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

APPLICATION OF HILCORP ENERGY COMPANY TO AMEND THE WELL DENSITY AND LOCATION REQUIREMENTS AND ADMINISTRATIVE EXCEPTIONS OF THE SPECIAL RULES FOR THE BLANCO-MESAVERDE GAS POOL, RIO ARRIBA AND SAN JUAN COUNTIES, NEW MEXICO.

Case No. 16403

HILCORP'S RESPONSE TO SAN JUAN CITIZENS ALLIANCE'S MOTION TO DENY APPLICATION

Hilcorp Energy Company ("Hilcorp") submits this response in opposition to the San Juan Citizens Alliance's ("SJCA") Motion to Deny Hilcorp's Application (the "Motion"). The Motion misapprehends the Commission's rules and discretion, and it garbles the legal distinction between rulemaking and adjudication. For the reasons stated, the Motion should be denied.

A. The Commission Has <u>Express Authority</u> Under its Adjudicatory Procedures to Allow Non-Parties to Make Relevant Statements at the Hearing.

Contrary to the SJCA's assertion, the Commission's rules give it discretion to permit interested non-parties to make relevant statements in adjudicatory proceedings outside the evidentiary record. Under its rules, "[t]he commission shall have the discretion to allow other persons [*i.e.*, non-parties] present at the hearing to make a relevant statement, but not to present evidence or cross examine a witness." 19.15.4.14.C NMAC ("Conduct of Adjudicatory Hearings").

Rather than recognize this express provision in the Commission's adjudicatory rules, the SJCA instead cites the Commission's rulemaking regulations, as if those rules provide the only means for the Commission to hear and receive relevant public comment from interested non-parties. *See* SJCA Mot. at 3 ("Public comment is contemplated under OCC's rulemaking

procedures, NMAC 19.15.3.12 (A)(2)(f), <u>but not under its adjudication procedures</u>." (emphasis added)). Under this faulty premise, the SJCA extends its argument to contend the Commission attempts "to strike an unsatisfactory—and illegal—compromise between its rulemaking and adjudicatory procedures" and, because it permitted public comment in this proceeding, "implicitly" recognizes Hilcorp's application should be subject to the Commission's rulemaking procedures. *See* Mot. at 7 (emphasis added). The SJCA is flat wrong on both counts. The Commission plainly has discretion under its rules governing adjudicatory proceedings to accept relevant comments and statements from interested non-parties. And the Commission is clearly bound by New Mexico Supreme Court precedent to treat pool rule applications affecting individual property rights as an adjudication. *See Uhden v. New Mexico Oil Conservation Comm'n*, 1991-NMSC-089, ¶ 7, 817 P.2d 721. Permitting the SJCA and "other persons" to make relevant statements at the hearing is not an "illegal" blending of its rulemaking and adjudicatory procedures, but is a valid exercise of the Commission's discretion in its quasi-judicial capacity.

Not only are such "relevant statement[s]" expressly permitted under the Commission's adjudication procedures, but they also constitute a long-standing practice at adjudicatory proceedings before the Division and Commission, <u>including adjudications involving special pool</u> <u>rules and the SJCA</u>. *See* Case No. 12888 (Application to amend Special Rules of the Basin-Fruitland Coal ("Gas") Pool to increase the well density), Order No. R-8768-C at ¶3(f) (identifying "a number of individual surface owners and representatives of various interest groups," including the SJCA, who "offered their comments on the Application and on other matters beyond the scope of the proceeding and the Division's Jurisdiction."), attached as <u>**Exhibit A**</u>. That is, the SJCA has been down this road before. When the SJCA is unable to establish a basis to intervene, as here, the Commission's adjudicatory rules permit the SJCA and

other non-parties to submit relevant statements for the Commission's consideration outside the evidentiary record.

The SJCA suggests that allowing such statements is "illegal" in the context of adjudicatory proceedings, but cites no authority in support of the proposition that non-party statements in adjudications are prohibited by law, or that the Commission's Rule 19.15.4.14.C NMAC is somehow void as contrary to law. *See Matter of Adoption of Doe*, 1984-NMSC-024, ¶ 2, 676 P.2d 1329 ("We assume where arguments in briefs are unsupported by cited authority, counsel after diligent search, was unable to find any supporting authority."). It may be "unsatisfactory" to the SJCA, but accepting the submission of non-party statements outside the evidentiary record in this adjudication is not illegal. Taking the SJCA's contention to its logical conclusion exposes the absurdity of the argument.

