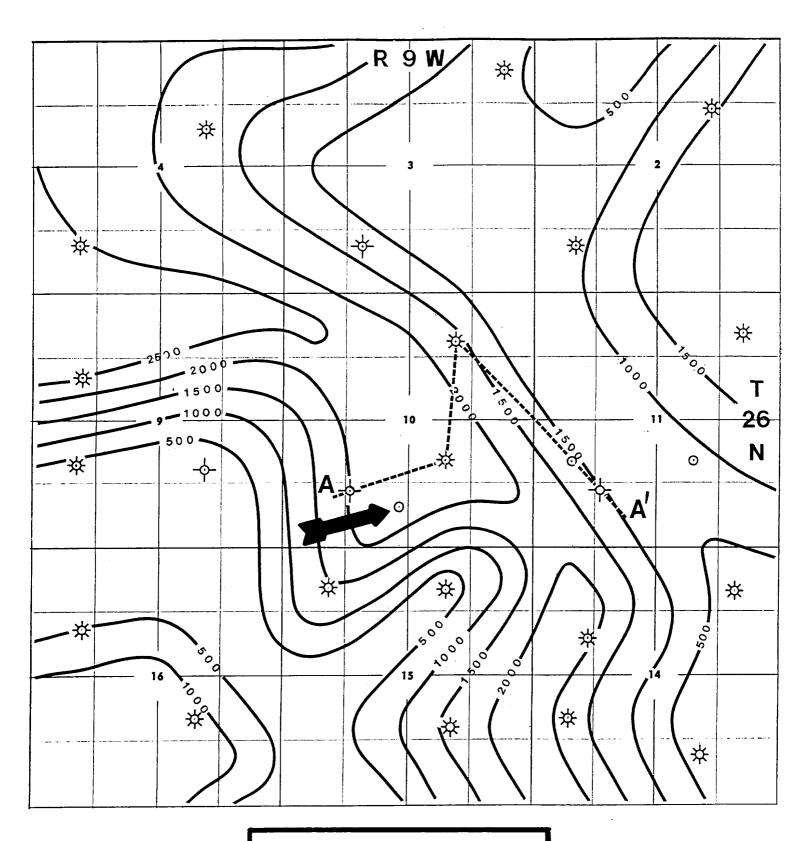
|                                | 71599 Basin Dakota |           |                  |                |               |                      |  |                               |                |                       |  |  |  |
|--------------------------------|--------------------|-----------|------------------|----------------|---------------|----------------------|--|-------------------------------|----------------|-----------------------|--|--|--|
| <sup>4</sup> Property Code     |                    |           | ¹ Property Name  |                |               |                      |  |                               | * Well Numb    |                       |  |  |  |
|                                |                    |           | Huerfan          | ito            | ·             |                      | 5R   |                               |                | 5R                    |  |  |  |
| 006515                         | No.                |           |                  |                |               | nr Name              |  |                               | ' Elevation    |                       |  |  |  |
| 000515                         |                    | <u> </u>  | Dugan P          | roductio       | n Corporatio  | on                   |  |                               |                | 6275                  | ' Estimated                              |  |  |
| <sup>10</sup> Surface Location |                    |           |                  |                |               |                      |  |                               |                |                       |  |  |  |
| UL or lot no.                  | Section            | Townsh    | Township Range   |                | Feet from the | North/South line   1 |  | Feet from the Fast/Wes        |                | t line                | County                                   |  |  |
|                                | 10                 | 26N       | 9W               | N              | 840           | South                | 1  | 2490                          |                |                       | San Juan                                 |  |  |
|                                |                    |           | 11 Bott          | om Hol         | e Location    | If Different Fr      | Surface  |                               |                |                       |  |  |  |
| UL or lot no.                  | Section            | Township  | p Range          | Lot Idn        | Feet from the | North/South line     | Feet   | from the                      | Fast/West      | line                  | County                                   |  |  |
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| 12 Dedicated Acr               | es '' Joint        | or Infill | 14 Consolidation | Code 11 ()     | rder No.      |                      | ·•.  |                               |                |                       | <del></del>                              |  |  |
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|                                |                    | OR A      | A NON-STA        | NDARD          | UNIT HAS E    | BEEN APPROVED        | BY   | THE DIVI                      | SION           |                       |  |  |  |
| 16                             |                    |           |                  |                |               |                      |  | 17 OPER                       | ATOR           | CERT                  | IFICATION                                |  |  |
|                                |                    |           |                  |                |               |                      | I hereby certify that the info                           |                               |                | ontained herein is    |  |  |  |
|                                |                    |           |                  |                |               |                      | true and complete to the best of my knowledge and belief |                               |                |                       |  |  |  |
|                                |                    |           | 1 191            | DEGENVEN       |               |                      |  |                               |                |                       |  |  |  |
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|                                |                    |           |                  | 37             | n can         | E LLA                |  | Signature<br>Sherman E. Dagan |                |                       |  |  |  |
|                                | 1                  |           |                  | 1              |               |                      |  | Printed Name                  |                |                       |  |  |  |
|                                |                    |           |                  |                |               | •                    | -    :   | Vice-Pr                       | <u>esiden</u>  | t //                  |  |  |  |
| ļ                              |                    |           |                  |                |               |                      |  | June 18                       | 1998           |                       |  |  |  |
|                                |                    |           | Section          | 10             |               |                      |  |                               | Date           |                       |  |  |  |
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|                                |                    |           | Dugan<br>SF      | Produ          |               |                      | 4 18   |                               |                |                       | shown on this plat<br>surveys made by me |  |  |
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|                                |                    |           |                  | -              |               |                      | <u> </u>   | Certificate Nu                | 11/1/8/0X      | AL BURY               | IIII                                     |  |  |



