

**BEFORE THE OIL CONSERVATION DIVISION
EXAMINER HEARING JULY 11, 2019**

CASE No. 20649

SAN JUAN 28-6 UNIT 138 WELL

RIO ARRIBA COUNTY, NEW MEXICO



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

**APPLICATION OF HILCORP ENERGY
COMPANY FOR AN EXCEPTION TO THE
WELL DENSITY REQUIREMENTS OF THE
SPECIAL RULES AND REGULATIONS FOR
THE BLANCO-MESAVERDE GAS POOL,
RIO ARRIBA COUNTY, NEW MEXICO.**

CASE NO. 20649

AFFIDAVIT OF CHARLES CREEKMORE IN SUPPORT OF CASE NO. 20649

I, Charles Creekmore, being of lawful age and duly sworn, declare as follows:

1. My name is Charles Creekmore. I work for Hilcorp Energy Company ("Hilcorp") as a Landman.
2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. My credentials as a petroleum landman have been accepted by the Division and made a matter of record.
3. I am familiar with the application filed by Hilcorp in this case, and I am familiar with the status of the lands in the subject areas.
4. None of the affected parties in this case has indicated opposition, and therefore I do not expect any opposition at the hearing.
5. Hilcorp seeks an exception to the well density requirements of Rule I.B of the Special Rules and Regulations of the Blanco-Mesaverde Gas Pool to permit it to complete and simultaneously produce three Mesaverde gas wells in the same quarter section for a total of five Mesaverde gas wells within the same standard 320-acre, more or less, spacing and proration unit.

6. The Blanco-Mesaverde Gas Pool is governed by Special Rules and Regulations which provide for 320-acre spacing and proration units on which as many as four wells may be drilled. The Special Rules therefore limit the number of wells in a spacing unit to four and the number of wells in a half section within a spacing unit to two. The Special Rules also provide that well density exceptions can be approved only after notice and hearing.

7. Hilcorp is the operator of a standard 320-acre, more or less, spacing and proration unit in the Blanco-Mesaverde Gas Pool comprised of the E/2 of Section 23, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, in which the following four wells are currently completed and producing:

- a. San Juan 28-6 Unit 58 Well (API No. 30-039-07390) Sec. 23, T28N, R6W (Unit B);
- b. San Juan 28-6 Unit 58A Well (API No. 30-039-21688), Sec. 23, T28N, R6W (Unit P);
- c. San Juan 28-6 Unit 138M Well (API No. 30-039-26252), Sec. 23, T28N, R6W (Unit O); and
- d. San Juan 28-6 Unit 138N Well (API No. 30-039-30572), Sec. 23, T28N, R6W (Unit H).

8. Hilcorp now proposes to simultaneously dedicate and produce the following fifth well within the same standard spacing and proration unit, at the following location:

- a. **San Juan 28-6 Unit 138 Well** (API No. 30-039-20044), Sec. 23, T28N, R6W (Unit G).

9. This will be the fifth well within the same spacing unit with three wells in the same quarter section, exceeding well density limits imposed by the Special Rules.

10. Hilcorp therefore requests that the Division enter an order granting an exception to the well density requirements of Rule 1.B of the Special Rules and Regulations of the Blanco-Mesaverde Pool to authorize Hilcorp to simultaneously dedicate and produce the **San Juan 28-6 Unit 138 Well** (API No. 30-039-20044) within the E/2 of Section 23, Township 28 North, Range 6 West, permitting the total number of wells dedicated and producing within this spacing and proration unit to five, with three wells in the same quarter section.

11. The proposed simultaneous dedication of the **San Juan 28-6 Unit 138 Well**, which is currently producing in the Dakota formation, within the Blanco-Mesaverde is part of Hilcorp's strategy to use existing wells completed in other zones to economically target development of incremental Mesaverde gas reserves in areas where there is not adequate gas drainage.

12. The Division has pre-approved downhole commingling the Dakota formation with the Blanco-Mesaverde Gas Pool.

13. Pursuant to the Special Rules and Division precedent, Hilcorp provided notice to all Division-designated operators in offsetting 320-acre spacing units. Where Hilcorp is the operator, Hilcorp identified all working interest owners in offsetting spacing units as affected parties requiring notice. In some offsetting spacing units, Hilcorp may own 100% of the working interest, in which case there are no affected parties to notice.

14. **Exhibit A-1** is an overview map identifying the location of the subject Blanco-Mesaverde Gas Pool spacing unit, in the green outline, within the E/2 of Section 23, Township 28 North, Range 6 West, to which the well will be simultaneously dedicated.

15. **Exhibit A-1** also identifies the locations of the existing Mesaverde wells as dark blue circles, as well as the subject well as a dark blue triangle.

16. Exhibit A-1 also depicts the notice area comprised of the offsetting spacing units, which is the shaded area within the dark blue hashed line surrounding the subject spacing unit outlined in green. Hilcorp has provided notice of this application to the operators within the notice area. In some instances, Hilcorp may be the operator of offsetting spacing units within the notice area, in which case notice of the application was provided to all the working interest owners within the notice area.

17. **Exhibit A-2** identifies the affected parties within the offsetting spacing units who are required to be noticed. I provided a list of all affected parties requiring notice to Holland & Hart LLP. All parties were locatable.

18. To the best of my knowledge, the addresses used to provide notice are valid and correct addresses which have been recently used by Hilcorp and at which mail has been received by the notice parties.

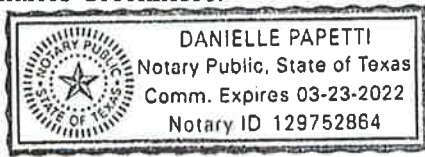
19. Exhibits A-1 and A-2 were prepared by me or under my direction and supervision.

FURTHER AFFIANT SAYETH NAUGHT.

Charles Creekmore
Charles Creekmore

STATE OF TEXAS)
COUNTY OF HARRIS)

SUBSCRIBED and SWORN to before me this 2 day of July, 2019 by
Charles Creekmore.