If allowing public comment from non-parties were illegal in adjudications, then the Commission's numerous existing regulations, which expressly authorize interested, non-parties to submit statements in adjudications, also must be illegal and void as a matter of law. *See, e.g.*, 19.15.17.15(B)(1) NMAC ("Pit Rule") ("[A]nyone may submit comments to the director" in response to a proposed exception (emphasis added)); 19.15.30.15(C) ("Remediation Rule") (providing that "[a] person seeking to comment on a stage 1 abatement plan, or to comment or request a public hearing on a stage 2 abatement plan, shall file written comments or hearing requests with the division[.]"); 19.15.36.10(A) NMAC ("Surface Waste Management Facilities") ("<u>A person who wishes to comment</u> or request a hearing shall file comments or request a hearing on the proposed approval of an application with the division clerk[.]"). Simply put, the SJCA's contention makes no sense and is unsupported by any legal theory or authority.

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The Commission has express provisions in its rules which permit it to hear and accept relevant statements from non-parties in adjudicatory proceedings. Allowing such public statements in this case is not illegal and is not an implicit acknowledgment by the Commission that Hilcorp's application is more properly considered a rulemaking. The New Mexico Supreme Court has already squarely determined that applications regarding pool rules affecting particular reservoirs and identifiable individuals, such as Hilcorp's application in this case, is an adjudication, not a rulemaking.

B. Hilcorp's Application is an Adjudication, Not a Rulemaking.

The SJCA erroneously asserts that the Commission has the option in this case to consider Hilcorp's application as a rulemaking because 19.15.3.8(D) states that the Commission "may" adopt special pool orders through adjudicatory proceedings. Mot. at 4. Whatever merit that argument may have under a different set of facts, the argument here is misplaced.

As the New Mexico Supreme Court has already previously held, an application "regarding the engineering and geological properties of [a] particular reservoir" constitutes "an adjudicatory and not a rulemaking proceeding." *Uhden*, 1991-NMSC-089, ¶ 7. The reason this is true is not restricted to the fact that the "persons affected [are] limited in number and identifiable," or that a resulting order "pertain[s] to a limited area." *Id*. Proceedings on pool rules are adjudicatory because they directly affect the ability of the operators of oil and gas wells to access, develop, and realize their property interests. In other words, pool rules directly affect operators' correlative rights.

A decision on a pool rule amendment is, therefore, <u>not a legislative decision</u> which implements a policy determination with broad applicability, <u>but a decision which determines the</u> <u>private rights and obligations</u> of the operators in the pool. Longstanding New Mexico law confirms that policy decisions with broad applicability are subject to rulemaking procedures,

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whereas determinations affecting the private rights and obligations of parties are adjudicatory. *See Timberon Water Co., Inc. v. N.M. Pub. Serv. Comm'n*, 1992-NMSC-047, ¶ 23, 836 P.2d 73 (distinguishing an administrative action as rulemaking when it furthers the public interest under the state's police powers by implementing public policy and adjudicatory when it is based on adjudicating a private right rather than). New Mexico Courts and the Legislature recognize this critical distinction. *See* NMSA 1978, § 10-15-1(H)(3) (defining an "<u>administrative adjudicatory</u> <u>proceeding</u>" under the Open Meetings Act as "a proceeding brought by or against a person before a public body <u>in which individual legal rights</u>, duties or privileges" are determined after hearing (emphasis added)).

In this proceeding, Hilcorp's application to amend the Special Rules of the Blanco-Mesaverde Gas Pool requests an increase in the well density permitted under the Special Rules governing management of the reservoir. Hilcorp has determined that the existing well density is not adequate to drain remaining gas reserves. Hilcorp is a leasehold operator with significant property interests in the remaining gas reserves. A decision to increase well density is a determination that will significantly affect Hilcorp's private rights in the gas reserves. While future actions as a result of Hilcorp's action may implicate potential future policy considerations, such as surface waste management issues, air emissions, regional oil and gas development, and other considerations which are the focus of SJCA's "fears" and "concerns," the scope of Hilcorp's application is narrow and laser-focused on its ability to develop and access its private rights in the remaining gas reserves in place. That makes this application an adjudication. *See Timberon Water Co., Inc.,* 1992-NMSC-047, ¶ 23.

