

dugan production corp.

CERTIFIED
RETURN RECEIPT REQUESTED

November 16, 1988

Mr. William J. LeMay, Director New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088

RE: Administrative Approval 160 Acre Spacing Unit Western Federal #7 Well T26N, R11W Section 7: SW/4 San Juan County, NM



Gentlemen:

Dugan Production Corp., hereby requests administrative approval for a 160 acre non-standard spacing unit consisting of the SW/4 of Section 7, T26N, R11W, under the rules of Order No. R-8768.

By certified mail, return receipt requested, we have provided all operators or owners offsetting the subject non-standard spacing unit with a copy of this letter application. A copy of the offset operator or owner notice along with a list of names and addresses of all operators notified is attached for your information. Upon receiving the "return receipts", we will provide you with a copy for your records.

Should you have questions regarding our application, please feel free to contact me at the letterhead address.

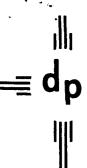
Respectfully,

Richard Corcoran

Landman

RC/dh

Enc.



dugan production corp.

CERTIFIED
RETURN RECEIPT REQUESTED

November 14, 1988

TO: Offsetting Operators or Owners

(See attached list)

RE: Application for Administrative Approval Non-Standard 160 Acre Spacing Unit Western Federal #7 Well

> T26N, R11W Section 7: SW/4 San Juan County, NM

Gentlemen:

Dugan Production Corp., (Dugan) is making application to the New Mexico Oil Conservation Division, (NMOCD) for administrative approval of a non-standard spacing unit, for the captioned well, consisting of the SW/4 of Section 7, T26N, R11W, to comply with the rules of Order No. R-8768.

Dugan completed the referenced well on August 31, 1977, in the South Gallegos Pool, spaced 160 acres. The well was drilled on USA lease Number SF - 075897 and communitized with USA lease SF - 078897A covering the SW/4 of said Section 7. Dugan was designated operator under Communitization Agreement SRM-1354 approved effective 7/1/77.

The NMOCD under case No. 9420, Order NO. R-8768, established the Basin-Fruitland Coal Gas Pool providing for 320 acre spacing for wells producing from Fruitland Coal seams, effective November 1, 1988.

As provided for in the rules of the above mentioned Order, we are giving notice to you as either the operator or owner (or Trustee) of the offsetting acreage, of our application.

We are enclosing a copy of our letter of application and location plat for your reference. Any operator or owner that objects to the administrative granting of the subject non-standard spacing unit should provide notice to the NMOCD within 20 days of our making application. We would also appreciate any such party to also notify Dugan. Offsetting Operators or Owners November 14, 1988 Page 2 of 2

Should you need additional information regarding our application, please feel free to contact me.

_Sincerely,

Richard Corcoran

Landman

RC/dh

Enc.

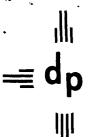
Navajo Tribal Council P.O. Box 2010 Window Rock, Arizona 86515 Attn: Akhtar Azaman, Director Navajo Tribal Minerals Dept.

Bureau of Land Management Farmington Resources and Tribal Leases 1235 La Plata Highway Farmington, NM 87499

Basin Fuels P.O. Box 50 Farmington, NM 87499

Simmons Engineering & Construction Co. 5704 Villa View Drive Farmington, NM 87401

T 26 N



dugan production corp.

December 1, 1988

Mr. William J. LeMay, Director New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, NM 87504-2088

RE: Application of Dugan Production Corp. for Administrative Approval of Non-Standard Spacing Unit dated November 16, 1988

Basin Fruitland Coal Gas Pool San Juan County, NM

Gentlemen:

Attached for your file is a copy of the U.S. Postal return receipts that were attached to our November 16, 1988 notice to all operators/owners offsetting the location proposed for the following wells in San Juan County, New Mexico:

Knauff #1 Well T28N, R10W, Section 31: NW/4
Western Federal #7 T26N, R11W, Section 7: SW/4
Petroleum Inc. Wells T28N, R15W, Sections 25, 26, 35, 36
Hana #1 Well T29N, R11W, Section 18: NE/4
Western Federal #9 T26N, R11W, Section 7: NW/4

Having received a receipt for each operator noticed, it is our belief that we have met the notice requirements of the special pool rules for the Basin Fruitland Coal Gas Pool.