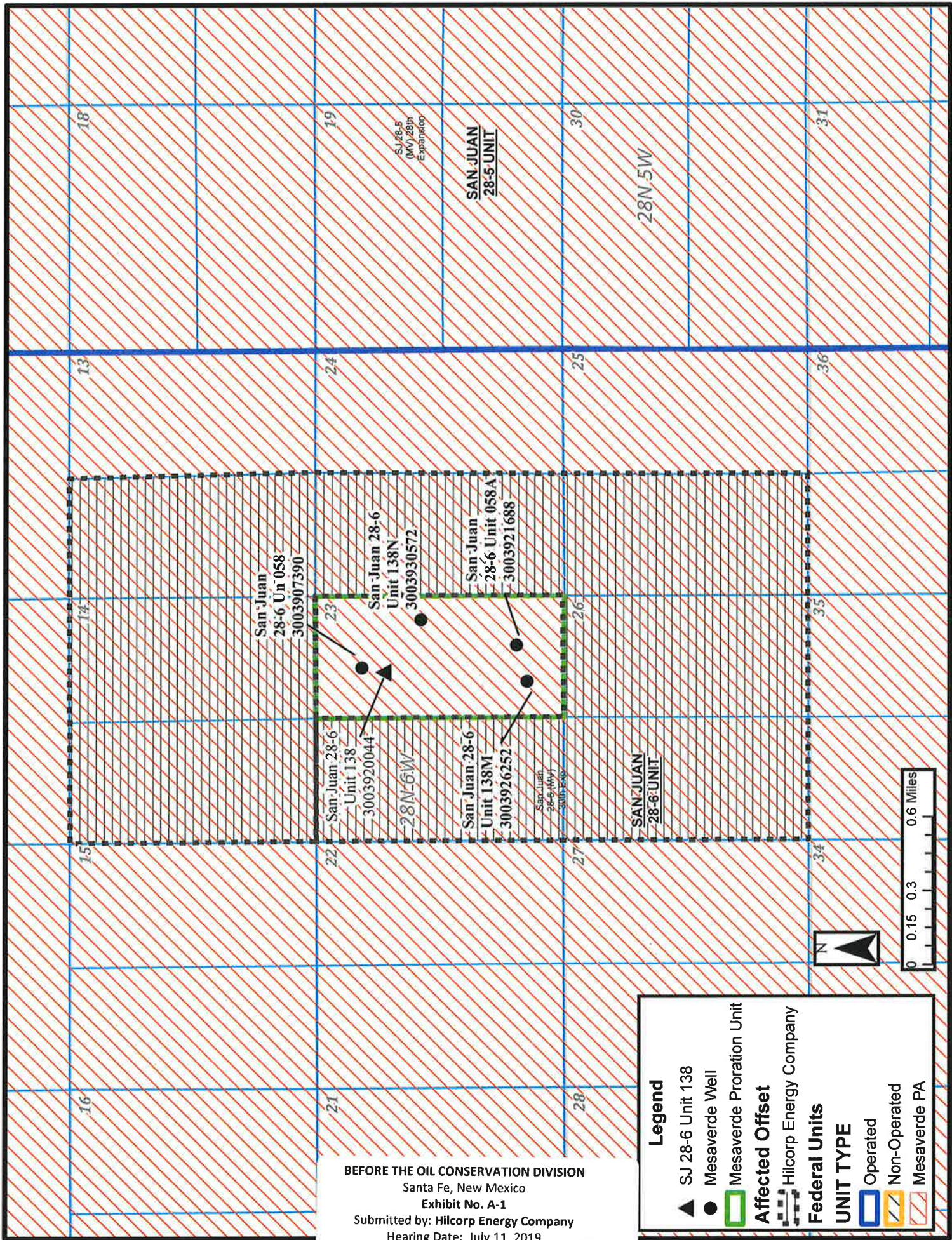


Danielle Papetti
NOTARY PUBLIC

My Commission Expires:

3/23/2022

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BEFORE THE OIL CONSERVATION DIVISION
 Santa Fe, New Mexico
 Exhibit No. A-1
 Submitted by: **Hilcorp Energy Company**
 Hearing Date: July 11, 2019
 Case # 20649