The SJCA ignores this critical distinction. It appears to assert that whether a proceeding should be considered a rulemaking turns on the number of people affected. *See* Mot. at 4

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(quoting *Bi-Metallic Inv. Co. v. State Bd. of Equalization*, 239 U.S. 441, 446 (1915)). Or that a proceeding should be considered a rulemaking because of potential future effects on property and the environment that implicate public values across the region. *Id.* at 5. The SJCA views Hilcorp's application as principally implicating such policy considerations. But those policy considerations are beyond the scope of this application and the Commission's jurisdiction here. *See* Exhibit A, Order No. R-8768-C at ¶3(f). In no way can the determination to establish well density be considered a policy decision, the implementation of a legislative agenda. It is a determination that directly affects the private rights of Hilcorp and other operators in the pool. *See Uhden*, 1991-NMSC-089, ¶ 7 (citing *Harry R. Carlile Tr. v. Cotton Petroleum Corp.*, 732 P.2d 438, 442 (Okla. 1986) (holding that spacing of wells "clearly calls for a factual finding and affects the proprietary incidents . . . we conclude that a quest for the formation of a drilling and spacing unit calls for adjudication rather than rulemaking." (emphasis added))). Hilcorp's application is an adjudication.

The SJCA relies on *Miles v. Bd. of County Com'rs of County of Sandoval*, 1998-NMCA-118, 964 P.2d 169, to suggest that setting well density limits under special pool rules is akin to enacting a zoning ordinance because it affects "property rights and values as well as public health and safety." Mot. at 5-6. But unlike determinations affecting oil and gas pool rules, zoning ordinances are "legislative in nature, made by an elective body <u>under its police powers for the protection of the health, safety and welfare of the public</u>." *Miles*, 1998-NMCA-118, ¶ 11 (quoting *Downtown Neighborhoods Ass'n v. City of Albuquerque*, 1989-NMCA-091, ¶ 11, 783 P.2d 962) (emphasis added); *see Uhden*, 1991-NMSC-089, ¶ 7 (holding that applications regarding oil and gas pools constitute "an adjudicatory and not a rulemaking proceeding"). A zoning decision "is a policy decision . . . based upon general criteria and not the details of any particular landowner." *Id.* at ¶ 12. Conversely, pool rule determinations are "adjudicative rather than rulemaking" in nature because they affect the "proprietary interests" of <u>specific and</u> <u>identifiable</u> oil and gas operators with interests in the pools. *Uhden*, 1991-NMSC-089, ¶ 7 (emphasis added) (citing *Harry R. Carlile Tr.*, 732 P.2d at 442).

CONCLUSION

For the reasons stated, the SJCA's Motion should be denied.

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify that on November 16, 2018 I served a copy of the foregoing document to the following counsel of record via Electronic Mail to:

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

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

NOMENCLATURE CASE NO. 12888 ORDER NO. R-8768-C

APPLICATION OF THE FRUITLAND COALBED METHANE STUDY COMMITTEE TO AMEND RULES 4 AND 7 OF THE SPECIAL RULES AND REGULATIONS FOR THE BASIN-FRUITLAND COAL (GAS) POOL AND FOR THE TERMINATION OF THE CEDAR HILL-FRUITLAND BASAL COAL POOL AND THE CONCOMITANT EXPANSION OF THE BASIN-FRUITLAND COAL (GAS) POOL, RIO ARRIBA, SAN JUAN, MCKINLEY, AND SANDOVAL COUNTIES, NEW MEXICO.

ORDFR OF THE DIVISION

RY THE DIVISION:

This case came on for hearing at 8:15 a.m. on July 9, 2002, at Farmington, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 15th day of October, 2002, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner,

FINDS THAT!

(1) Due public notice has been given, and the Division has jurisdiction of this case and its subject matter.