Should you need additional information or have questions, please feel free to contact the undersigned.

Richard Corcoran Landman

RC/dh

Attach.

Western Federal #7 Well T26N, R11W Section 7: SW/4 San Juan County, NM

Offset Operators/Owners:

Navajo Tribal Council BLM - Tribal Leases Basin Fuels Simmons Engineering

| Put your address in the "RETURN TO" space on the card from being returned to you. The return receipt delivered to and the date of delivery. For additions postmester for fees and check box (es) for additions 1. Show to whom delivered, date, and addresses | t fee will provide you the name of the person fees the following services are available. Consult service(s) requested. | P 916 474 602 RECEIPT FOR CERTIFIED MAIL SO NO STORAGE COVERAGE PROVIDED NOT FOR WITHOUT WARE WARE |
|---|--|---|
| 3. Article Addressed to: | 4. Article Number P 916 474 602 | (See Reverse) |
| Basin Fuels P.O. Box 50 Farmington, NM 87499 | Type of Service: Registered Insured COD Express Meli | Sent to Bassin Fuels Pred and Box 50 Po State and ZIP Code |
| | Analys cortain eignature of addresses or apprit and ONE BELIVERED. | Farmington, NM 87499 |
| 5. Signeture — Addresses X | Michael FONLY If | Centhed Fee |
| 8. Signistrum - Agent X Army Deliver: 7. Deliver of Deliver: | | Special Delivery Fee Restricted Delivery Fee |
| Form 3811, Feb. 1986 | DOMESTIC RETURN RECEIPT | Return Receipt snowing to whom and Date Delivered |
| D | H COMMENT RELOTED NACCES | Aeturn Receipt showing to whom. Date and Address of Delivery |
| | | TOTAL Postage and Fees \$250 |
| | | Postmark or Date |
| | | 11/16/88 |

| SENDER: Complete items 1 and 2 when additional as Put your address in the "RETURN TO" space on the react from being returned to you. The return receipt fee with delivered to end the date of delivery. For additional fees postmaster for fees and check box (as) for additional services. 1. Show to whom delivered, date, and addresses's additional services. 3. Article Addressed to: | reside, reliure to do this will prevent this rill provide you the name of the person the following services are senioble. Consults |
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| Mr. William J. LeMay, Director | 4. Article Number P 916 474 603 |
| NM Oil Conservation Division | Type of Service: |
| . P.U. BOX 2088 | Registered Insured |
| Santa Fe, NM 87504-2088 | Express Meli |
| 5. Signeture - Addresse | Always obtain signature of addresses or agent and <u>DATE DELIVERED</u> . |
| X Chung Ming | 8. Addresse's Address (ONLY if requested and fee paid) |
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| 7. Date of Delivery | 1 |
| 11-18-88 |] |
| Form 3811, Feb. 1986 | DOMESTIC RETURN RECEIPT |

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| | | |
| Serito Mr. William J. NM Oil Conservation | LeMay, D Divisio | ir. n |
| P.O. Box 2088 | | |
| P.O. State and ZIP Code Santa Fe. NM 87504- | 2088 | |
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| Special Delivery Fee | | |
| Restricted Derivery Fee | | |
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| Return Receipt showing to Ahom Date, and Address of Delivery | | |
| *O*AL Postage and Fees | 230 | |
| Prstmark ar Cate | | |
| 11/16/88 | | i |
| | RECEIPT FOR CERTIFIE YO INSURANCE CONTRACT PROVIDED TO SUBJECT | Sent to Mr. William J.LeMay, D. NM Oil Conservation Division Street that No. P.O. Box 2088 P.O. Box 2088 P.O. Stafe and 2P Dade Santa Fe, NM 87504-2088 Postage Special Delivery Fee Restricted Delivery Fee Restricted Delivery Fee Return Recept showing to Ahom and Date Lind Address of Delivery TOTAL Postage and Fees Enstmer of Date Enstmer of Date |

