

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

| | | |
|---|--|--|
| SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) | | WELL API NO. 3003921661 |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other | | 5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator Hilcorp Energy Company | | 6. State Oil & Gas Lease No. Federal NMSF078835A |
| 3. Address of Operator 382 Road 3100, Aztec, NM 87410 | | 7. Lease Name or Unit Agreement Name SAN JUAN 28-7 UNIT |
| 4. Well Location Unit Letter H : 1550 feet from the North line and 1085 feet from the East line Section 06 Township 027N Range 007W NMPM County RIO ARRIBA | | 8. Well Number 236 |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6178' GL | | 9. OGRID Number 372171 |
| | | 10. Pool name or Wildcat Basin Mancos / Blanco Mesaverde |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|--|---|--|--|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | MULTIPLE COMPL <input type="checkbox"/> | CASING/CEMENT JOB <input type="checkbox"/> | |
| DOWNHOLE COMMINGLE <input checked="" type="checkbox"/> | | | |
| CLOSED-LOOP SYSTEM <input type="checkbox"/> | | | |
| OTHER: <input type="checkbox"/> RECOMPLETE | | OTHER: <input type="checkbox"/> | |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

It is intended to recomplete the subject well in the Basin Mancos (pool 97232) and the Blanco Mesaverde (pool 72319) and downhole commingle the existing Basin Dakota (pool 71599) with the Mancos and Mesaverde. The production will be commingled per Oil Conservation Division Order Number 12984-B. Allocation and methodology will be provided after the well is completed. Commingling will not reduce the value of the production. The Bureau of Land Management has been notified in writing of this application.

Proposed perforations are: MV 4200' - 5413'; MC 4200' - 5413'; DK 6950' - 7151'. **These perforations are in TVD.**

As referred to in Order # R-13681 interest owners were not re-notified.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Cherylene Weston TITLE Operations/Regulatory Technician Sr. DATE 02/19/2024

Type or print name Cherylene Weston E-mail address: cweston@hilcorp.com PHONE: 713-289-2615
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____

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Form C-102
August 1, 2011
Permit 357272

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|-------------------------------|--|---|
| 1. API Number 30-039-21661 | 2. Pool Code 72319 | 3. Pool Name BLANCO-MESAVERDE (PRORATED GAS) |
| 4. Property Code 318432 | 5. Property Name SAN JUAN 28 7 UNIT | 6. Well No. 236 |
| 7. OGRID No. 372171 | 8. Operator Name HILCORP ENERGY COMPANY | 9. Elevation 6178 |

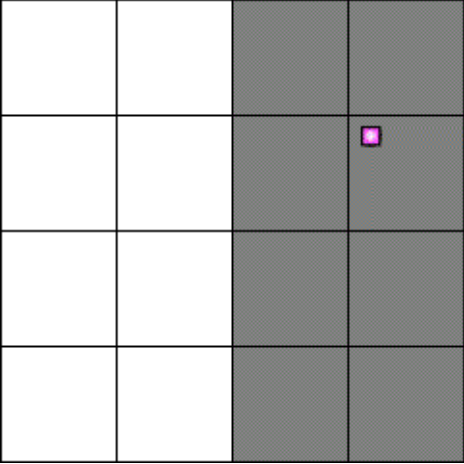
10. Surface Location

| | | | | | | | | | |
|---------------|--------------|-----------------|--------------|---------|-------------------|---------------|-------------------|---------------|-------------------------|
| UL - Lot H | Section 6 | Township 27N | Range 07W | Lot Idn | Feet From 1550 | N/S Line N | Feet From 1085 | E/W Line E | County RIO ARRIBA |
|---------------|--------------|-----------------|--------------|---------|-------------------|---------------|-------------------|---------------|-------------------------|

11. Bottom Hole Location If Different From Surface

| | | | | | | | | | |
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| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| 12. Dedicated Acres 320.60 | 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>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: Cherylene Weston Title: Operations/Regulatory Tech-Sr. Date: 1/09/2024</p> <p>SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Surveyed By: David Kilven Date of Survey: 8/15/1974 Certificate Number: 1760</p> |
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Form C-102
August 1, 2011
Permit 357272

WELL LOCATION AND ACREAGE DEDICATION PLAT

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| 1. API Number 30-039-21661 | 2. Pool Code 97232 | 3. Pool Name BASIN MANCOS |
| 4. Property Code 318432 | 5. Property Name SAN JUAN 28 7 UNIT | 6. Well No. 236 |
| 7. OGRID No. 372171 | 8. Operator Name HILCORP ENERGY COMPANY | 9. Elevation 6178 |

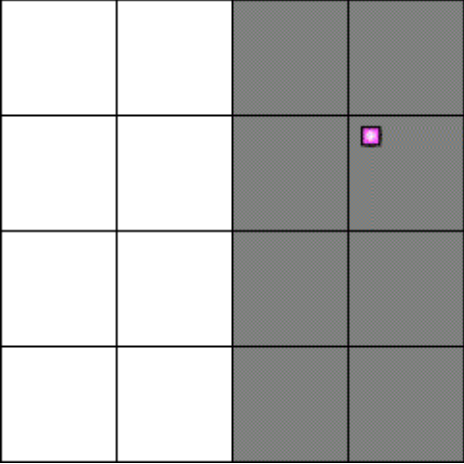
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|--|---|

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-120
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

| | | | | | |
|--|--------------------------------------|-------------------------|--|---|------------------------|
| Operator EL PASO NATURAL GAS COMPANY | | | Lease SAN JUAN 28-7 UNIT (SF-078835-A) | | Well No. 236 |
| Unit Letter H | Section 6 | Township 27-N | Range 7-W | County RIO ARriba | |
| Actual Footage Location of Well: 1550 feet from the NORTH line and 1085 feet from the EAST line | | | | | |
| Ground Level Elev. 6178 | Producing Formation DAKOTA | | Pool BASIN DAKOTA | Dedicated Acreage: 320.60 Acres | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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?

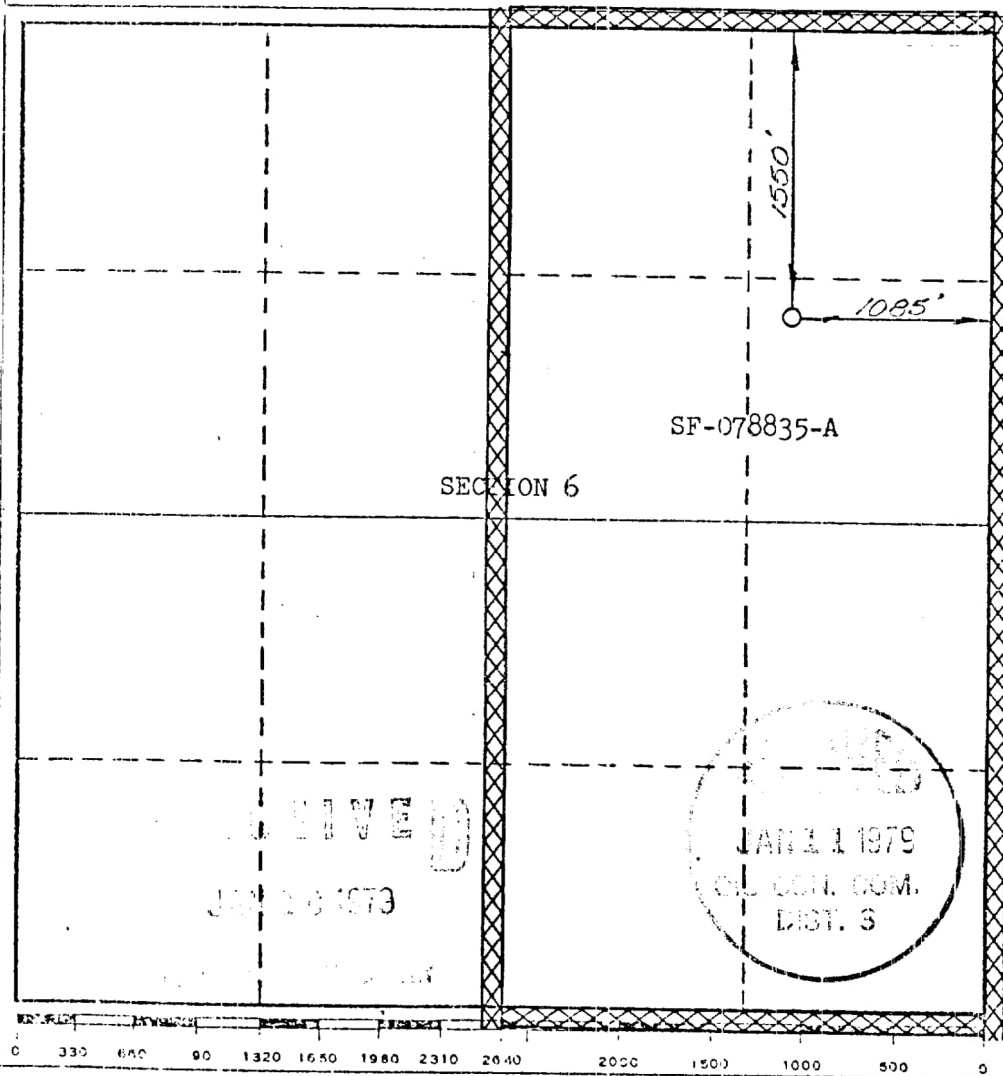
☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

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.