**TOPOGRAPHIC MAP** 



OFFSETTING OPERATOR MAP DAKOTA WELLS ONLY



CUMULATIVE DAKOTA GAS PRODUCTION MAP THRU 11/97

C.I.=500 mmcf



# dugan production corp.



August 7, 1998

Mr. Frank Chavez New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410



OIL COM. DIV.

Re: Application for Administrative Approval of Unorthodox Location Dugan Production Corp's. Huerfanito #5R 840' FSL & 2490' FWL (SE/4 SW/4)
Unit N, Section 10, T26N, R9W
San Juan County, New Mexico
Basin Dakota Pool

Dear Mr. Chavez:

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Very Sincerely,

Kurt H. Fagrelius

Kort Fegrelius

Geologist

|                             | <u> </u>  | <del></del>  | ,   |  |   |
|-----------------------------|---|--|---|--|---|
|                             |   |  |   |  | 744   |
|                             |   |  | ABOVE THIS LINE FOR DIVISION USE ONLY   |  |   |
|                             |   | NEW MEXIC  | CO OIL CONSERVAT  | ION DIVISION   |   |
|                             |   | ADMINISTRAT  | IVE APPLICATION   | N COVERSHEET   |   |
|                             | THIS CO   | OVERSHEET IS MANDATORY FOR ALL A   | DMINISTRATIVE APPLICATIONS FOR E  | CCEPTIONS TO DIVISION RULES AND  | REGULATIONS   |
| Applie                      | cation Acronyms   |  | l Proration Unit] [NSL-Nor  | -Standard Location)  |   |
|                             | Į.  | DD-Direction. Downhole Commingling] PC-Pool Commingling] [O WFX-Waterflood Exp   | al Drilling] [SD-Simultane<br>[CTB-Lease Commingling]<br>ILS - Off-Lease Storage] [9<br>ansion] [PMX-Pressure M<br>Disposal] [IPI-Injection P | ous Dedication] [PLC-Pool/Lease Comm<br>DLM-Off-Lease Measurem<br>sintenance Expansion]<br>ressure Increase] | ent]  |
| [1]                         | TYPE OF A   | APPLICATION - Check  | Those Which Apply for   | ΓΔΊ  |   |
| [+]                         | [A]   |  | nit - Directional Drilling  DD  DD  SD  | [A]  |   |
|                             | Chec  | k One Only for [B] or [C   |   |  |   |
|                             | [B]   | Commingling - Storag  DHC CTB  | ge - Measurement  | OLS OLM  |   |
|                             | [C]   | Injection - Disposal - I  WFX PMX  | Pressure Increase - Enhan   | nced Oil Recovery DEOR DPPR  |   |
| [2]                         | NOTIFICA?   | TION REQUIRED TO:  | - Check Those Which A   | annly or Does Not  | A nalv  |
| (-)                         | [A]   |  | or Overriding Royalty In  |  | чрріу   |
|                             | [B]   | Offset Operators, L  | easeholders or Surface C  | wner   |   |
|                             | [C]   | ☐ Application is One   | Which Requires Publishe   | ed Legal Notice  |   |
|                             | [D]   | Notification and/or U.S. Bureau of Land Mar  | Concurrent Approval by nagement - Commissioner of Public Li   | BLM or SLO<br>ands, State Land Office  |   |
|                             | [E]   | ☐ For all of the above,  | Proof of Notification or  | Publication is Attached  | d, and/or,  |
|                             | [F]   | ☐ Waivers are Attache  | d   |  |   |
| [3]                         | INFORMAT  | ION / DATA SUBMIT  | TED IS COMPLETE -   | Statement of Understa  | nding   |
| Regula<br>approvi<br>RI, OR | y certify that I,<br>tions of the Oi<br>al is accurate a<br>RI) is commor | or personnel under my solution. I Conservation Division. Indeed to the best on I further verify that all remation or notification is | supervision, have read ar<br>Further, I assert that the<br>of my knowledge and what applicable API Number                                     | nd complied with all ap<br>e attached application f<br>ere applicable, verify the<br>s are included. Lunder  | plicable Rules and<br>for administrative<br>hat all interest (WI, |
|                             |   | Note: Statement must   | t be completed by an individual with su   | pervisory capacity.  |   |
| Yurt<br>Print or 1          | Fagrelius<br>Type Name  | Kurt Fa  | agrolius (  | beologist  | <u>8 - 7 - 98</u><br>Date   |