| Put your address in the "RETURN TO" space on the rever- sard frum being returned to you. The <u>return receipt fee will definered to and the date of definery</u> . For additional fees to postmentar for tees and check box (se) for additional service. | I provide you the name of the person |
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| 1. Show to whom delivered, dete, and addressee's adds | ess. 2. 🗆 Restricted Delivery. |
| J. Article Addressed to: | 4. Article Number P 916 474 599 |
| Bureau of Land Management | Type of Service: |
| Farmington Resources & Tribal Leases | Registered Insured COD |
| 1235 La Plata Highway Farmington, NM 87499 | Always obtain signature of addresses or egent and <u>DATE DELIVERED</u> . |
| i. Signature — Addressee (| 8. Addresse's Address (ONLY if requested and fee paid) |
| . Signature (Agent | 1 . |
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| SENDER: Complete items 1 and 2 when additional se | vices are desired, and complete items 2 and 6 |
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| 3. Article Addressed to: Navajo Tribal Council P.O. Box 2010 | 4. Article Number P 916 474 600 |
| Window Rock, Arizona 865/5 Attn: Akhtar Azaman, Director | Type of Service: |
| Navajo Tribal Minerals De | Always obtain signature of addresses or agent and DATE DELIVERED. |
| 5. Signeture – Addressee | 8. Addressee's Address (ONLY if requested and fee paid) |
| 6. Signeture - Agent X | · |
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| 8 Form 3811, Feb. 1986 DH | DOMESTIC RETURN RECEIPT |

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| 1. Show to whom delivered, date, and addressee's address | s. 2. Restricted Delivery. | |
| 3. Article Addressed to: | 4. Article Number | |
| i | P 916 474 601 | |
| Simmons Engineering & Construction | 1 Type of Service: | |
| Company 5704 Villa View Drive Farmington, NM 87401 | Registered Insured COD Express Mail | |
| Parintington, Net 07401 | Always obtain signature of addressee or agent and DATE DELIVERED. | |
| 5. Signafture – Addressee | 8. Addresses's Address (ONLY if requested and for paid) | |
| 6. Signature - Agent | \ | |
| Aluth | 710 | |
| 7. Diseliar Delivery | 86. A | |
| 76 Form 3811, Feb. 1986. | DOMESTIC RETURN RECEIP | |

P 916 474 599

RECEIPT FOR CERTIFIED MAIL. NO INSURANCE COVERAGE PROJECT NOT FOR INTERNATIONAL MAIL.

| | (See Reverse) | | | | |
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| | Sent to Bureau of Land Managem Farmington Resources & Tri | e | | | |
| _ | Leases. 1235 La Plata Highway | | | | |
| • | PO State and ZIP Code Farmington, NM 87499 | | | | |
| | Postage | | | | |

| 2 | 1235 La Plata Highv | vay | | | |
|-------------------------|--|------------|--|--|--|
| est. | PO State and ZIP Code Farmington, NM 87499 | | | | |
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| PS Form 3800, June 1985 | 11/16/88 | | | | |
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P 916 474 600

RECEIPT FOR CERTIFIED MAIL NO INSURANCE COVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

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| ţ, | PO State and ZIP Code lindow Rock, AZ 8651 | 5 | | |
| 27 | Postage | ,25 | | |
| 5. | Certified Fee | .85 | | |
| 18 | Special Delivery Fee | | | |
| - V | Restricted Delivery Fee | | | |
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| e 198 | Return Receipt showing to whom Date, and Address of Delivery | | | |
| J. | TOTAL Postage and Fees | 200 | | |
| 3800 | Postmark or Date | | | |
| PS Form 3800, June 1985 | 11/16/88 | | | |
| PS | | | | |

P 916 474 601

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

| | See Reverse | | | | |
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| _ [| Sent to Simmons Engine & Construction Co. | ering | | | |
| | Street and No. 5704 Villa View Drive | | | | |
| Street and No 5704 Villa View Drive Po State and ZIP Code Farmington, NM 87401 Postage Certified Fee | | | | | |
| <u></u> | Postage / | \$ 25 | | | |
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| 3800. | Postmark or Date | | | | |
| ps Form 3800, June 1985 | 11/16/88 | _ | | | |