NOTE: THIS PLAT IS REISSUED TO SHOW CORRECTED ELEVATION.

12-28-78



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

A. J. Suico

Name: **Drilling Clerk**

Position: **El Paso Natural Gas Co.**

Date: **January 5, 1979**

Date

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 knowledge and belief.

Date Surveyed
AUGUST 15, 1974

Registered Professional Engineer and/or Land Surveyor

David W. Wilson

Certificate No. **1760**

San Juan 28-7 Unit 236 Allocation

The forecasts for Mancos and Mesaverde production have been generated using type curves of production in the surrounding trend.

These zones are proposed to be commingled because the application of dual completions impedes the ability to produce the shallow zone without artificial lift and the deeper zones with reduced artificial lift efficiency. All horizons will require artificial lift due to low bottomhole pressure (BHP) and permeability.

The BHPs of all zones, producing and non-producing, were estimated based upon basin wide Moving-Domain Material Balance models that have proven to approximate the pressure in the given reservoirs well in this portion of the basin, in conjunction with shut-in pressure build-ups. These models were constructed incorporating reservoir dynamics and physics, historic production, and observed pressure data. Historic commingling operations have proven reservoir fluids are compatible.

Production Allocation Method – Subtraction

Gas Allocation:

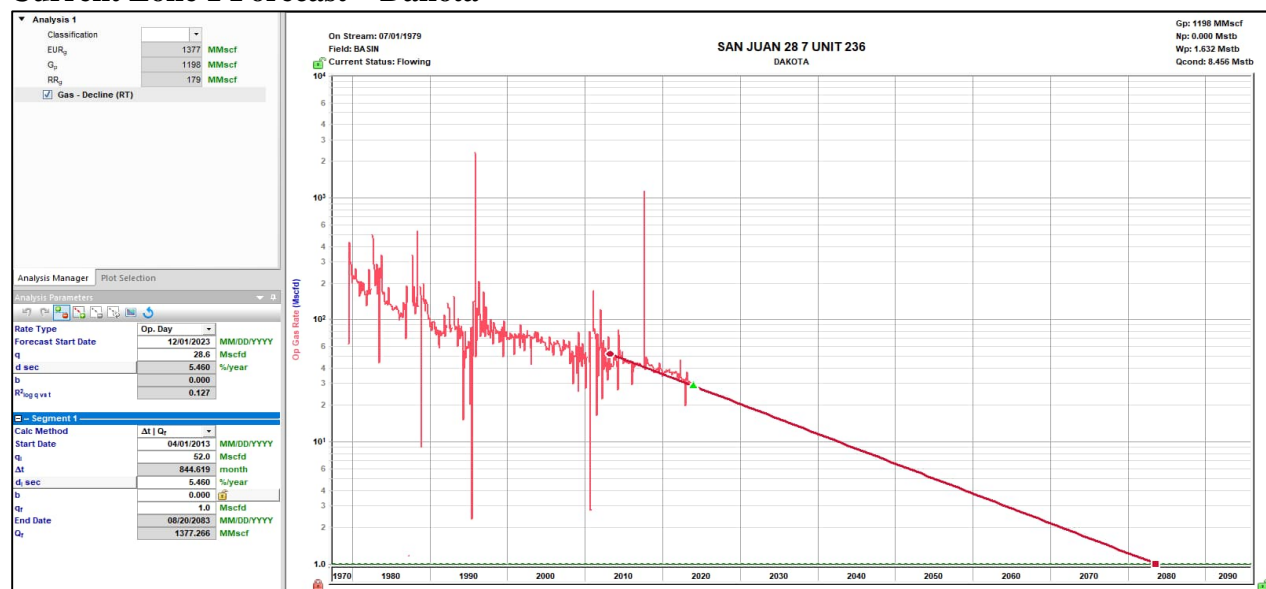
Production for the downhole commingle will be allocated using the subtraction method in agreement with local agencies. The base formation is the Dakota and the added formations to be commingled are the Mancos and Mesaverde. The subtraction method applies an average monthly production forecast to the base formation using historic production. All production from this well exceeding the base formation forecasts will be allocated to the new formations.

New zones will be allocated using a fixed allocation. Forecasted rates for Mancos and Mesaverde are based on offsets type curve. The maps show the standalone offsets that were used for type-curves. The split between MC/MV is based on the ratio of forecasted reserves as shown in the table below.

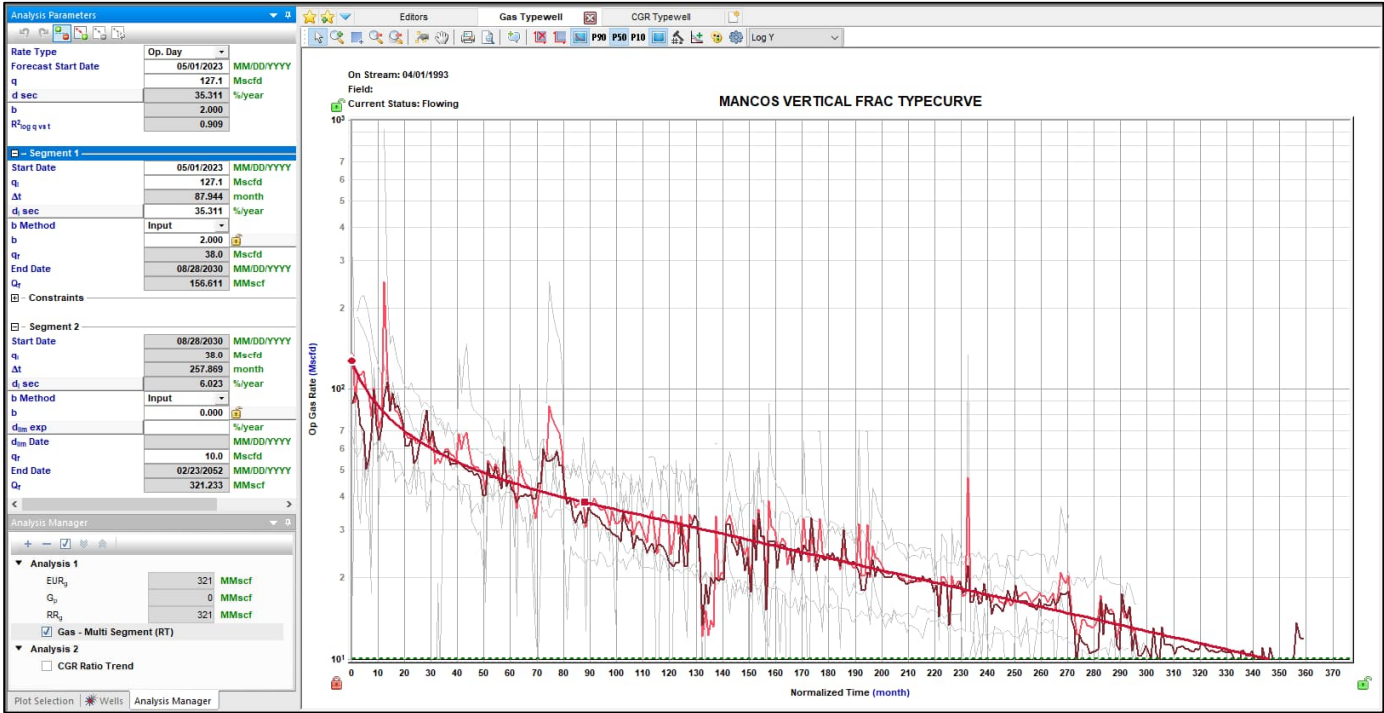
| Formation | Remaining Reserves (MMcf) | % Gas Allocation |
|-----------|---------------------------|------------------|
| Mancos | 321 | 35% |
| Mesaverde | 607 | 65% |

After 3 years production will stabilize. A production average will be gathered during the 4th year and will be utilized to create a fixed percentage-based allocation.