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

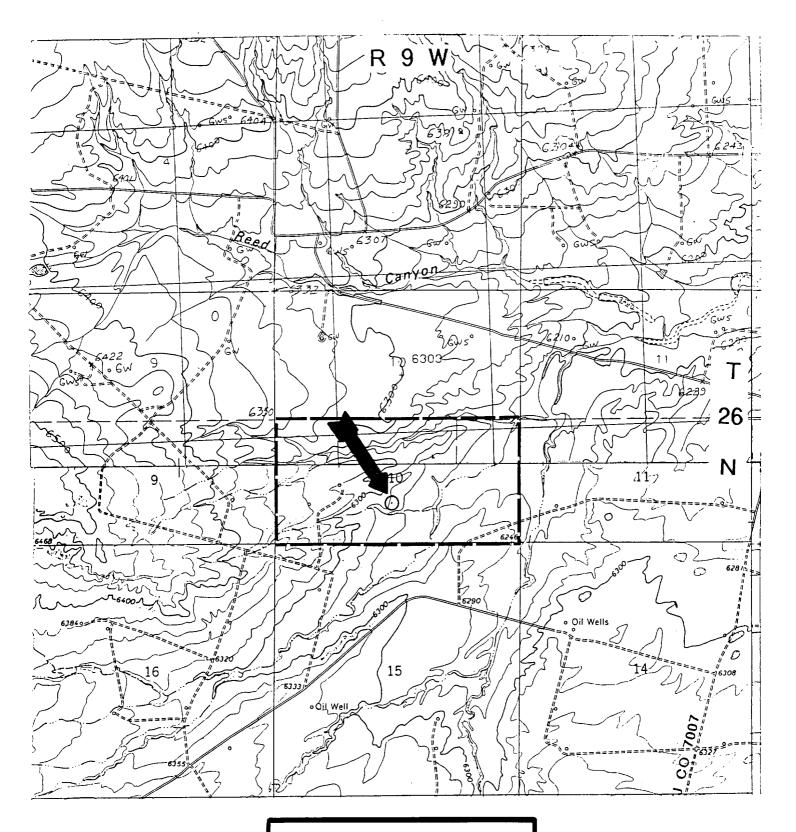
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