(2) The applicant in this case, the Fruitland Coalbed Methane Study Committee ("Committee"), seeks an order of the Division to amend the "*SpecialRules and Regulations for the Basin-Fruitland Coal (Gas) Poor* as promulgated by Division Order No. R-8768, as amended by Orders No. R-8768-A and R-8768-B, as follows:

(a) Increase well density for coalbed methane wells by amending Rules 4 and 7 of the special pool rules for the Basin-Fruitland Coal Gas Pool (71629) located in Rio Arriba, San Juan, McKinley and Sandoval Counties, New Mexico to authorize, under certain restrictions, infill development by increasing the well density from the current maximum of one (1) well provided in Order No. R-8768,

> as amended, to a maximum of two (2) wells (160-acre infill) per 320acre gas spacing unit for wells located in the pool.

> (b) In the alternative, Applicant requests the adoption of the well density rules referenced in subparagraph (a), above, for wells located in the "Low Productivity Area" of the pool and of special administrative notification procedures for infill wells proposed to be drilled in the "High Productivity Area" of the pool.

(c) Applicant further proposes to amend the well location provision of Rule 7 of the special pool rules to conform with the well location requirements for the Basin-Dakota Pool (71599) to provide that wells located outside a federal exploratory unit may be drilled anywhere within a standard 320-acre gas spacing unit provided such wells are located no closer than 660 feet to the outer boundary of the unit nor closer than 10 feet from any interior quarter or quarter-quarter section line or subdivision inner boundary; and to further provide that wells located within federal exploratory units may not be closer than 10 feet to any section, quarter section, or interior quarter-quarter section line or subdivision inner boundary, provided however that:

(i) wells shall not be closer than 660 feet to the outer boundary of a federal exploratory unit;

(ii) wells located within the unitized area but adjacent to an existing or prospective spacing unit containing any noncommitted tract or partially committed tract shall be no closer than 660 feet to the outer boundary of such spacing unit; and further

(iii) wells located within the unitized area but within a non-committed or partially committed gas spacing unit shall not be closer than 660 feet to the outer boundary of that unit.

(d) Applicant also seeks to abolish the Cedar Hill-Fruitland Basal Coal Pool (74500) and incorporate the horizontal and vertical limits of the Cedar Hill-Fruitland Basal Coal Pool into the Basin-Fruitland Coal (Gas) Pool.

(3) The following parties of record entered their appearances in this case and participated at the hearing:

(a) Burlington Resources Oil and Gas Company ("Burlington"), BP America, Inc. ("BP"), and Phillips Petroleum Company ("Phillips"), as operators of wells currently producing from the Basin-Fruitland Coal (Gas) Pool, presented technical evidence.

(b) Steve Hayden, District Geologist for the Division's Aztec District Office, testified in his capacity as Chairman of the Committee.

(c) Williams Production Company, Chevron-Texaco, Dugan Production Corporation, Texakoma Oil and Gas Production, McElvain Oil and Gas, and Synergy Operating Company, all operators of wells currently producing from the Basin-Fruitland Coal (Gas) Pool, also appeared at the hearing.

(d) San Juan Coal Company, the operator of a coal mine and owner of a number of coal mining leases and interests, also appeared at the hearing.

(e) Representatives of the U. S. Department of the Interior's Bureau of Land Management and the Division's Aztec district office also appeared at the hearing and offered both written and verbal comments on the Application.

(f) In addition to the parties of record and the representatives of industry and government referenced above, a number of individual surface owners and representatives of various interest groups also attended the hearing and offered their comments on the Application and on other matters beyond the scope of the proceeding and the Division's jurisdiction. These individuals and representatives included: Dr. Brooks Taylor; Ms. Tweetie Blancett; Commissioner Bill Humphries, former Commissioner of Public Lands of the State of New Mexico (appearing for the New Mexico Cattle Growers Association); Ms. Janet Reese; and Mr. Alien Ralston (appearing for the San Juan Citizens Alliance).

(4) In compliance with the Division's notice rules and Rule 4 of the Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool, Burlington, on behalf of the Committee, sent approximately 67 copies of this application, including its version of the proposed rule changes and notice of hearing to approximately 300 operators in the Basin-Fruitland Coal (Gas) Pool. Notice of this case was also published in the appropriate newspapers and on the Division's hearing docket.