4-NMOCC (Aztec) 1-Atom, Inc. 1-Merrion & Bayless 1-File DISTRIBUTION NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE REQUEST FOR ALLOWABLE Superseder Old C-104 and C-110 Effective 1-1-65 FILE AND U.S.G.S. AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS LAND OFFICE OIL TRANSPORTER GAS DPERATOR PROBATION OFFICE Dugan Production Corp Box 234, Farmington, NM 87401 Other (Please explain) New Well sporter of: Recompleti Oil Dry Gas Change in Ownership If change of ownership give name and address of previous owner ____ II. DESCRIPTION OF WELL AND LEASE | Well No. Pool Name, Including Formation Western Federal 7 South Gallegos-Fruitland State, Federal or Fee Federal SF 078897 650 Feet From The South Line and 650 West 26N 11w San Juan III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

or Condensate [] | Address (Give address to which approved copy of this form is to be sent) Name of Authorized Transporter of Casinghead Gas or Dry Gas X El Paso Natural Gas Company Box 990, Farmington, NM 87401 If this production is commingled with that from any other lease or pool, give co IV. COMPLETION DATA Plug Back | Same Res'v. Diff. Res'v. Designate Type of Completion - (X) Date Spudded Date Compl. Ready to Pr 1450' 1385 8-31-77 Elevations (DF, RKB, RT, CR, etc.) Fruitland 6037' GR 1210' 1248' 1233-1238' & 1210-1214' TUBING, CASING, AND CEMENTING RECORD HOLE SIZE CASING & TUBING SIZE 5-1/2" SACKS CEMENT DEPTH SET 46 4-3/4" 1412' 2-7/8" 1248' 1-1/4" V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and able for this depth or be for full 24 hows) OIL WELL
Date First New Oil Run To Tanks Date of Test Producing Method (Flow, p 9 1977 -964 Length of Test Tubing Pressure Casing Freesure CON COM Oil-Bble. Actual Prod. During Test DIST. 3 GAS WELL Bble. Condensate/MMCF Gravity of Condensate 3 hrs 82 AOF Pressure (Shut-in) Casing Pressure (Shut-in) Testing Method (pitot, back pr.) One point back pressure 209 239 OIL CONSERVATION COMMISSION VI. CERTIFICATE OF COMPLIANCE APPROVED SEP 14 1977 I hereby certify that the rules and regulations of the Oil Conservation Commission have been compiled with and that the information given above is true and complete to the best of my knowledge and belief. endria ARZ. SUPERVISOR DIST. 43 This form is to be filed in compliance with RULE 1104. If this is a request for sllowable for a nawly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111. Jacobs Geologist

/Title

(Date)

9-8-77

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I. II. III, and VI for changes of owner, well name or number, or transporten or other such change of condition.



September 8, 1977

N. M. Oil Conservation Commission 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Dugan Production Corp.
Western Federal #7
650' FSL - 650' FWL
Section 7, T26N, R11W
San Juan County, New Mexico

TO WHOM IT MAY CONCERN:

This is to certify that deviation tests were run on the captioned well and the following is a true report of those tests:

3/4° @ 1400'

Sincerely,

Jim L. Jacobs

State of New Mexico)
County of San Juan)

Subscribed and sworn to before me this δ

SEP 14 1977 OIL CON. COM. DIST. 3

Sept.

19 77.

Novany Public

My commission expires November 5, 1978

File

EL PASO NATURAL GAS COMPANY POST OFFICE BOX 990 FARMINGTON, NEW MEXICO

| THIS IS TO NOTIFY | THE OIL CONSERVA | ATION COMMISSION THA | T. CONNECTION FOR PUR | CHASE OF |
|-------------------------|---------------------------------|----------------------------|------------------------------------|----------|
| GAS FROM <u>Dugan P</u> | roduction Company Operator | Western Fede | ra1 #7 Vell Name | ÷. |
| 90-169-01 | 24268 | М | 7-26-11 | |
| Meter Code | Site Code | Well Unit | S-T-R | |
| South Gallegos | Fruitland Pool | <u>El Paso Natu</u> Nan | ral Gas Company ne of Purchaser | |
| WAS MADE ON _Au AOF82 | gust 23, 1978 , Date | FIRST DELIVERY | August 23, 1978 Date | |
| CHOKE 80 | | | | |
| | | • Purchaser Represen | Kellenau | |
| cc: Operator | ington Commission — 2 aso | | | |

SEP 1978 OIL COM. COM.