Legend

- ▲ SJ 28-6 Unit 138
- Mesaverde Well
- ▭ Mesaverde Proration Unit

Affected Offset

- Hilcorp Energy Company

Federal Units

UNIT TYPE

- Operated
- Non-Operated
- Mesaverde PA

San Juan 28-6 Unit 138 Notice Parties Addresses

Code	Name	Address	City	State	Zip Code	Interest Type
1066712	BP AMERICA PRODUCTION COMPANY	PO BOX 848103	DALLAS	TX	75284-8103	W0001
1113652	CROSS TIMBERS ENERGY LLC	400 W 7TH STREET	FT WORTH	TX	76102	W0001
1125552	JAMES R BEAMON	6140 HWY 6 SUITE 154	MISSOURI CITY	TX	77459	W0001
1126167	ROBERT WALTER LUNDELL	2450 FONDREN STE 304	HOUSTON	TX	77063-2318	W0001
1126258	SHARON BEAMON BURNS	200 BISCAYNE BOULEVARD WAY APT 3411	MIAMI	FL	33131	W0001
1126294	SUSAN BEAMON PORTER	319 KNIPP FOREST	HOUSTON	TX	77024-5030	W0001
300	Hilcorp San Juan, LP	1111 TRAVIS	HOUSTON	TX	77002	W0001
1138962	OMIMEX PETROLEUM	7950 JOHN T WHITE ROAD	FORT WORTH	TX	76120	W0001
1139405	T H MCELVAIN OIL & GAS LLLP	511 16TH STREET SUITE 700	DENVER	CO	80202	W0001
1139406	HARRINGTON ENERGY RESOURCES LP	A NM LP HARRINGTON SAN JUAN LLC GPPO BOX 219119	KANSAS CITY	MO	64121	W0001
1139407	HARRINGTON SOUTHWEST ENERGY LP	A NM LP HARRINGTON SAN JUAN LLC GPPO BOX 219119	KANSAS CITY	MO	64121	W0001
1139409	LINDA JEANNE LUNDELL LINDSEY	PO BOX 631565	NACOGDOCHES	TX	75963	W0001
1139415	TAMACAM LLC	JAMES M RAYMOND AFENT & AIFPO BOX 291445	KERRVILLE	TX	78029	W0001
1139481	LORRAYN GAY HACKER	PO BOX 291445	KERRVILLE	TX	78029-1445	W0001
1139496	J&M RAYMOND LTD	RAYMOND & SONS I LLC GEN PARTNERPO BOX 291445	KERRVILLE	TX	78029-1445	W0001
1139541	CLAUDIA MARCIA LUNDELL GILMER	723 W UNIVERSITY AVE STE 300-371	GEORGETOWN	TX	78626	W0001
1139591	CHARLES W GAY	PO BOX 291445	KERRVILLE	TX	78029-1445	W0001
1142889	CAROLYN BEAMON TILLEY	4 LAWRESTON PLACE	DALLAS	TX	75225	W0001
1146418	CB LIFELINE PARTNERSHIP	C/O CAROLYN TILLEY AGENT4 LAURESTON PLACE	DALLAS	TX	75225	W0001
1147116	ROBERT E BEAMON III	C/O JAMES R BEAMON6140 HWY 6, SUITE 154	MISSOURI CITY	TX	77459	W0001
1149218	ENDURING RESOURCES IV LLC	1050 17TH STREET SUITE 2500	DENVER	CO	80265	W0001

**STATE OF NEW MEXICO
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CASE NO. 20649

AFFIDAVIT

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

Adam G. Rankin, attorney in fact and authorized representative of Hilcorp Energy Company, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application has been provided under the notice letters and proof of receipts attached hereto.



Adam G. Rankin

SUBSCRIBED AND SWORN to before me this 10th day of July, 2019 by Adam G. Rankin.



Notary Public

My Commission Expires:

August 26, 2021



HOLLAND & HART^{LLP}



Adam G. Rankin
Phone (505) 988-4421
Fax (505) 983-6043
agrakin@hollandhart.com

June 21, 2019

VIA CERTIFIED MAIL
CERTIFIED RECEIPT REQUESTED

TO: AFFECTED PARTIES

Re: Application of Hilcorp Energy Company for an Exception to the Well Density Requirements of the Special Rules and Regulations of the Blanco-Mesaverde Gas Pool, Rio Arriba County, New Mexico.

Ladies & Gentlemen:

This letter is to advise you that Hilcorp Energy Company has filed the enclosed application with the New Mexico Oil Conservation Division. A hearing has been requested before a Division Examiner on July 11, 2019 and the status of the hearing can be monitored through the Division's website at <http://www.emnrd.state.nm.us/ocd/>. Division hearings will commence at 8:15 a.m. in Porter Hall at the Oil Conservation Division's Santa Fe Offices located at 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by this application, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from challenging the matter at a later date.

Parties appearing in cases are required by Division Rule 19.15.4.13.B to file a Pre-hearing Statement four business days in advance of a scheduled hearing. This statement must be filed at the Division's Santa Fe office at the above specified address and should include: the names of the parties and their attorneys; a concise statement of the case; the names of all witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that are to be resolved prior to the hearing.

If you have any questions about this matter, please contact Chuck Creekmore at (832) 839-4601.

Sincerely,

Adam G. Rankin
ATTORNEY FOR HILCORP ENERGY COMPANY

POSTAL DELIVERY REPORT
HEC/San Juan 28-6 Unit 138
Case No. 20649

TrackingNo	TransactionDate	ToName	DeliveryAddress	City	State	Zip	USPS_Status
9414810898765037645962	06/20/2019	T H MCELVAIN OIL & GAS LLLP	511 16th St Ste 700	Denver	CO	80202-4248	Your item was delivered to the front desk, reception area, or mail room at 3:58 pm on June 25, 2019 in DENVER, CO 80202.
9414810898765037645955	06/20/2019	OMIMEX PETROLEUM	7950 John T White Rd	Fort Worth	TX	76120-3608	Your item was delivered to the front desk, reception area, or mail room at 1:40 pm on June 25, 2019 in FORT WORTH, TX 76120.
9414810898765037645948	06/20/2019	Hilcorp San Juan, LP	1111 Travis St	Houston	TX	77002-5924	Your package will arrive later than expected, but is still on its way. It is currently in transit to the next facility.
9414810898765037645931	06/20/2019	SUSAN BEAMON PORTER	319 Knipp Forest St	Houston	TX	77024-5030	Your item has been delivered to an agent at 4:39 pm on July 1, 2019 in HOUSTON, TX 77024.
9414810898765037645924	06/20/2019	SHARON BEAMON BURNS	200 Biscayne Boulevard Way Apt 3411	Miami	FL	33131-2160	Your item was delivered to an individual at the address at 11:35 am on June 26, 2019 in MIAMI, FL 33131.
9414810898765037645900	06/20/2019	ROBERT WALTER LUNDELL	2450 Fondren Rd Ste 304	Houston	TX	77063-2316	Your item was delivered to the front desk, reception area, or mail room at 12:40 pm on July 1, 2019 in HOUSTON, TX 77063.
9414810898765037645894	06/20/2019	JAMES R BEAMON	6140 Hwy 6 Ste 154	Missouri City	TX	77459	Your item was delivered to an individual at the address at 1:17 pm on July 1, 2019 in MISSOURI CITY, TX 77459.
9414810898765037646105	06/20/2019	ENDURING RESOURCES IV LLC	1050 17th St Ste 2500	Denver	CO	80265-2080	Your item was delivered to the front desk, reception area, or mail room at 12:27 pm on June 24, 2019 in DENVER, CO 80202.
9414810898765037646099	06/20/2019	ROBERT E BEAMON III C/O JAMES R BEAMON	6140 Highway 6 Ste 154	Missouri City	TX	77459-3802	Your item was delivered to an individual at the address at 1:17 pm on July 1, 2019 in MISSOURI CITY, TX 77459.
9414810898765037645887	06/20/2019	CROSS TIMBERS ENERGY LLC	400 W 7th St	Ft Worth	TX	76102-4701	Your item has been delivered to an agent at 9:12 am on June 24, 2019 in FORT WORTH, TX 76102.
9414810898765037646082	06/20/2019	CB LIFELINE PARTNERSHIP	4 Laureston Pl	Dallas	TX	75225-1830	Your item was delivered to an individual at the address at 1:43 pm on June 24, 2019 in DALLAS, TX 75225.
9414810898765037646075	06/20/2019	CAROLYN BEAMON TILLEY	4 Laureston Pl	Dallas	TX	75225-1830	Your item was delivered to an individual at the address at 1:43 pm on June 24, 2019 in DALLAS, TX 75225.
9414810898765037646051	06/20/2019	CHARLES W GAY	PO Box 291445	Kerrville	TX	78029-1445	Your item was delivered at 11:33 am on June 27, 2019 in KERRVILLE, TX 78028.
9414810898765037646044	06/20/2019	CLAUDIA MARCIA LUNDELL GILMER	723 W University Ave Ste 300-371	Georgetown	TX	78626-6607	Your item was delivered to the front desk, reception area, or mail room at 10:57 am on June 24, 2019 in GEORGETOWN, TX 78626.