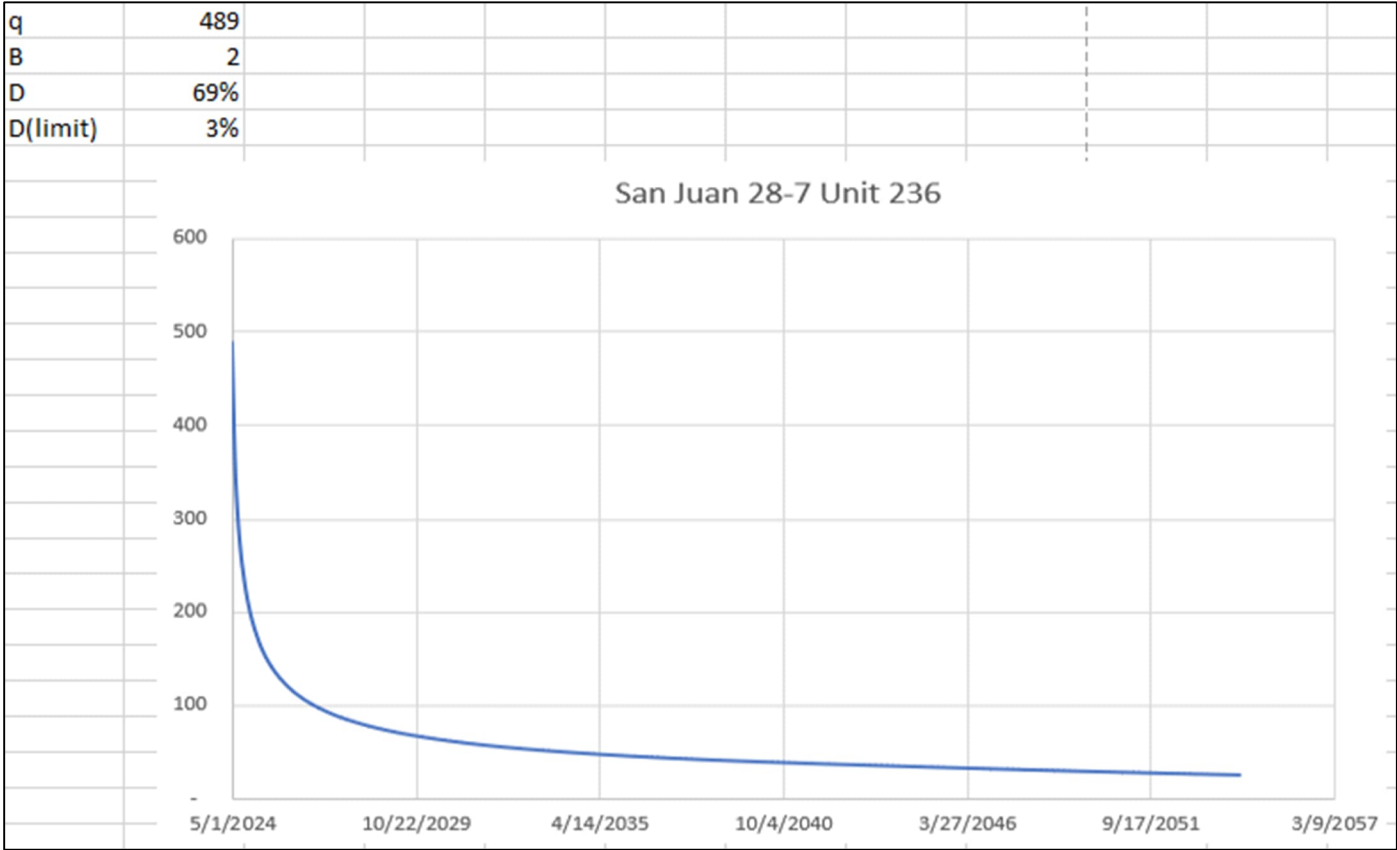
Current Zone 1 Forecast – Dakota



Proposed Zone 1 Forecast - Mancos



Proposed Zone 2 Forecast - Mesaverde

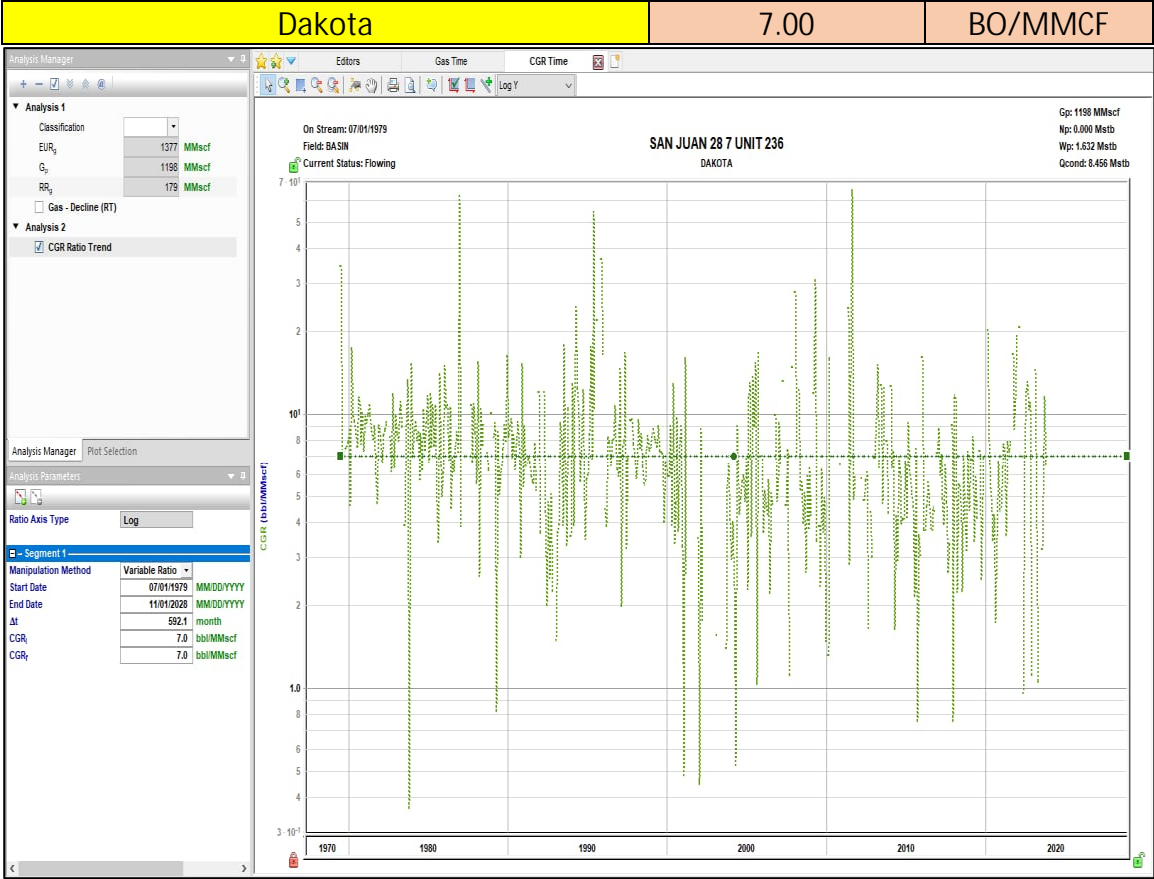


Oil Allocation:

Oil production will be allocated based on average formation yields from offset wells and will be a fixed rate for 4 years. After 4 years oil will be reevaluated and adjusted as needed based on average formation yields and new fixed gas allocation.

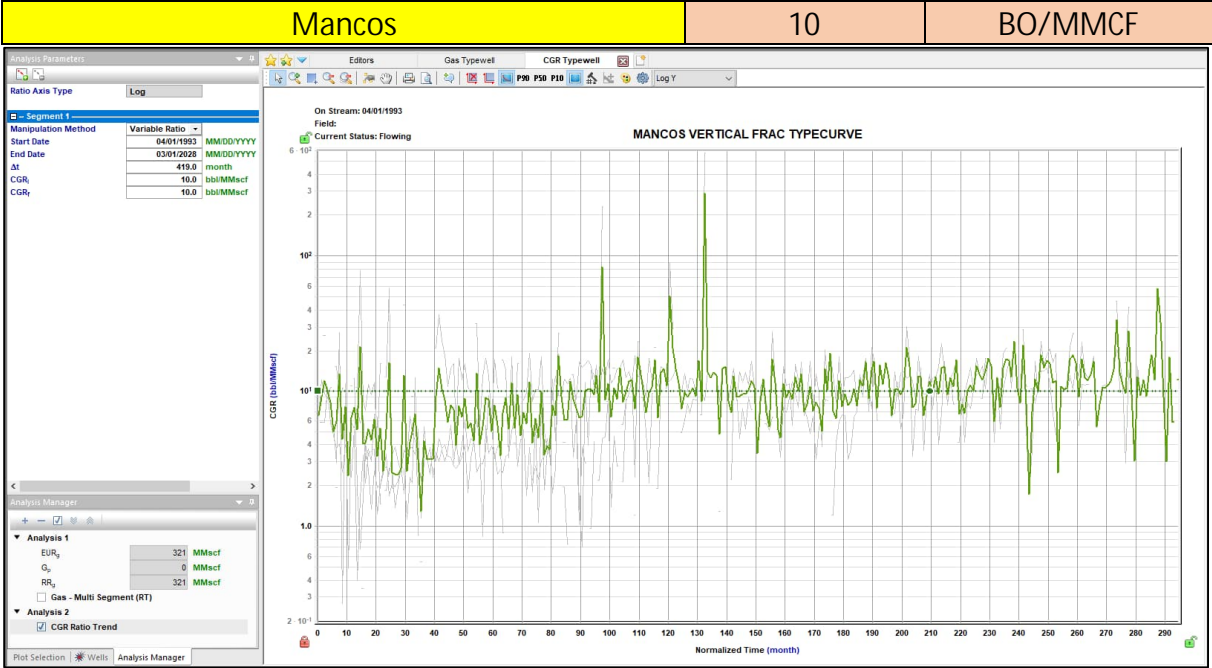
| Formation | Yield (bbl/MM) | Remaining Reserves (MMcf) | % Oil Allocation |
|-----------|----------------|---------------------------|------------------|
| DK | 7.00 | 179 | 13% |
| MC | 10.00 | 321 | 33% |
| MV | 8.62 | 607 | 54% |