| Form 9-330 | .ngton) l | -NMERD I- | Atom, Inc. | l-Merrion | « Bayre | ess l-File | |
|---------------------------------------|-------------------------|-----------------------|--|----------------------|---------------------------------------|---|--|
| (Rev. 5-63) | | UNITED | STATES | SUBMIT | IN DUPLICA | TE* Form | approved. et Bureau No. 42-R355.6. |
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| b. TYPE OF COMP | | | | | | | : |
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| 3. ADDRESS OF OPER | | | | | J. d. 10 | 10, FIELD AND PO | 7 |
| BOX 4. LOCATION OF WEL | | mington, N | | any State requirem | P G | | |
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| 7-25-77 | 7-29-7 | | 8-31-77 | | | ' GR | |
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| 1450' | | 1385 ' | | / | | → 0-TD | 25. WAS DIRECTIONAL |
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| Electric | | | | 7 | | - 7 - 3 | No |
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| 29. | | LINER RECOR | · | | | TUBING RECORD | |
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| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD | OIL-BBL. | GAS-MC | 1 | GAB-OIL BATTO |
| 8-31-77 | 3 | 1/2" | <u> </u> | | 82 7 | | 1" 1 |
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| 209 SI 34. DISPOSITION OF G. | 239 SI | r fuel mented co | , | 82 | AOF | TEST WITH SEST | COM. |
|) | | juce, venecu, etc | •, | | | TEST WITHERED | 3 |
| 35. LIST OF ATTACH | AENT8 | | | | | 1 / 01/ | 0/51. |
| ; | | | | | | | |
| 36. I hereby certify | that the forego | ing and attached | information is co | uplete and correct | as determine | d from all available recor | đB |
| | | | | | | | |
| () | المراز الم |) , | | Geolo | | | 9-8-77 |

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from the local Federal and/or State office. See instructions on items 22 and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), forms.

tion and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. be listed on this form, see item 35. All attachments

37

or Federal office for specific instructions.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 8: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Item 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| 216 | | Kuna | . SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY DEFITH INTERVAL TESTED, CUSHION USED, 7 | ** ** * |
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| <u> Brakti</u> | | | TAND CONTENTS THEREOF; | 500 5 5-70 |
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| 4-USGS (Farming | ton) l-Atom, Inc. | 1-Merrion & | Bayless l-File | | |
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| Form 9-331 (May 1803) | UNITED ST DEPARTMENT OF T | | SUBMIT IN TRIPLICATE (Other instructions on r | Form approved. Budget Bureau No. 42-R14 5. LEASE DESIGNATION AND SERIAL | <u>124.</u> |
| • | GEOLOGICAL | | | | •• |
| | | | | SF 078897 6. IF INDIAN, ALLOTTEE OR THIBE NAM | SI E |
| | DRY NOTICES AND | | | · 美華山縣 11.2 | |
| (Do not use this | form for proposals to drill or to Use "APPLICATION FOR PER | o deepen or plug back MIT—" for such propos | to a different reservoir. als.) | 그 경기를 가는 중심장 | |
| i. | | | | 7. UNIT AGREEMENT NAME | |
| OIL GAS | X OTHER | | سالسا ۱۱۰۰ سناد | The state of the s | |
| | OTHER | *" | | | |
| 2. NAME OF OPERATOR | | | | 8. FARM OR LEASE NAME | |
| | Production Corp. | <u></u> | | Western Federal | |
| 3. ADDRESS OF OPERATOR | | •, | crp 15 1911 | 9 WELL NO. | |
| Box 2 | 34, Farmington, NM | 87401 j | | 一 注意等7 至 言語 | |
| 4. LOCATION OF WELL (R See also space 17 belo | eport location clearly and in acc | ordance with any Stat | e requirements. TIC | 10. FIELD AND POOL, OR WILDCAT | |
| At surface | "" | 1 | 0.5.5 | South Gallegos-Fruit | tland |
| | 650' FSL - 650' | FWL | G- | 11. SEC., T., B., M., OR BLE. AND | |
| | | | | SURVEY OR AREA | |
| | | | | Sec. 7, T26N, R11W | |
| 14. PERMIT NO. | 15. ELEVATIONS | (Show whether DF, RT, | GR, etc.) | 12. COUNTY OR PARISH 13. STATE | |
| | | 6037' GR | • | San Juan NM | |
| | | 0037 GR | | 1 San Suan 1 NA | |
| 16. | Check Appropriate Box | To Indicate Natu | re of Notice, Report, or | Other Data ## 5 9 97 55 | |
| , | OTICE OF INTENTION TO: | 1 | | QUENT REPORT OF | |
| • | | <u> </u> | 50202 | | |
| TEST WATER SHUT-OF | PULL OR ALTER C | ASING | WATER SHUT-OFF | REPAIRING WELL | |
| FRACTURE TREAT | MULTIPLE COMPI. | ETE | FRACTURE TREATMENT | ALTERING CASING | |
| SHOOT OR ACIDIZE | ABANDON® | | SHOOTING OR ACIDIZING | ABANDONMENT. | |
| REPAIR WELL | CHANGE PLANS | | (Other) | Completion X | |
| (Other) | | | (Note: Report resulting or Recom | ts of multiple completion on Well pletion Report and Log form.) | |
| proposed work. If nent to this work.) | well is directionally drilled, give | e subsurface locations | and measured and true verti | s, including estimated date of starting a local depths for all markers and zones per construction of the c | uzikoci 🛱 |
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| 18. I hereby certify that | the foregoing is true and corre | et | | | |
| >/ | لم برا را مو | Ge | eologist | 9-7-77 | ٠ |
| SIGNED | L. Jacobs | TITLEG | | DATE | |
| (This space for Fede | ral or State office use) | | | | === |
| , apaca ava a tat | | | | | |
| APPROVED BY | | TITLE | | DATE | |
| CONDITIONS OF A | PROVAL, IF ANY: | | | | |