(5) The horizontal limits of the Basin-Fruitland Coal (Gas) Pool currently comprise the following-described area in all or portions of San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico, with the exception of Sections 3 through 6 of Township 31 North, Range 10 West, NMPM and Sections 19 through 22 and 27 through 34 of Township 32 North, Range 10 West, NMPM, San Juan County, New Mexico, which acreage (comprising approximately 10,240 acres) currently comprises the Cedar Hill-Fruitland Basal Coal Pool that was established by Division Order No. R-7588, issued in Case No. 8014 on July 9, 1984:

Township 19 North, Ranges 1 West through 6 West, NMPM; Township 20 North, Ranges 1 West through 8 West, NMPM; Township 21 North, Ranges 1 West through 9 West, NMPM; Township 22 North, Ranges 1 West through 11 West, NMPM; Township 23 North, Ranges 1 West through 14 West, NMPM; Township 24 North, Ranges 1 East through 16 West, NMPM; Township 25 North, Ranges 1 East through 16 West, NMPM; Township 26 North, Ranges 1 East through 16 West, NMPM; Township 27 North, Ranges 1 West through 16 West, NMPM; Township 28 North, Ranges 1 West through 16 West, NMPM; Township 28 North, Ranges 1 West through 16 West, NMPM; Township 29 North, Ranges 1 West through 15 West, NMPM; Township 30 North, Ranges 1 West through 15 West, NMPM; Township 31 North, Ranges 1 West through 15 West, NMPM; and Township 32 North, Ranges 1 West through 15 West, NMPM;

(6) The vertical limits of both the Basin-Fruitland Coal (Gas) Pool and the Cedar Hill-Fruitland Basal Coal Pool include all coal seams within the equivalent of the stratigraphic interval from a depth of approximately 2450 feet to 2880 feet as shown on the well log from the Amoco Production Company Schneider Gas Com "B" Well No. 1 (**API** No. 30-045-22178) located 1110 feet from the South line and 1185 feet from the West line (Unit M) of Section 28, Township 32 North, Range 10 West, NMPM, San Juan County (see Division Orders No. R-8768, issued in Case No. 9420 on October 17, 1988, and R-7588-B, issued in Case No. 9362 on October 19, 1988).

(7) The Basin-Fruitland Coal (Gas) Pool is an "unprorated gas pool" not subject to part H of the Division's statewide rules and regulations entitled "gas proration and allocation" (Rules 601-605). However, the Basin Fruitland Coal "Gas" Pool is subject to the "*SpecialRules and Regulations for the Basin-Fruitland Coal Gas Pool.*" established by Division Order No. R-8768, as amended by Orders No. R-8768-A and R-8768-B, which rules provide for:

(i) 320-acre spacing units (Rule 4); and

(ii) wells to be located in either the NE/4 or SW/4 of a single governmental section and no closer than 660 feet to the outer boundary of the spacing unit nor closer than 10 feet to any interior quarter or quarter-quarter section line or subdivision inner boundary (Rule 7).

(8) Rule 4 of the "*SpecialRules and Regulations for the Basin-Fruitland Coal* (*Gas*) *Poor* directs that each well to be completed in the pool is to be located on a standard unit containing 320 acres, more or less, comprising any two contiguous quarter sections of a single governmental section.

(9) The Committee is a voluntary technical study group comprised of representatives of the Division's Aztec District office and numerous operators in the San Juan Basin. The Committee's purpose is to evaluate past and ongoing development in the Basin-Fruitland Coal (Gas) Pool and the Cedar Hill-Fruitland Basal Coal Gas Pool and make recommendations to the Division on the future development in the pools.

(10) During the course of the Committee's deliberations, all of the Committee participants were in agreement that there are areas where 160-acre infill development is warranted.

(11) The Committee participants also agreed that there are other areas where one well would be capable of draining in excess of 320 acres. The Committee determined that in these areas, infill drilling could lead to the drilling of unnecessary wells.

(12) BP presented evidence to the Committee showing that wells making less than 2.0 million cubic feet per day were capable of draining only 200 acres. In recognition of the smaller drainage radii in those areas where wells produce less than 2.0 million cubic feet per day, the Committee established a boundary for what it has labeled the "Low Productivity Area."