Current Zone – Dakota Oil Yield Map

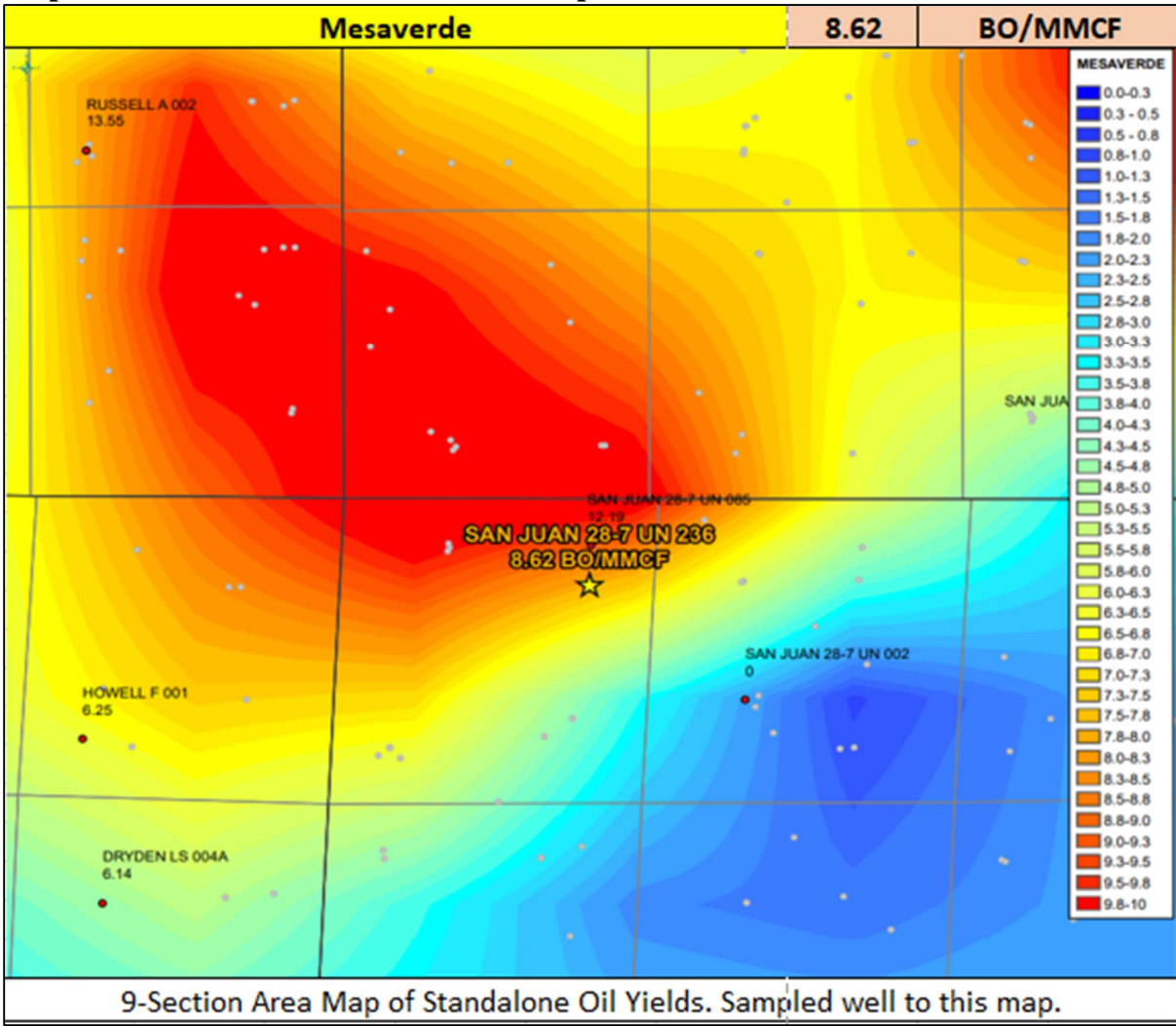


9-Section Area of Standalone Oil Yields. Sampled well to this map.

Proposed Zone 1 – Mancos Oil Yield



Proposed Zone 2 - Mesaverde Oil Yield Map



From: [McClure, Dean, EMNRD](#) on behalf of [Engineer, OCD, EMNRD](#)
To: [Cheryl Weston](#); [Mandi Walker](#)
Cc: [McClure, Dean, EMNRD](#); [Lowe, Leonard, EMNRD](#); [Rikala, Ward, EMNRD](#); [Wrinkle, Justin, EMNRD](#); [Powell, Brandon, EMNRD](#); [Paradis, Kyle O](#); dmankiew@blm.gov
Subject: Approved Administrative Order DHC-5367
Date: Wednesday, May 22, 2024 3:49:27 PM
Attachments: [DHC5367 Order.pdf](#)

NMOCD has issued Administrative Order DHC-5367 which authorizes Hilcorp Energy Company (372171) to downhole commingle production within the following well:

Well Name: **San Juan 28 7 Unit #236**

Well API: **30-039-21661**

The administrative order is attached to this email and can also be found online at OCD Imaging.

Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211

From: [Cheryl Weston](#)
To: [McClure, Dean, EMNRD](#); [Mandi Walker](#)
Cc: [Roberts, Kelly, EMNRD](#)
Subject: RE: [EXTERNAL] Action ID: 322690; DHC-5367
Date: Monday, April 29, 2024 8:58:09 AM
Attachments: [SJ 28-7 Unit 236 DHC C-103.pdf](#)

Dean,

Please see attached DHC C-103 with the corrected Mancos perf range.

Thanks,
Cheryl

From: McClure, Dean, EMNRD <Dean.McClure@emnrd.nm.gov>
Sent: Friday, April 26, 2024 5:23 PM
To: Cheryl Weston <cweston@hilcorp.com>; Mandi Walker <mwalker@hilcorp.com>
Cc: Roberts, Kelly, EMNRD <Kelly.Roberts@emnrd.nm.gov>
Subject: [EXTERNAL] Action ID: 322690; DHC-5367

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

To whom it may concern (c/o Cheryl Weston for Hilcorp Energy Company),

The Division is reviewing the following application:

| | |
|------------------|---------------------------------|
| Action ID | 322690 |
| Admin No. | DHC-5367 |
| Applicant | Hilcorp Energy Company (372171) |
| Title | San Juan 28 7 Unit #236 |
| Sub. Date | 3/12/2024 |

Please provide the following additional supplemental documents:

-

Please provide additional information regarding the following:

- Please provide an amended form C-103 with the MC perforations corrected.

Additional notes:

-

All additional supplemental documents and information may be provided via email and should be done by replying to this email. The produced email chain will be uploaded to the file for this application.

Please note that failure to take steps to address each of the requests made in this email within 10 business days of receipt of this email may result in the Division rejecting the application requiring the submittal of a new application by the applicant once it is prepared to address each of the topics raised.

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211

The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

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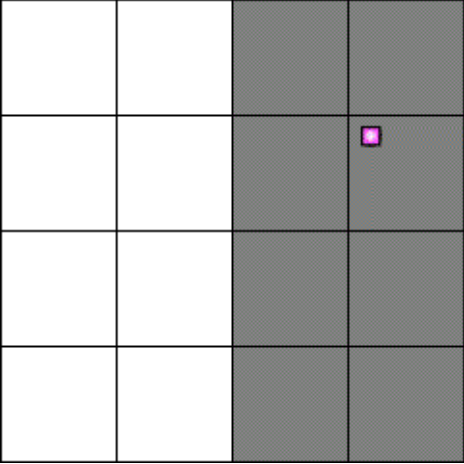
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| | |
|--|---|
|  | <p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: Cherylene Weston Title: Operations/Regulatory Tech-Sr. Date: 1/09/2024</p> <p>SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Surveyed By: David Kilven Date of Survey: 8/15/1974 Certificate Number: 1760</p> |
|--|---|

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural
Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
August 1, 2011
Permit 357272

WELL LOCATION AND ACREAGE DEDICATION PLAT

| | | |
|-------------------------------|--|------------------------------|
| 1. API Number 30-039-21661 | 2. Pool Code 97232 | 3. Pool Name BASIN MANCOS |
| 4. Property Code 318432 | 5. Property Name SAN JUAN 28 7 UNIT | 6. Well No. 236 |
| 7. OGRID No. 372171 | 8. Operator Name HILCORP ENERGY COMPANY | 9. Elevation 6178 |