8-17-77

PBTD 1385'. Moved in Farmington Well Service swabbing unit. Blue Jet rigged up and ran gamma-ray correlation and collar log. Swabbed 2-7/8" csg down to 800'. Perf w/one 2-1/8" glass jet/ft 1233-1238' (5 holes). Swabbed csg down (no indication of gas or wtr entry). Acidized all perfs w/375 gals 15% HCl reg acid. Breakdown press 2000 psi, treated @ 1-1/2 BPM @ 1100 psi. Swabbed well (very slight show gas ahead of swab, no indication of wtr entry). Perf w/one 2-1/8" glass jet/ft 1210-1214' (4 holes). Swabbed csg down, no increase in gas or fluid entry. Treated all perfs w/375 gals 15% HCl reg acid followed by 8 bbls wtr, treated @ 750 psi @ 2 bbls/min. Dropped 7 ball sealers, no ball action. Swabbed well down, very slight increase in gas show ahead of swab, TSTM, no evidence of wtr entry.

8-19-77

Western Company and NOWSCO foam frac well using 70 quality foam. Used 15,000# 10-20 sand, 86.5 bbls wtr, 22 gals Adafoam, and 70,000 SCF nitrogen. Initial treating press 1500 psi, Max treating press 2400 psi, Avg treating press 1800 psi. Avg IR 4.5 BPM of fluid and 3500 SCF nitrogen/min. Flushed w/3000 SCF nitrogen. ISDP 1500 psi, 10-min standing press 1100 psi. Job complete 2:30 PM 8-19-77.

8-23-77

Moved in Farmington Well Service swabbing unit. Ran 39 jts 1-1/4" OD 2.3# J-55 IJ Buttress tbg. TE 1251.43' set @ 1248' GR. Nippled up wellhead and installed master valve. Well kicked off in 15 min making est 100 MCF. Blew well to atmosphere overnight. Rigged down Farmington Well Service.

(Aztec) 1-Atom, Inc. 1-Merrion & Bayless 1-EPNG (Bob Clark) 1-File
NEW MEXICO OIL CONSERVATION COMMSSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