9414810898765037646037	06/20/2019	J&M RAYMOND LTD RAYMOND & SONS I LLC	PO Box 291445	Kerrville	TX	78029-1445	Your item was delivered at 11:33 am on June 27, 2019 in KERRVILLE, TX 78028.
9414810898765037646013	06/20/2019	LORRAYN GAY HACKER	PO Box 291445	Kerrville	TX	78029-1445	Your item was delivered at 11:33 am on June 27, 2019 in KERRVILLE, TX 78028.
9414810898765037646006	06/20/2019	TAMACAM LLC JAMES M RAYMOND AFENT & AIF	PO Box 291445	Kerrville	TX	78029-1445	Your item was delivered at 11:33 am on June 27, 2019 in KERRVILLE, TX 78028.
9414810898765037645993	06/20/2019	LINDA JEANNE LUNDELL LINDSEY	PO Box 631565	Nacogdoches	TX	75963-1565	Your item was delivered at 2:19 pm on July 5, 2019 in NACOGDOCHES, TX 75965.
9414810898765037645986	06/20/2019	HARRINGTON SOUTHWEST ENERGY LP	PO Box 219119	Kansas City	MO	64121-9119	Your item was delivered at 10:00 pm on June 23, 2019 in KANSAS CITY, MO 64121.
9414810898765037645979	06/20/2019	HARRINGTON ENERGY RESOURCES LP	PO Box 219119	Kansas City	MO	64121-9119	Your item was delivered at 10:00 pm on June 23, 2019 in KANSAS CITY, MO 64121.
9414810898765037645870	06/20/2019	BP AMERICA PRODUCTION COMPANY	PO Box 848103	Dallas	TX	75284-8103	Your item was delivered at 8:55 am on June 24, 2019 in DALLAS, TX 75284.

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

The State of New Mexico through its Oil Conservation Division hereby gives notice pursuant to law and the Rules and Regulations of the Division of the following public hearing to be held at 8:15 A.M. on July 11, 2019, in the Oil Conservation Division Hearing Room at 1220 South St. Francis, Santa Fe, New Mexico, before an examiner duly appointed for the hearing. If you are an individual with a disability who is in need of a reader, amplifier, qualified sign language interpreter, or any other form of auxiliary aid or service to attend or participate in the hearing, please contact: Florene Davidson at 505-476-3458 or through the New Mexico Relay Network, 1-800-659-1779 by July 1, 2019. Public documents, including the agenda and minutes, can be provided in various accessible forms. Please contact Florene Davidson if a summary or other type of accessible form is needed.

STATE OF
NEW MEXICO TO:
All named parties and persons having any right, title, interest or claim in the following case and notice to the public.

(NOTE: All land descriptions herein refer to the New Mexico Principal Meridian whether or not so stated.)

TO: ALL WORKING INTEREST OWNERS IN THE SUBJECT SPACING UNIT AND OFF-SETTING OPERATORS OR LEASED MINERAL INTEREST OWNERS, INCLUDING: BP AMERICA PRODUCTION COMPANY; CROSS TIMBERS ENERGY LLC; JAMES R. BEAMON, HIS HEIRS AND DE- VISEES; ROBERT WALTER LUNDELL, HIS HEIRS AND DE- VISEES; SHARON BEAMON BURNS, HER HEIRS AND DE- VISEES; SUSAN BEAMON PORTER, HER HEIRS AND DE- VISEES; OMIMEX PETROLEUM; T H MCLVAIN OIL & GAS LLLP; HARRINGTON ENERGY RE- SOURCES LP, A NM LP, HARRINGTON SAN JUAN LLC GP; HARRINGTON SOUTHWEST ENERGY LP, A NM LP, HARRINGTON SAN JUAN LLC GP; LINDA JEANNE LUNDELL LINDSEY, HER HEIRS AND DE- VISEES; TAMACAM LLC, JAMES M. RAYMOND APENT & AIF; LORRAYN GAY