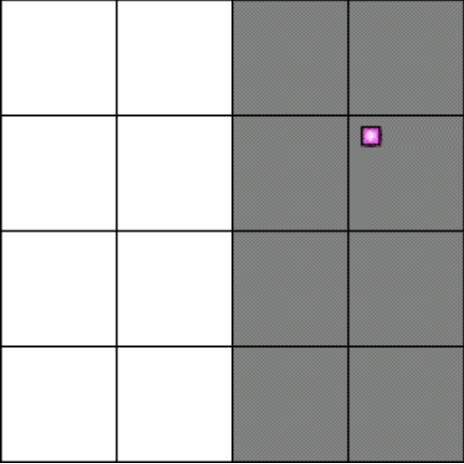
10. Surface Location

| | | | | | | | | | |
|---------------|--------------|-----------------|--------------|---------|-------------------|---------------|-------------------|---------------|-------------------------|
| UL - Lot H | Section 6 | Township 27N | Range 07W | Lot Idn | Feet From 1550 | N/S Line N | Feet From 1085 | E/W Line E | County RIO ARRIBA |
|---------------|--------------|-----------------|--------------|---------|-------------------|---------------|-------------------|---------------|-------------------------|

11. Bottom Hole Location If Different From Surface

| | | | | | | | | | |
|-------------------------------|---------------------|----------|-------|------------------------|-----------|----------|---------------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| 12. Dedicated Acres 320.60 | 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>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>E-Signed By: Cherylene Weston Title: Operations/Regulatory Tech-Sr. Date: 1/09/2024</p> <p>SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Surveyed By: David Kilven Date of Survey: 8/15/1974 Certificate Number: 1760</p> |
|--|---|

WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-120
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

| | | | | | |
|--|--------------------------------------|-------------------------|--|---|------------------------|
| Operator EL PASO NATURAL GAS COMPANY | | | Lease SAN JUAN 28-7 UNIT (SF-078835-A) | | Well No. 236 |
| Unit Letter H | Section 6 | Township 27-N | Range 7-W | County RIO ARriba | |
| Actual Footage Location of Well: 1550 feet from the NORTH line and 1085 feet from the EAST line | | | | | |
| Ground Level Elev. 6178 | Producing Formation DAKOTA | | Pool BASIN DAKOTA | Dedicated Acreage: 320.60 Acres | |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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?

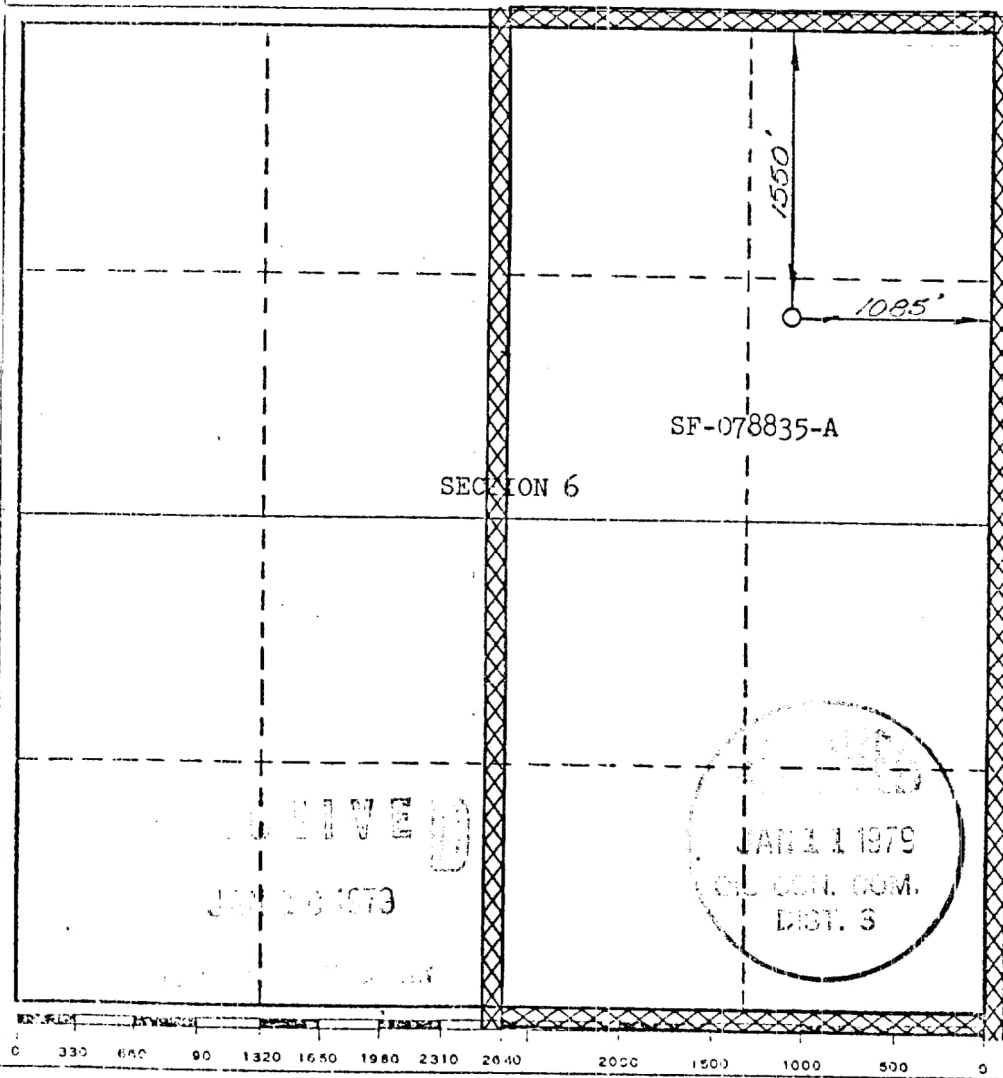
☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

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.

NOTE: THIS PLAT IS REISSUED TO SHOW CORRECTED ELEVATION.

12-28-78



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

A. J. Suico

Name: **Drilling Clerk**

Position: **El Paso Natural Gas Co.**

Date: **January 5, 1979**

Date

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 knowledge and belief.

Date Surveyed
AUGUST 15, 1974

Registered Professional Engineer
and/or Land Surveyor

David W. Wilson
Certificate No. **1760**

San Juan 28-7 Unit 236 Allocation

The forecasts for Mancos and Mesaverde production have been generated using type curves of production in the surrounding trend.

These zones are proposed to be commingled because the application of dual completions impedes the ability to produce the shallow zone without artificial lift and the deeper zones with reduced artificial lift efficiency. All horizons will require artificial lift due to low bottomhole pressure (BHP) and permeability.

The BHPs of all zones, producing and non-producing, were estimated based upon basin wide Moving-Domain Material Balance models that have proven to approximate the pressure in the given reservoirs well in this portion of the basin, in conjunction with shut-in pressure build-ups. These models were constructed incorporating reservoir dynamics and physics, historic production, and observed pressure data. Historic commingling operations have proven reservoir fluids are compatible.

Production Allocation Method – Subtraction

Gas Allocation:

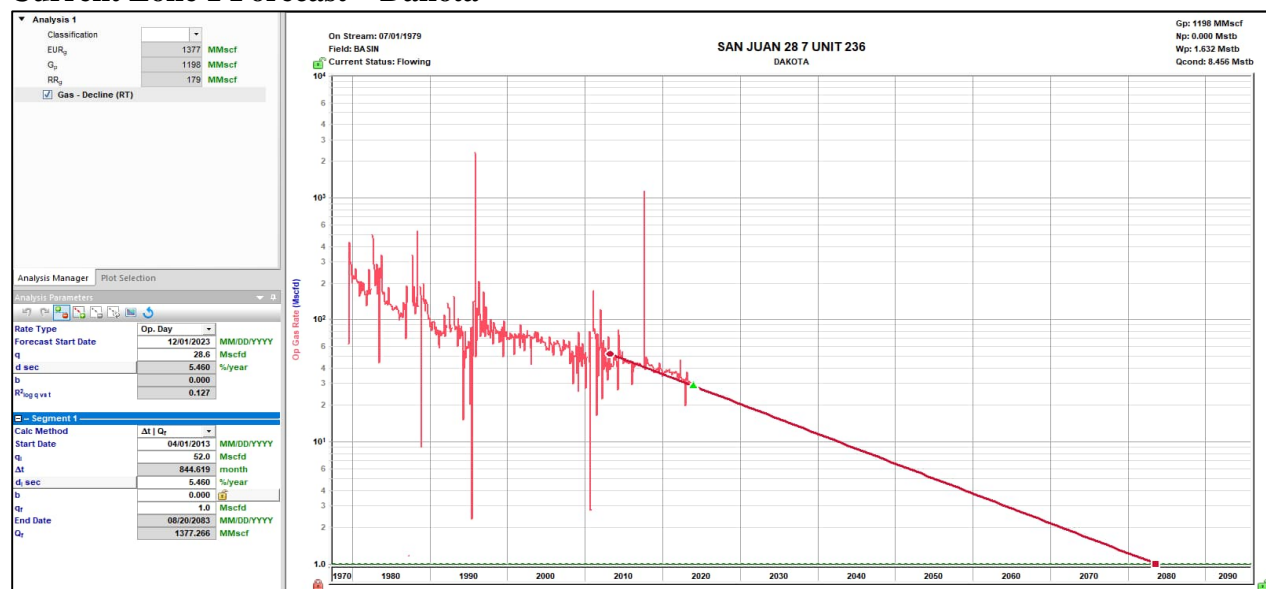
Production for the downhole commingle will be allocated using the subtraction method in agreement with local agencies. The base formation is the Dakota and the added formations to be commingled are the Mancos and Mesaverde. The subtraction method applies an average monthly production forecast to the base formation using historic production. All production from this well exceeding the base formation forecasts will be allocated to the new formations.