| | | | | | | | | | | ٠ | | | | | | | | |
|---|--|--------------------------------------|-------------|-----------------------------|------------|-------------------------|------------------------------|----------------|---|-------------------------|--------------|--|---------------------|-------------|---------------|------------------------------------|----------|--|
| Тур | Type Test X Initial Annua | | | | | | Special 8-31-77 SFP 9 1977 | | | | | | 7 | | | | | |
| Соп | pany | | | | | | | | <u> </u> | 31-7 | 7 | | | | $-\downarrow$ | | | |
| | Dugan Production Corp. | | | | | P 1 2 1977 OIL CON. CON | | | | | | | | . COM | • [| | | |
| Pool | | | | | Formatio | Formation Unit DIST. 3 | | | | | | | | | | | | |
| South Gallegos Fruitland Fruitland ATK | | | | | | | | | M. S. | - Andrews of the second | | | | | | | | |
| Completion Date Total Depth | | | | | | 1 1 | | | | | | | Form o | r Lease Nan | ie | | | |
| | 8-23-77 1450' | | | | | | 1_ | 138 | · | | 60 | 37 ' (| GR | | | ern Federal | | |
| | . Size | Wi. ,d Set At Perforations: | | | | | | | Well No | o. 7 | | | | | | | | |
| Tbg | 2-7/8" . Sizo | WI. | ±π | d | Set | 1412' | ! | erloration | | | | | Unit Sec. Twp. Rge. | | | | | |
| | 1-1/4" | 2.3 | 3# | | | L2481 From | | | Open End To | | | | М | 7 : | 26N | 11W | | |
| Typ | e Well - Sinc | ile – Bra | denhead | - G.G. or G.C | . Mu | itiple | | | Packer S | et At | | | | County | | | | |
| | Single · | - Gas | | | | | | | | | | | | | Juan | | | |
| ĺ | ducing Thru | | Reser | voir Temp. *F | - } | Mean Annu | Annual Temp. *F Baro. Pres | | | - (| | | State | | | | | |
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| SI | | | | | | | | | 209 |) | <u> </u> | | 239 |) | | 7 da | ys | |
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| 3. | 1/2" | POS CI | loke | 3 | + | | - - | | | | | | 27 | | | 3 hr | <u>s</u> | |
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| 2. 3. | 5.43 | 15 | | | \dashv | 15 1. | | | .000 .9837 | | 7 | 1.000 | | | 80 | | | |
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| 1. | | - | | | | s | pecif | lic Gravit | y Separat | or Gas | ·—— | | | | xxx | xxxx | XX. | |
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| 3 39 1,521 61,480 AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2}\right]^n = \frac{82}{R_c^2 - R_w^2}$ | | | | | | | | | | | | | | | | | | |
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| Absolute Open Flow 82 McId € 15.025 Angle of Slope ⊕ Slope, n .85 | | | | | | | | | | | | | | | | | | |
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| Арр | Approved By Commission: Conducted By: Calculated By: Checked By: | | | | | | | | | | | | | | | | | |