HACKER, HER HEIRS AND DE- VISEES; J&M RAYMOND LTD. RAY- MOND & SONS, LLC GEN. PARTNER; CLAUDIA MARGA LUN- DELL GILMER, HER HEIRS AND DE- VISEES; CHARLES W. GAY, HIS HEIRS AND DE- VISEES; CAROLYN BEAMON TALLEY, HER HEIRS AND DE- VISEES; CB ANGLE, HER HEIRS AND DE- VISEES; LIFELINE PARTNER- SHIP, C/O COGENT; TILLEY AGENT; ROBERT E. BEAMON III, HIS HEIRS AND DE- VISEES; C/O JAMES R. BEAMON; ENDURING RESOURCES IV LLC. CASE 20649: Applica- tion of Hilcorp Energy Company for an Excep- tion to the Well Density Requirements of the Special Rules and Reg- ulations of the Blanco- Mesavde Gas Pool, Rio Arriba County, New Mexico. Applicant in the above-styled cause seeks an order for an exception to the well density re- quirements of Rule 1.B of the Special Rules and Regulations for the Blanco- Mesavde Gas Pool (72319), Rio Arriba County, New Mexico, to permit it to complete and simultaneously produce five Mesavde gas wells in the same standard 320- acre, more or less, spa- cing and proration unit, with three wells in the same quarter section. Hil- corp further seeks ap- proval for the proposed location of the San Juan 28-5 Unit 138 Well (API No. 30-030-200845) in the Mesavde location with a surface location within G of the E/2 of Section 23, Township 28 North, Range 6 West, NMPM, Rio Arriba County, New Mexico, and authoriza- tion to simultaneously complete and produce the San Juan 28-5 Unit 138 Well from the Blanco- Mesavde Gas Pool. Said well is located ap- proximately 30 miles east of Bloomfield, NM. (Published June 27th, 2019)

Affidavit Publication

State of New Mexico
County of Rio Arriba

I, Robert Trapp, being first duly sworn, declare and say I am the publisher of the Rio Grande SUN, a weekly newspaper published in the English language and having a general circu- lation in the County of Rio Arriba, State of New Mexico, and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 of the Session Laws of 1937. The publication, a copy of which is hereto attached, was published in said paper once each week for

Publisher's Bill

168 lines one time at 117.60

 lines times at

Affidavit 5.00

Subtotal 122.60

Tax 10.96

Total 133.56

1 consecutive weeks and on the same day of each week in the regular issue of the paper during the time of publication and the notice was published in the newspaper proper, and not in any supplement. The first publication being on the

27 day of June 2019

and the last publication on the 27 day of

June 2019 payment for said advertisement has been duly made, or assessed as court costs. The undersigned has personal knowledge of the matters and things set forth in this affidavit.

Maria G. Chavez Publisher

Subscribed and sworn to before me this 27 day of June A.D. 2019



Maria G. Chavez/Notary Public
My commission expires 21 October 2020

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

**APPLICATION OF HILCORP ENERGY
COMPANY FOR AN EXCEPTION TO THE
WELL DENSITY REQUIREMENTS OF THE
SPECIAL RULES AND REGULATIONS FOR
THE BLANCO-MESAVERDE GAS POOL,
RIO ARriba COUNTY, NEW MEXICO.**

CASE NO. 20649

AFFIDAVIT OF MICHELLE SIVADON IN SUPPORT OF CASE NO. 20649

Michelle Sivadon, being of lawful age and duly sworn, declare as follows:

1. My name is Michelle Sivadon. I work for Hilcorp Energy Company ("Hilcorp") as a reservoir engineer.
2. I have previously testified before the New Mexico Oil Conservation Division as an expert in reservoir engineering. My credentials as a reservoir engineer have been accepted by the Division and made a matter of record.
3. I am familiar with the application filed by Hilcorp in this case and have conducted an engineering study of the subject area and of the Blanco-Mesaverde Gas Pool.
4. As with Hilcorp's prior applications for well density exceptions in the Blanco-Mesaverde Gas Pool, I used a decline curve analysis of existing wells to estimate ultimate recoveries for the subject spacing unit under the existing well density. I then compared the estimated ultimate gas recoveries against log-derived volumetric calculations for the original gas in place with the cumulative gas production in the spacing unit. Using this approach, we identified areas, including the subject spacing unit, that have substantial remaining recoverable

gas and lower-than-expected gas recoveries where additional well bores or well completions are necessary to adequately drain remaining gas reserves.

5. **Exhibit C-1** contains information relating to the subject spacing unit and the **San Juan 28-6 Unit 138 Well** (API No. 30-039-20044) within the E/2 of Section 23, Township 28 North, Range 6 West, which is the well Hilcorp proposes for simultaneous dedication within the Blanco-Mesaverde Gas Pool in this application. It is currently producing within the Dakota formation. It will be the third Mesaverde completion in the quarter section within the spacing unit. I anticipate that it will help drain the area to the south.

6. **Exhibit C-2** is a basin-wide map reflecting Hilcorp's calculations for original gas in place across the Blanco-Mesaverde Gas Pool. The warmer colors represent areas where there is more original gas in place. The cooler colors indicate areas where there is less original gas in place. The red star indicates the location of the subject well in an area where we calculate moderately high volumes of original gas in place.

7. **Exhibit C-3** is a map depicting the calculated estimated ultimate recovery (EUR) from the Blanco-Mesaverde Gas Pool and drainage radius. The larger radius circles reflect wells with higher EURs and larger drainage areas. The red star identifies the location of the subject well where there is relatively low EURs and the drainage radii are smaller.

8. **Exhibit C-4** is a map depicting calculated remaining recoverable gas. The cooler colors indicate areas where there is relatively less remaining recoverable gas. The warmer colors reflect areas where there is relatively more remaining recoverable gas. The red star identifies the location of the subject well in an area where we calculate that there is relatively considerable remaining recoverable gas and relatively low EURs under the existing well density.