New zones will be allocated using a fixed allocation. Forecasted rates for Mancos and Mesaverde are based on offsets type curve. The maps show the standalone offsets that were used for type-curves. The split between MC/MV is based on the ratio of forecasted reserves as shown in the table below.

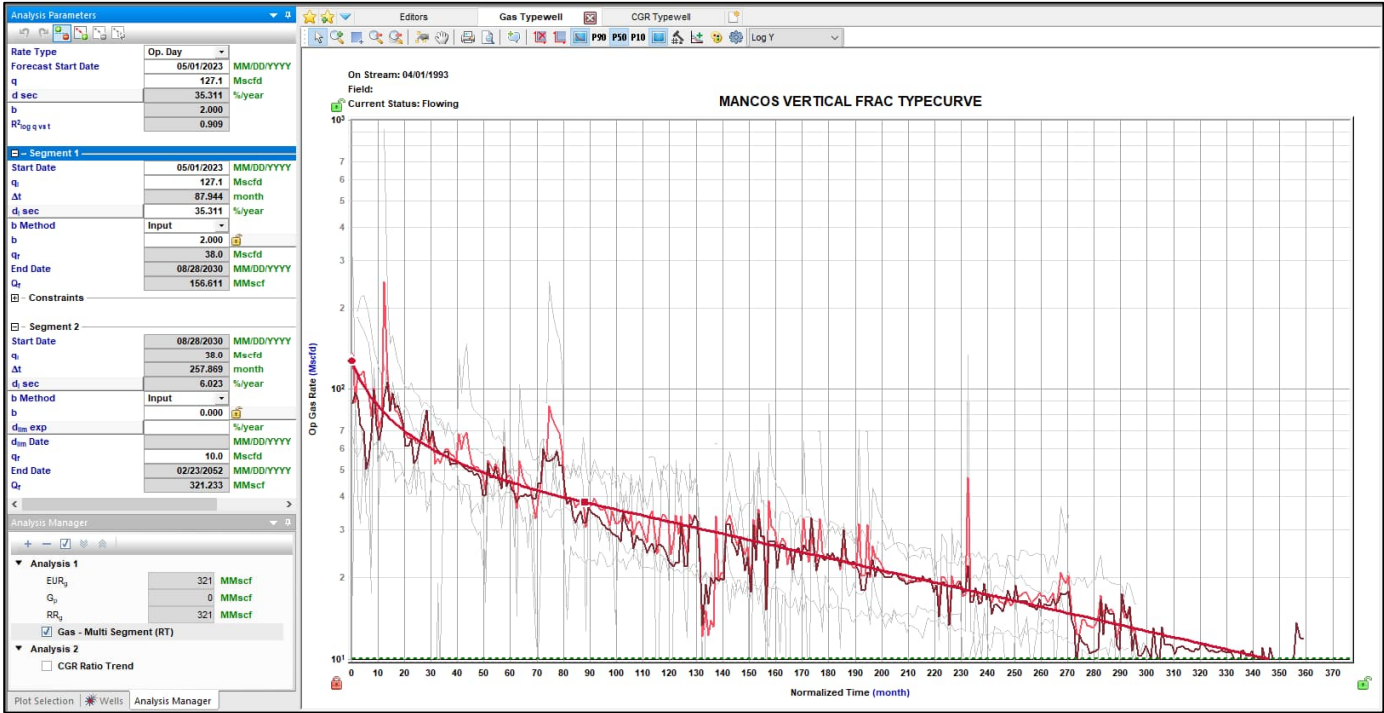
| Formation | Remaining Reserves (MMcf) | % Gas Allocation |
|-----------|---------------------------|------------------|
| Mancos | 321 | 35% |
| Mesaverde | 607 | 65% |

After 3 years production will stabilize. A production average will be gathered during the 4th year and will be utilized to create a fixed percentage-based allocation.