☐ AMENDED REPORT

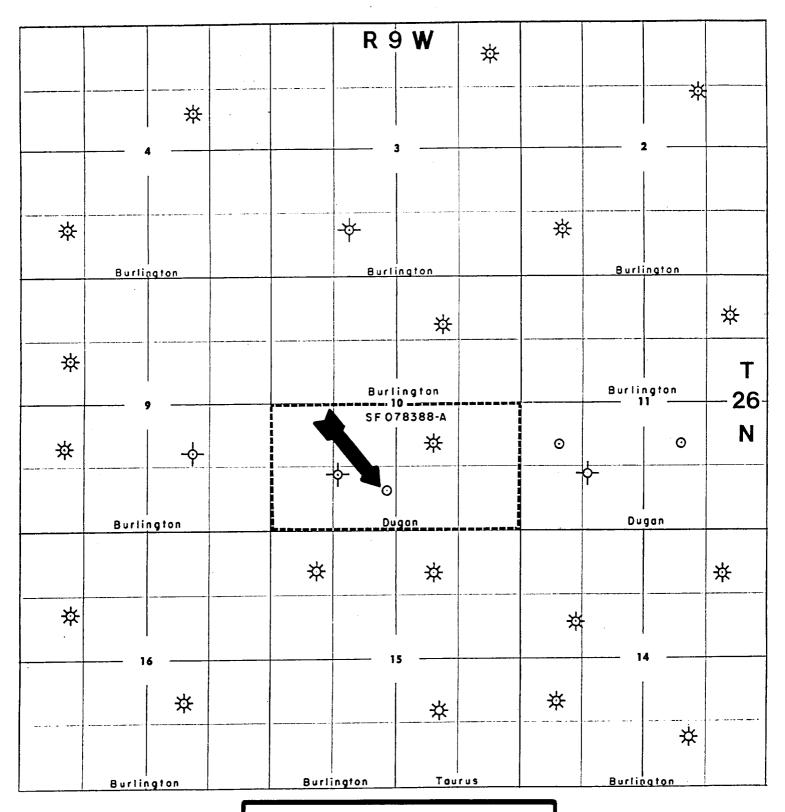
Fee Lease - 3 Copies

### WELL LOCATION AND ACREAGE DEDICATION PLAT

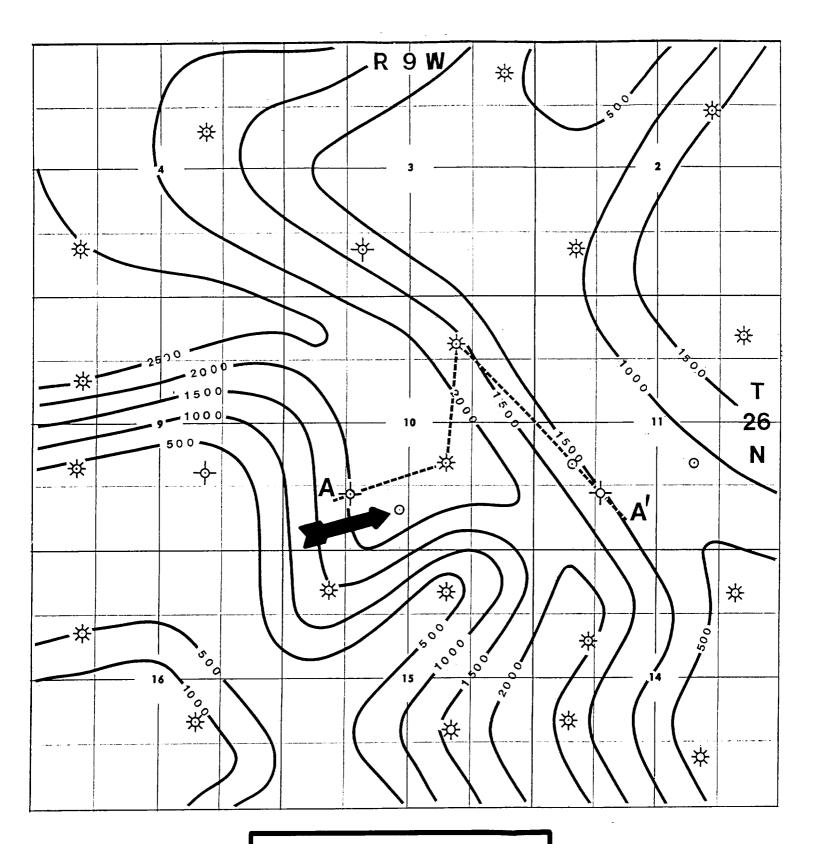
| API Number                     |                |  |               | * Pool Co.<br>7 15 99               | le  | 'Pool Name<br>Basin Dakota |  |   |                                |                        |  |  |
|--------------------------------|----------------|--|---------------|-------------------------------------|---|----------------------------|--|---|--------------------------------|------------------------|--|--|
| 4 Property                     | Code           | ······································ |               |                                     |   |                            |  |   |                                |                        |  |  |
|                                |                |  | Huerfan       | ito                                 | i rojeci  | y Manie                    |  |   |                                |                        | Well Number                            |  |
| 003709 Hue                     |                |  |               |                                     |   |                            |  |   |                                | 5R                     |  |  |
| 000515                         |                |  | _             | Operator Name                       |   |                            |  |   |                                | * Elevation            |  |  |
| 000313                         |                |  | Dugan P       | ugan Production Corporation 6275' H |   |                            |  |   |                                |                        |  |  |
| <sup>10</sup> Surface Location |                |  |               |                                     |   |                            |  |   |                                |                        |  |  |
| UL or lot no.                  | Section        | Township                               | Range         | Lot Idn                             | Feet from the                                       | North/South line           | Feet fr                                      | Feet from the   |                                | t line                 | County                                 |  |
|                                | 10             | 26N                                    | 9W            | N                                   | 840   | South                      | 2490   | כ   | West                           |                        | San Juan                               |  |
|                                |                |  | 11 Bott       | tom Hol                             | e Location  | If Different Fr            | om Su  | rface   |                                |                        |  |  |
| UL or lot no.                  | Section        | Township                               | Range         | Lot Idn                             | ot Idn Feet from the North/South line Feet from the |                            | nm the                                       | East/West line  |                                | County                 |  |  |
| 12 Dedicated Acre              | n (3 loint     | os Infili 14 6                         | Consolidation | Code 15 (                           | Drder No.   | <u> </u>                   | <u> </u>                                     |   | L                              |                        | <u> </u>                               |  |
| 320                            | Joint          |  |               | Code                                | ruer (vii.  |                            |  |   |                                |                        |  |  |
| NO ALLOW                       | ABLE \         |  |               |                                     |   | ION UNTIL ALL              |  |   |                                | N CO                   | NSOLIDATED                             |  |
| [,,                            |                |  |               |                                     |   |                            | 17   |   | <del></del>                    | CEDI                   | CICICATION                             |  |