9. **Exhibit C-5** is a table that supports this volumetric analysis. The first column titled "Volumetric OGIP" reflects the calculated volumetric original gas in place on a quarter section, section, and nine-section area basis around the subject spacing unit. The column titled "Section Equivalent OGIP" shows the estimated gas in place to show that the estimates are consistent across the area. The column titled "CTD/RF%" shows the cumulative gas production to date on a quarter section, section, and nine-section area basis and the calculated recovery factor. The column titled "Remaining GIP" shows the estimated remaining gas in place on a quarter section, section, and nine-section area basis. The last column titled "EUR/RF%" shows the estimated ultimate gas recovery and recovery factor calculated on a quarter section, section, and nine-section area basis.

10. I would expect recovery factors of approximately 70-80% in a gas pool of this type. The relatively low recovery factors in Exhibit C-5 reflected at the section and nine-section scale indicate that this area is not being sufficiently drained by the existing wells in the subject spacing unit under the existing well density and that additional well bores, or completions, are necessary to adequately drain the Blanco-Mesaverde Gas Pool in this area.

11. Approval of Hilcorp's application is therefore necessary to drain unrecovered gas reserves that will otherwise be left in place under the existing well density.

12. **Exhibit C-6** is a well bore diagram for the subject well. It provides the most current information known regarding the status and construction of the well, as well as the location and condition of cement within the wellbore. Hilcorp will separately seek administrative approval from the Division's Aztec District Office for authorization to recompleting this well in advance of undertaking any recompletion operations.

13. In my opinion, granting this application will not impair the Blanco-Mesaverde Gas Pool, and will be in the interest of conservation, the prevention of waste and will protect correlative rights.

14. Exhibits C-1 through C-6 were prepared by me or under my direction and supervision.

FURTHER AFFIANT SAYETH NAUGHT.

Michelle Sivadon
Michelle Sivadon

STATE OF TEXAS)

COUNTY OF Harris)

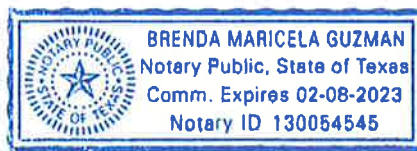
SUBSCRIBED and SWORN to before me this 3rd day of July, 2019 by
Michelle Sivadon.

[Signature]

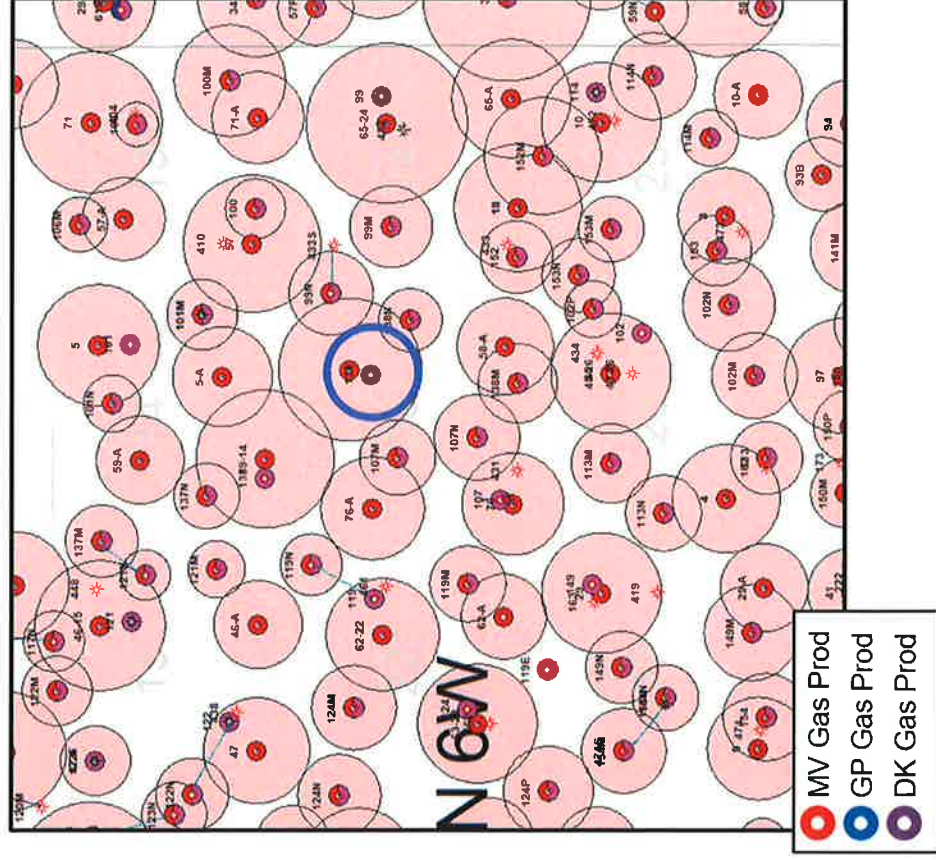
NOTARY PUBLIC

My Commission Expires:

02/08/2023



San Juan 28-6 Unit 138

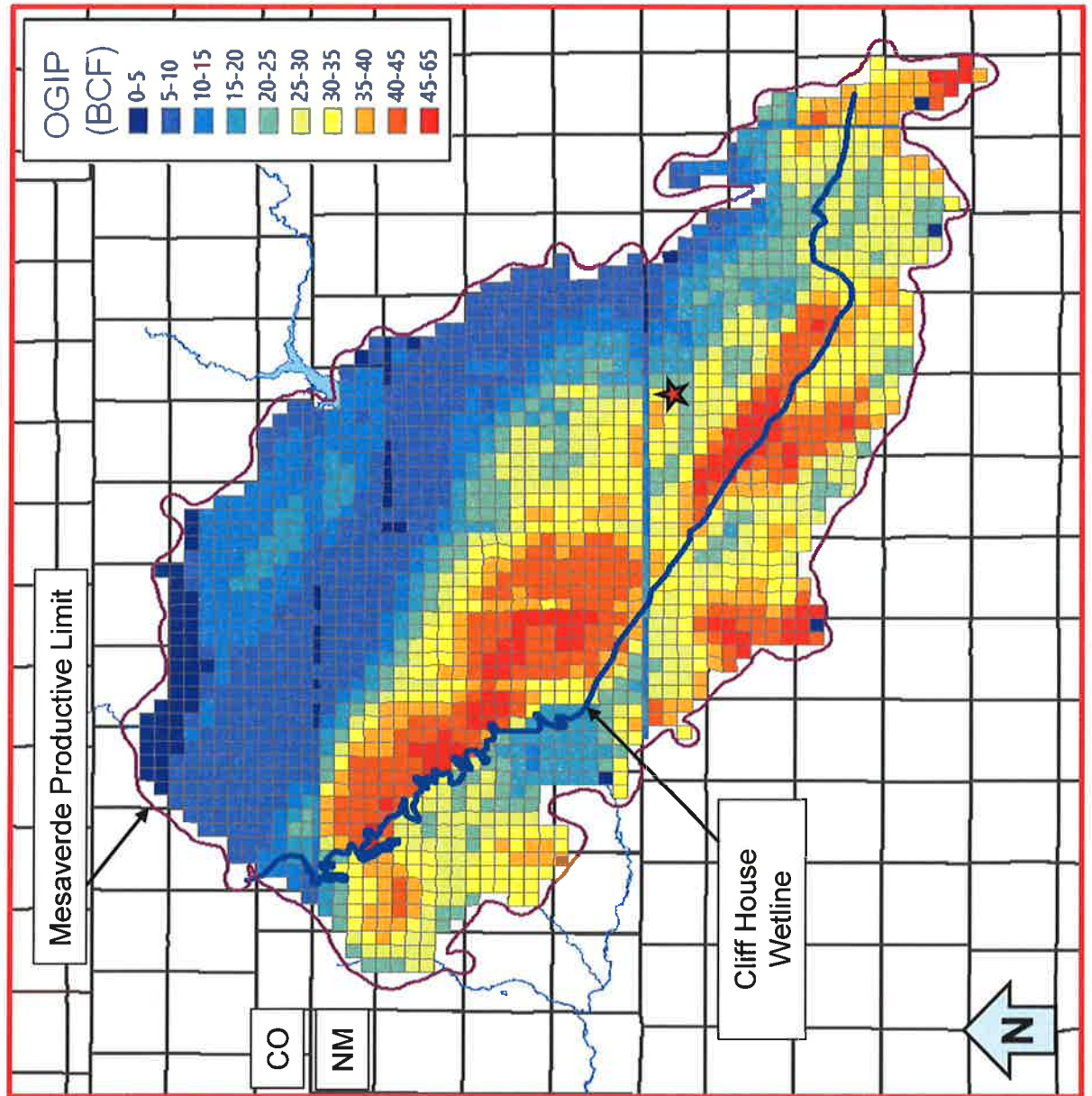


Well Specifics

- NE23 28-6 3003920044 1967 drill
- 3rd MV completion in 1/4 section
 - 138 is in unit G, 58 is in unit B
- 475' from nearest MV producer
- Help drain area to the south
- Complete MV in 1-2 stages