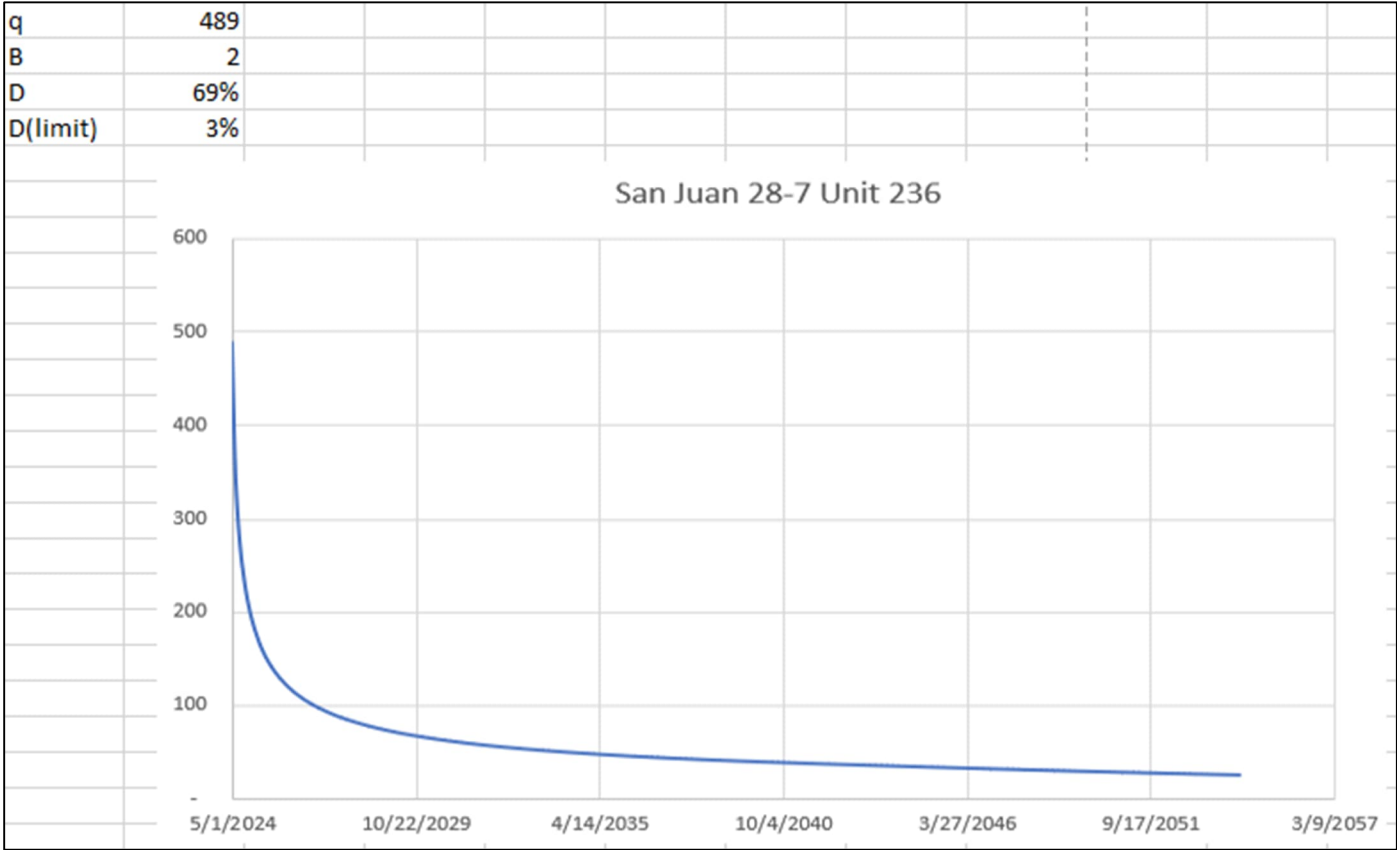
Current Zone 1 Forecast – Dakota



Proposed Zone 1 Forecast - Mancos



Proposed Zone 2 Forecast - Mesaverde

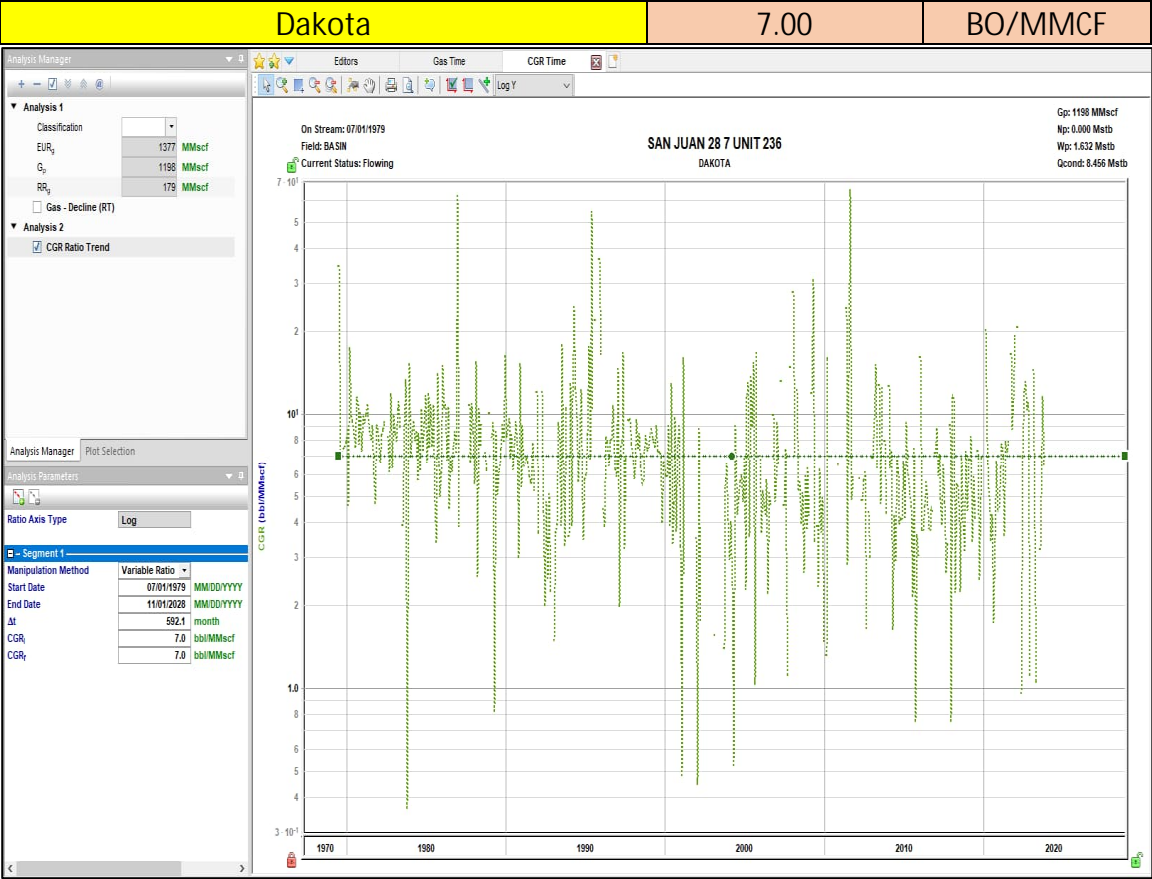


Oil Allocation:

Oil production will be allocated based on average formation yields from offset wells and will be a fixed rate for 4 years. After 4 years oil will be reevaluated and adjusted as needed based on average formation yields and new fixed gas allocation.

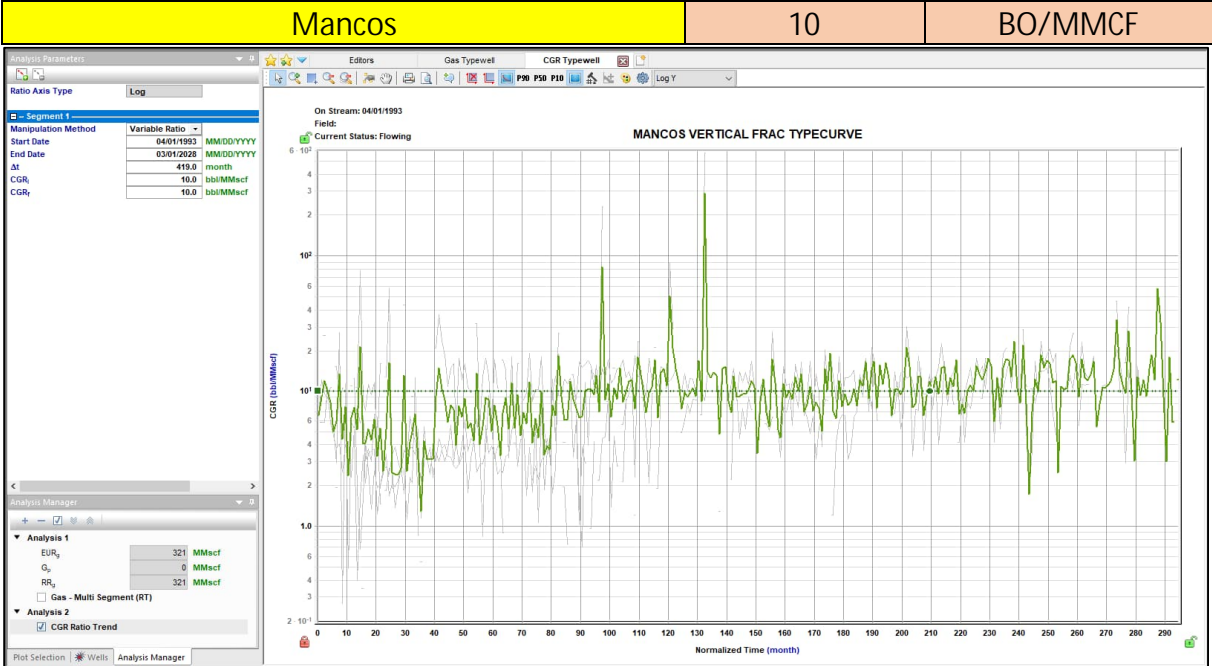
| Formation | Yield (bbl/MM) | Remaining Reserves (MMcf) | % Oil Allocation |
|-----------|----------------|---------------------------|------------------|
| DK | 7.00 | 179 | 13% |
| MC | 10.00 | 321 | 33% |
| MV | 8.62 | 607 | 54% |

Current Zone – Dakota Oil Yield Map



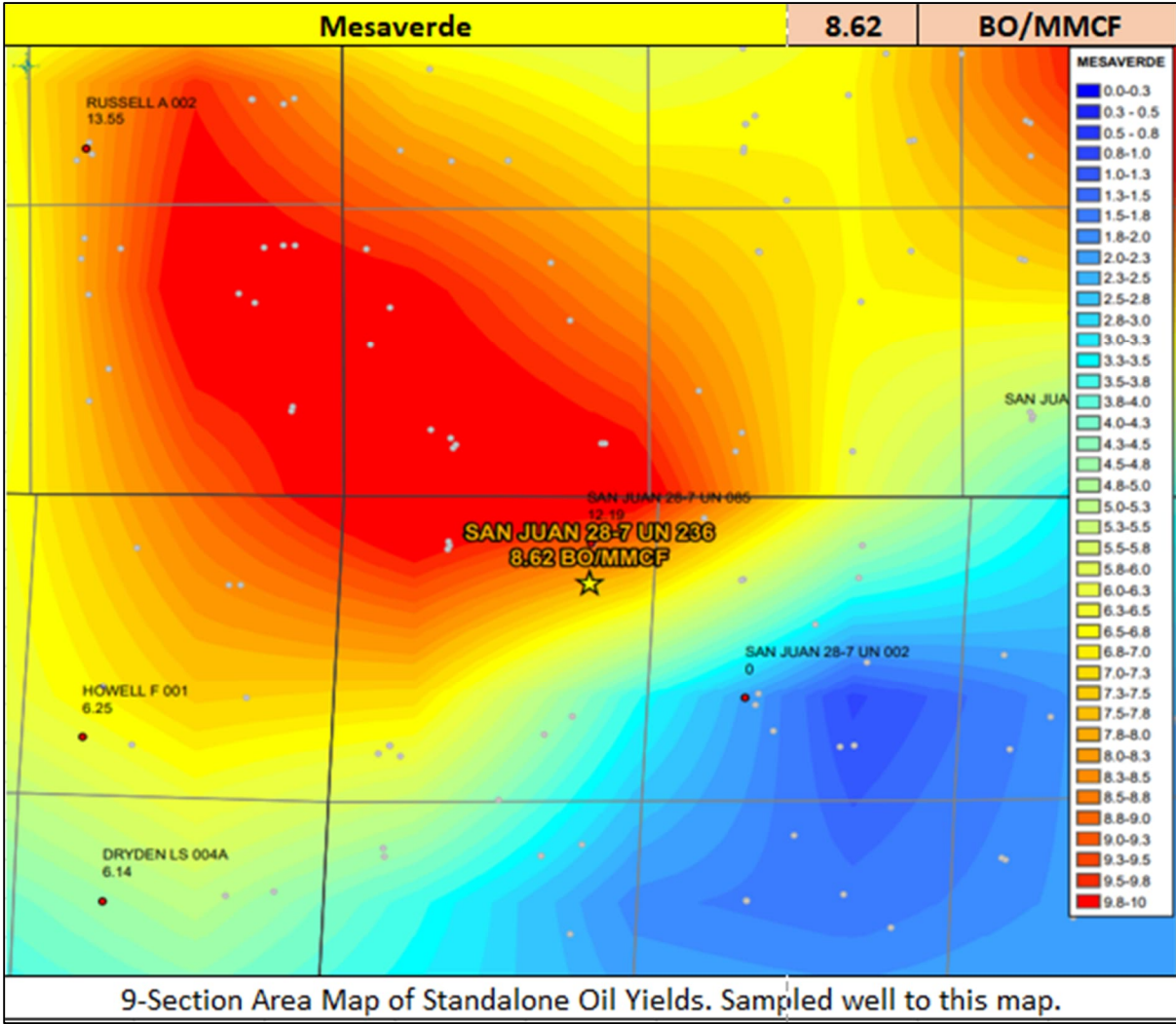
9-Section Area of Standalone Oil Yields. Sampled well to this map.