| 16                             | Ī              |  |               |                                     |   | - 11                       | OFERATOR CERTIFICATION                       |   |                                |                        |  |  |
|                                |                |  |               |                                     |   |                            |  | I hereby certify that the information contained herein is<br>true and complete to the best of my knowledge and belief |                                |                        |  |  |
|                                | 1              |  |               | DECEIVED                            |   |                            |  |   |                                |                        |  |  |
|                                |                |  |               |                                     | SUGII   | a Giui                     |  |   | //                             |                        |  |  |
|                                | 1              |  |               | 1 1///                              | AUA -   | ע עו                       |  | \ /   |                                | 1                      |  |  |
|                                |                |  |               |                                     | AUG 7   | 1998                       |  | The   | umou                           | 1 51                   | and                                    |  |
|                                |                |  |               |                                     | l com.  | DIV                        |  | naturé  |                                |                        |  |  |
|                                | .              |  |               |                                     | LON.<br>DIST. S                                     | שטושו                      |  | herma   |                                | <u>rgan</u>            | <del>//</del>                          |  |
|                                |                |  |               |                                     | कालावा क  | •                          | 18   |   | residen                        | t //                   | /                                      |  |
| 1                              |                |  |               |                                     |   | Tid                        |  | y y racii   | <u> </u>                       |                        |  |  |
| 1                              |                |  |               |                                     | !   | J                          | une 18                                       | 8, 1998   |                                |                        |  |  |
|                                |                | Section                                | 10            |                                     |   | Dat                        | e  |   |                                |                        |  |  |
|                                |                |  |               |                                     |   |                            | 18   | SURV  | EYOR (                         | CERT                   | IFICATION                              |  |
|                                |                |  | Dugan         | Produ                               | ction   |                            | ; II   |   |                                |                        | shown on this plat                     |  |
|                                | İ              |  | SE            | 07838                               |   |                            |  |   |                                |                        | l surveys made by me                   |  |
| 1                              |                |  | 31            | 0,030                               | 0-A   |                            | , ,,   | _   | upervision, a<br>best of my be |                        | se same is true and                    |  |
|                                |                |  |               |                                     |   |                            |  |   |                                | -                      |  |  |
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**TOPOGRAPHIC MAP** 



OFFSETTING OPERATOR MAP DAKOTA WELLS ONLY



CUMULATIVE DAKOTA GAS PRODUCTION MAP THRU 11/97

C.I.=500 mmcf