Charles Hall

Charles Hall

| 5-USGS (Farmington) | 1-Atom, Inc. 1-Merric | on & Bayless l-File | |
|---|---|--|---|
| Form 9-331 (May 1965) | UNITED STATES | SUBMIT IN TRIPLICATES (Other instructions on re- | |
| DEPA | RTMENT OF THE INTE | RIOR verse side) | 5. LEASE DESIGNATION AND BERIAL NO. |
| | GEOLOGICAL SURVEY | | SF 078897 6. IF INDIAN, ALLOTTEE OR TRIBE NAME |
| | IOTICES AND REPORTS | | o. If Indian, Albert La OR TRIBE AND |
| (Do not use this form for) Use "AP | proposals to drill or to deepen or plu PLICATION FOR PERMIT—" for such | g back to a different reservoir. h propossis.) | · · · · · · · · · · · · · · · · · · · |
| 1. OIL 디 GAB 당 | | 11/1: | 7. UNIT AGREGMENT NAME |
| WELL WELL X OTH 2. NAME OF OPERATOR | ER | 7/110 4 | S. FABM OR LEASE NAME |
| | roduction Corp. | 1 196 10 13/7 | Western Federal |
| 3. ADDRESS OF OPERATOR | | | 9. WELL NO. |
| | , Farmington, NM 8740 | | FEET 7 1 FEET |
| LOCATION OF WELL (Report loca See also space 17 below.) At surface | tion clearly and in accordance with a | by State requirements. | South Gallegos |
| | 650' FSL - 650' FWL | | Fruitland - PC 11. SEC., T., B., M., OR BLE. AND |
| | | • | SURVEY OR AREA |
| | | | Sec 7, T26N, RllW |
| 14. PERMIT NO. | 15. ELEVATIONS (Show whether | 7 P GR | 12. COUNTY OR PARISH 13. STATE San Juan NM |
| 16. Chas | | | |
| Cirec | | Nature of Notice, Report, or C | មុខ្លួក 🕁 សុខិត្រ |
| NOTICE OF | INTENTION TO: | au Bazequ | |
| TEST WATER SHUT-OFF | PULL OR ALTER CASING MULTIPLE COMPLETE | WATER SHUT-OFF X | ALTERING CASING |
| SHOOT OR ACIDIZE | ABANDON* | SHOOTING OR ACIDIZING | ABANDONMENT* |
| REPAIR WELL | CHANGE PLANS | (Other) | |
| (Other) | | (Note: Report results Completion or Recomp | of multiple completion on Well: |
| 17. DESCRIBE PROPOSED OR CONFLET: proposed work. If well is conent to this work.) | DOPERATIONS (Clearly state all perticularies in perticularies and | nent details, and give pertinent dates, ocations and measured and true vertic | Including estimated date of starting any all depths for all markers and spread perilibration of the starting any and spread perilibration of the starting and spread perilibration of the |
| | | | 10 mm 1 m |
| 7-26-77 | Moved in and rigged v | p Morrow Drilling Comp | pany. Spudded 7-7/8" |
| | | 77. Drilled to 46'. | |
| | | 50' set @ 46' GR. Cem | mented w/6 sx. |
| • | Job complete @ 11:30 | AM /-25-//. | |
| 7-30-77 | TD 1450'. Drilled 4- | 3/4" hole w/native mud | 1 1230-1450' TD. |
| 7-31-77 | | 6.4# J-55 10R NEUE new | |
| | | good circ and recip pi | |
| | | l W//5 sx BJ 2% Lodense it cement with 1/4# Cel | with 1/4# Cello-flake |
| | | ils Mud-Sweep. Bumped | |
| , | | Shut well in. POB 12 | |
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| | | | 101 |
| | | | Je COM. |
| 4 | Λ | | An CON. 3 |
| 18. I hereby certify that the streg | olug is true and correct | | OIL DIS |
| SIGNEDThomas A. | Dugan/ | Petroleum Engineer | Darie 8-2-77 |
| (This space for Federal or Sta | | | 2 8 4 4 5 T \$ 1 T |
| APPROVED BY | TITLE | | DATE |
| CONDITIONS OF APPROVAL | , IF ANY: | | + |

NSL IR 216 27 1021 PECNICT *See Instructions On Reverse Side DHC Applica Fox

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

E.V.Echohawk LS

All distances must be from the outer boundaries of the Section. Operator 1.ease Well No. Dugan Production Corp. Western Federal 7 Unit Letter Section Township Range County 11 West San Juan 26 North Actual Footage Location of Well: West 65_σ . 650 feet from the South line Ground Level Elev. Producing Formation W.C. P.C. Pool Dedicated Acreage: South Gallegos Fruitland-Pictured Cliffs 6037 158.75 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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? Plan to communitize If answer is "yes," type of consolidation. X Yes 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 Dugan Production Corp. Thomas A. Dugan Western Federal Well No. 3 Position Petroleum Engineer 1980 FSL - 660 Feel Spuel: 6/25/57 Galloges Gallup Completion Dugan Production Corp. 6-29-77mmm SEC USA SF 07889 USA SF 078897 Mersion Dil & basilorp. Merrion Dugan Shown Conthit HANNER plocation field Western Well notes of actual surveys made by me or Bayless under my Nope 3602 on, and that the same 660'686 19801FW6 Refige and correct to the Dest of my 1101 0 8 MUL Sport: 1/23/-THERED LAND SURE OIL CON. COM. Gallegos Galler DIST. 3 Complete Date Surveyed June II, 1977 Registered Professional Engineer and/or Land Surveyor Certificate No. 3602

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OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

July 14, 1977

Dugan Production Corporation P. O. Box 234 Farmington, New Mexico 87401

Attention: Richard Tully

Administrative Order MSL-965

Gentlemen:

Reference is made to your application for approval of a non-standard location for your Western Federal Wall No. 7 located 650 feet from the South line and 650 feet from the West line of Section 7, Township 26 North, Range 11 West, HMPM, San Juan County, New Mexico.

By authority granted me under the provisions of Rule 104 F of the Commission Rules and Regulations, the above-described unorthodox location is hereby approved.

Very truly yours,

JOE D. RAMBY Secretary-Director

JDR/JEE/1r

cc: Oil Conservation Commission - Astec Oil & Gas Engineering Committee - Hobbs U.S. Geological Survey - Farmington