Proposed Zone 1 – Mancos Oil Yield



Average Oil Yield from Vertical Mancos Type Curve.

Proposed Zone 2 - Mesaverde Oil Yield Map



**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION FOR DOWNHOLE COMMINGLING
SUBMITTED BY HILCORP ENERGY COMPANY**

ORDER NO. DHC-5367

ORDER

The Director of the New Mexico Oil Conservation Division ("OCD"), having considered the application and the recommendation of the Engineering Bureau, issues the following Order.

FINDINGS OF FACT

1. Hilcorp Energy Company ("Applicant") submitted a complete application ("Application") to downhole commingle the pools described in Exhibit A ("the Pools") within the well bore of the well identified in Exhibit A ("the Well").
2. Applicant proposed a method to allocate the oil and gas production from the Well to each of the Pools that is satisfactory to the OCD and protective of correlative rights.
3. Applicant has certified that the proposed commingling of the Pools shall not result in shut-in or flowing well bore pressure in excess of the commingled pool's fracture parting pressure.
4. Applicant has certified that all produced fluids from all the Pools are compatible with each other.
5. Applicant has certified that downhole commingling the Pools will not decrease the value of the oil and gas production.
6. An exception to the notification requirements within 19.15.12.11(C)(1)(b) NMAC was granted by the Division within Order R-13681.
7. Applicant provided notice of the Application to the Bureau of Land Management ("BLM") or New Mexico State Land Office ("NMSLO"), as applicable.

CONCLUSIONS OF LAW

8. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-6, 70-2-11, 70-2-12, 70-2-16, 70-2-17, and 19.15.12 NMAC.
9. The downhole commingling of the Pools is common, or Applicant has provided evidence that the fluids are compatible and will not damage the Pools in accordance with 19.15.12.11(A)(1) NMAC.
10. The bottom perforation of the lower zone is within one hundred fifty percent (150%) of the depth of the top perforation in the upper zone or Applicant has provided evidence that the proposed commingling of the Pools shall not result in shut-in or flowing well bore pressure

in excess of the commingled pool's fracture parting pressure in accordance with 19.15.12.11(A)(3) NMAC.

11. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.11(A)(8) NMAC.
12. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

ORDER

1. Applicant is authorized to downhole commingle the Pools described in Exhibit A within the well bore of the well identified in Exhibit A.
2. Applicant shall allocate a fixed percentage of the oil production from the Well to each of the Pools until a different plan to allocate oil production is approved by OCD. Of the oil production from the Well:
 - a. fifty-four percent (54%) shall be allocated to the BLANCO-MESAVERDE (PRORATED GAS) pool (pool ID: 72319);
 - b. thirty-three percent (33%) shall be allocated to the BASIN MANCOS pool (pool ID: 97232); and
 - c. thirteen percent (13%) shall be allocated to the BASIN DAKOTA (PRORATED GAS) pool (pool ID: 71599).

Applicant shall allocate gas production to the new pool(s) equal to the total gas production from the Well minus the projected gas production from the current pool(s) until a different plan to allocate gas production is approved by OCD. The new pool(s) are:

- a. the BLANCO-MESAVERDE (PRORATED GAS) pool (pool ID: 72319); and
- b. the BASIN MANCOS pool (pool ID: 97232).

The current pool(s) are:

- a. the BASIN DAKOTA (PRORATED GAS) pool (pool ID: 71599).

Until a different plan to allocate gas production is approved by OCD, of the gas production allocated to the new pools:

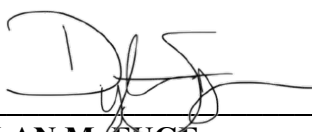
- a. sixty-five percent (65%) shall be allocated to the BLANCO-MESAVERDE (PRORATED GAS) pool (pool ID: 72319); and
- b. thirty-five percent (35%) shall be allocated to the BASIN MANCOS pool (pool ID: 97232).

Applicant shall calculate the oil and gas production average during the fourth year after the commencement of commingling, which shall be used to establish a fixed percentage of the total oil and gas production that shall be allocated to each of the Pools ("fixed percentage allocation plan"). No later than ninety (90) days after the fourth year, Applicant shall submit a Form C-103 to the OCD Engineering Bureau that includes the fixed percentage allocation plan and all data used to determine it. If Applicant fails to do so, this Order shall terminate on the following day. If OCD denies the fixed percentage allocation plan, this Order shall terminate on the date of such action. If OCD approves the percentage allocation plan with

or without modifications, then the approved percentage allocation plan shall be used to determine oil and gas allocation starting on the date of such action until the Well is plugged and abandoned.

3. If an alteration is made to the Well or a condition within the Well changes which may cause the allocation of production to the Pools as approved within this Order to become inaccurate, then no later than sixty (60) days after that event, Applicant shall submit Form C-103 to the OCD Engineering Bureau describing the event and include a revised allocation plan. If OCD denies the revised allocation plan, this Order shall terminate on the date of such action.
4. If any of the pools being commingled is prorated, or the Well's production has been restricted by an OCD order in any manner, the allocated production from each producing pool in the commingled well bore shall not exceed the top oil or gas allowable rate for a well in that pool or rate restriction applicable to the well.
5. If the Well is deepened, then no later than forty-five (45) days after the Well is deepened, Applicant shall conduct and provide logs to OCD that are sufficient for OCD to determine which pool(s) each new completed interval of the Well will produce from.
6. If the downhole commingling of the Pools reduces the value of the oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred Applicant shall submit a new downhole commingling application to OCD to amend this Order to remove the pool that caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.
7. If a completed interval of the Well is altered from what is submitted within the Application as identified in Exhibit A, then no later than sixty (60) days after the alteration, Applicant shall submit Form C-103 to the OCD Engineering Bureau detailing the alteration and completed interval.
8. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).
9. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

**STATE OF NEW MEXICO
OIL CONSERVATION DIVISION**



**DYLAN M. FUGE
DIRECTOR (ACTING)**

DATE: 5/22/24

State of New Mexico
Energy, Minerals and Natural Resources Department

Exhibit A

| | | | |
|--|--|------------|---------------|
| Order: DHC-5367 | | | |
| Operator: Hilcorp Energy Company (372171) | | | |
| Well Name: San Juan 28 7 Unit #236 | | | |
| Well API: 30-039-21661 | | | |
| Upper Zone | Pool Name: BLANCO-MESAVERDE (PRORATED GAS) | | |
| | Pool ID: 72319 | Current: | New: X |
| | Allocation: | Oil: 54.0% | Gas: 65.0% |
| | | Top: 4,200 | Bottom: 5,413 |
| Intermediate Zone | Pool Name: BASIN MANCOS | | |
| | Pool ID: 97232 | Current: | New: X |
| | Allocation: | Oil: 33.0% | Gas: 35.0% |
| | | Top: 5,413 | Bottom: 6,837 |
| Bottom of Interval within 150% of Upper Zone's Top of Interval: NO | | | |
| Lower Zone | Pool Name: BASIN DAKOTA (PRORATED GAS) | | |
| | Pool ID: 71599 | Current: X | New: |
| | Allocation: | Oil: 13.0% | Gas: curve |
| | | Top: 6,950 | Bottom: 7,151 |
| Bottom of Interval within 150% of Upper Zone's Top of Interval: NO | | | |

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 322690

CONDITIONS

| | |
|--|--|
| Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002 | OGRID: 372171 |
| | Action Number: 322690 |
| | Action Type: [C-107] Down Hole Commingle (C-107A) |

CONDITIONS

| | | |
|------------|--|----------------|
| Created By | Condition | Condition Date |
| dmcclure | Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me. | 5/22/2024 |