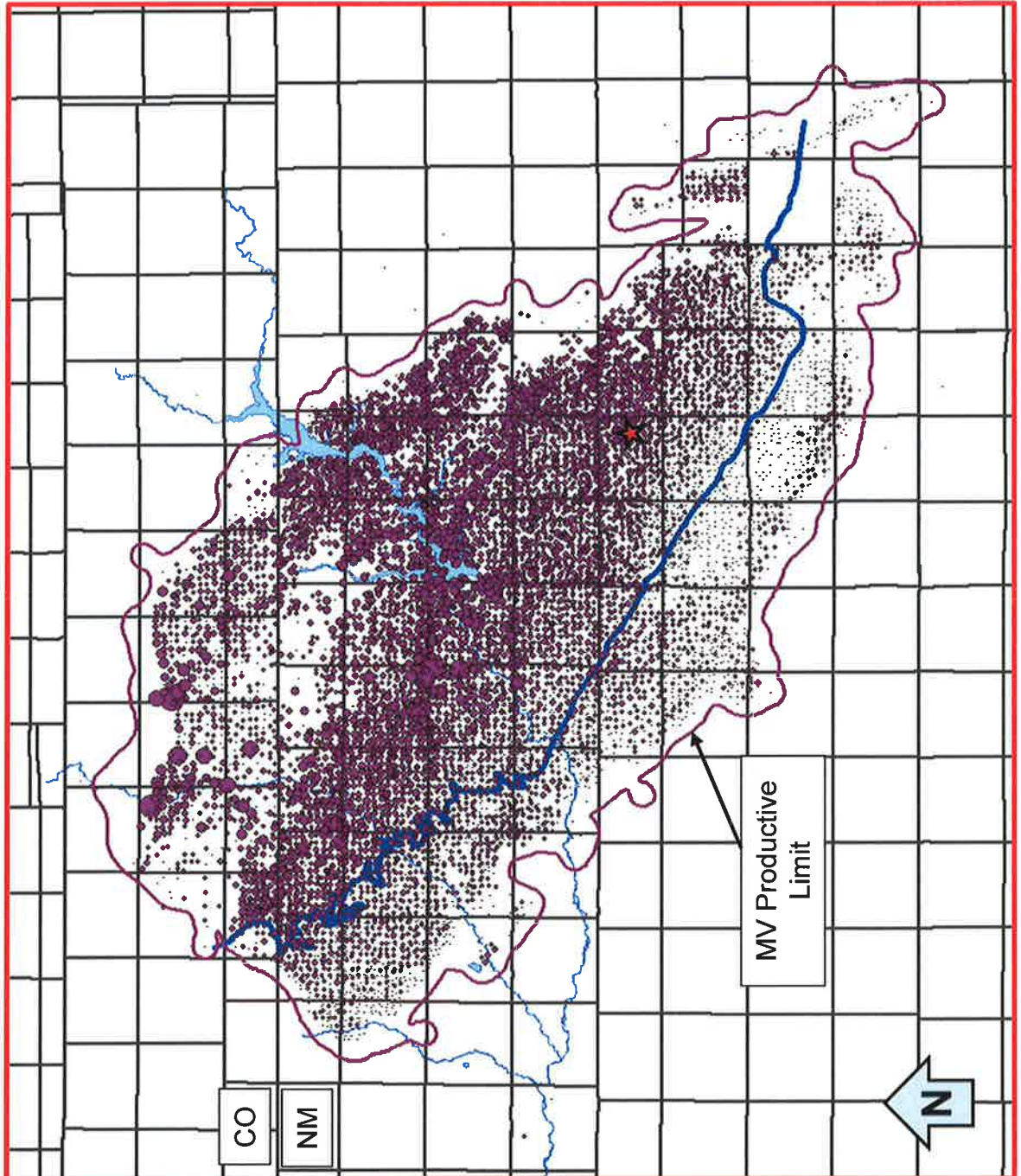


MV Original Gas In Place



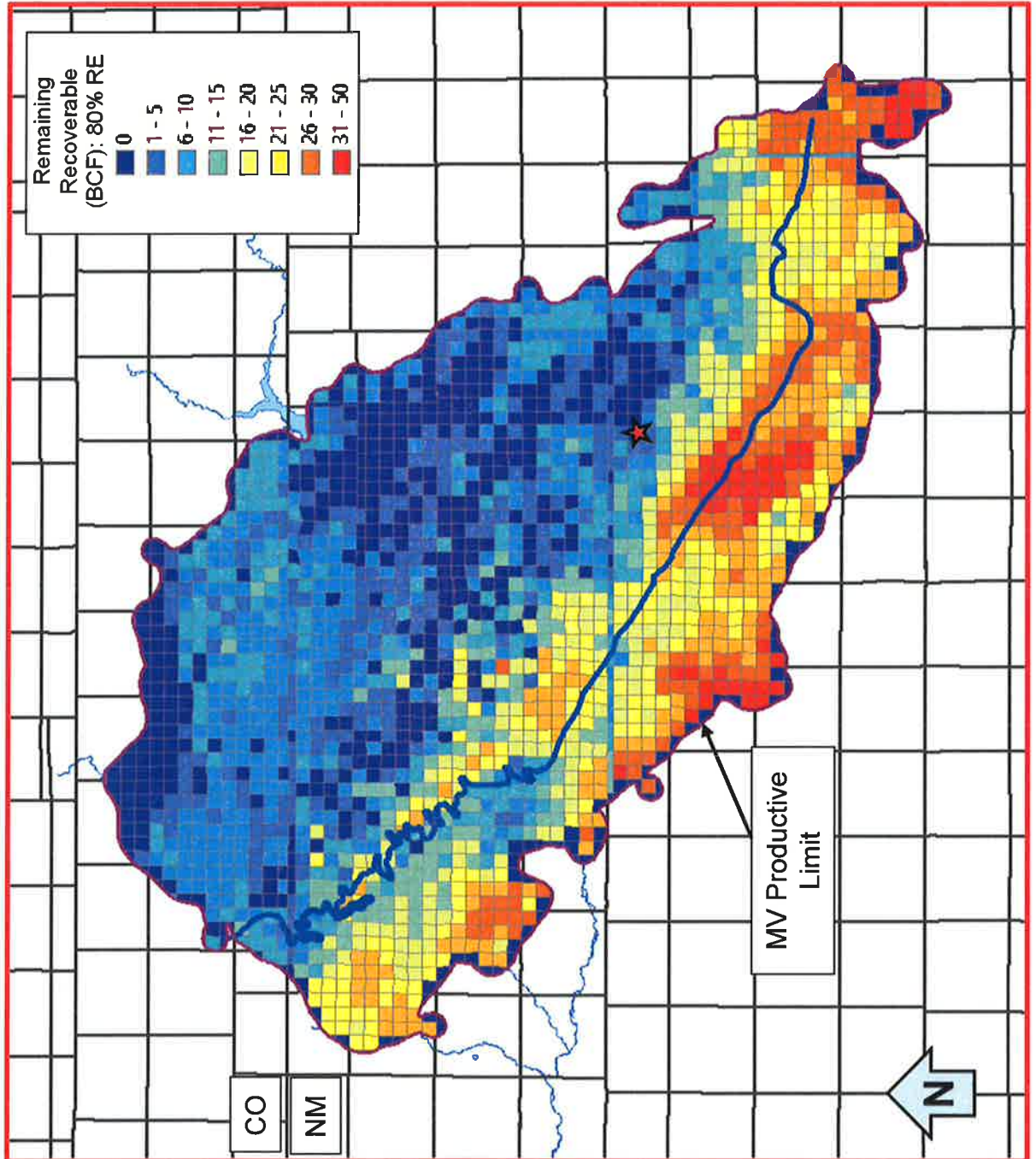


MV EUR and Drainage Radius





MV Remaining Recoverable Gas



San Juan 28-6 Unit 138



Reference Area	Volumetric OGIP	Section Equivalent OGIP	CTD / RF%	Remaining GIP	EUR / RF%
Qtr Section	7.5 Bcf	30.0 Bcf	6.1 Bcf / 81%	1.4 Bcf	7.5 Bcf / 100%
Section	28.1 Bcf	28.1 Bcf	16.2 Bcf / 58%	11.9 Bcf	21.5 Bcf / 76%
9 Section	253.0 Bcf	28.1 Bcf	130.0 Bcf / 52%	123.0 Bcf	176.0 Bcf / 70%

- Remaining Gas in Place in Quarter Section of 1.4 Bcf
- Cumulative Recovery Factor to Date 81% and 58% in the Quarter Section and Section, respectively
- Considerable gas remaining in area with opportunity to recover additional volumes utilizing existing wellbore