(13) The Committee labeled the area outside of the Low Productivity Area, where a single well is capable of draining in excess of 200 acres, the "High Productivity Area." The acreage in the High Productivity Area in both San Juan and Rio Arriba Counties, New Mexico, is identified as follows:

Township 29 North, Range 6 Wes	st, NMPM	
Sections 2 through 8:	All	
Sections 11 and 12:	All	
Sections 17 and 18:	All	
Township 29 North, Range 7 West, NMPM		
Section 1:	All	
Sections 12 and 13:	All	
Township 30 North, Range 5 West, NMPM		
Sections 19 through 21:	All	
Sections 29 through 31:	All	
C		
Township 30 North, Range 6 West, NMPM		
Sections 5 through 35:	All	
6		
Township 30 North, Range 7 We	st, NMPM	
Sections 1 through 18:	All	
Sections 22 through 26:	All	
Section 36:	All	
Township 30 North, Range 8 West, NMPM		
Sections 1 through 4:	All	
Sections 10through 13:	All	
C		
Township 30 North, Range 9 Wes	st, NMPM	
Section 2:	All	
Township 31 North, Range 6 West, NMPM		
Section 6:	All	
Section 31:	All	
Township 31 North, Range 7 Wes	st, NMPM	
Section 1:	All	

Sections 12 through 14:	All
Sections 19 through 36:	All
Township 31 North, Range 8 Wes	
Sections 4 through 10:	All
Sections 13 through 36:	All
Township 31 North, Range 9 Wes	st, NMPM
Sections 1 through 7:	All
Sections 11 through 14: All	
Sections 22 through 27:	All
Sections 34 through 36:	All
Township 32 North, Range 6 Wes	· ·
Section 19:	All
Sections 29 through 31:	All
Township 32 North, Range 7 Wes	t, NMPM
Sections 23 through 26:	All
Section 36:	All
To see this 22 No. (1. Down of 9 We	
Township 32 North, Range 8 Wes Section 19:	· ·
	All
Sections 30 through 32:	All
Township 32 North, Range 9 Wes	t, NMPM
Sections 24 through 26:	All
Sections 30 through 32:	All
Sections 35 and 36:	All
Township 32 North, Range 10 We	st NMPM
Sections 7 through 12:	All
Sections 14 through 25:	All
Sections 28 through 30:	All
C C	
Township 32 North, Range 11 West	· · · · · · · · · · · · · · · · · · ·
Sections 11 through 13:	All
Section 24:	All.

(14) The Low Productivity Area is that acreage within the horizontal boundaries of the Basin-Fruitland Coal (Gas) Pool described in Paragraph 6, above, and the Cedar Hill-Basal Coal Pool described in Paragraph 10, above, excluding the High Productivity Area.

(15) The Committee participants were in unanimous agreement that effective 160acre infill development in the Low Productivity Area is justified.

(16) The Committee was unable to reach consensus on the need for infill development within the High Productivity Area. Two witnesses, Steve Hayden of the Division's Aztec District Office and Steve Jones of Phillips, testified that there is a lack of sufficient engineering data from wells located within the High Productivity Area.

(17) There was disagreement among the Committee participants on the proper approach to development within the High Productivity Area. Some members advocated infill drilling within the high productivity area without limitation. Other members advocated infill drilling subject to the adoption of special notification rules and administrative procedures. Others asserted that additional data was needed and that further study was warranted. As a consequence of the disagreement, the Committee concluded that it would be appropriate to provide for the collection of additional engineering data in order to further study infill development within the high productivity area and to revisit the issue after one year's time.

(18) In its Application, the Committee specifically proposed that the "Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool'be amended to provide, inter alia, that operators proposing an optional infill well in a spacing unit within the High Productivity Area must notify offset operators, but that such Application for Permit to Drill ("APD") for such optional infill well could be approved by the Division's District Supervisor in Aztec in the absence of objection within twenty days after such notice.

(19) The testimony of witnesses who participated in the Committee deliberations establishes that the Application does not reflect the full range of views of the Committee participants or the scope of relief that the Committee resolved would be requested. Specifically, the Application fails to reflect the Committee's determination that additional production and engineering data from wells within the High Productivity Area should be obtained and studied before any recommendation is made for infill development in that area.

(20) In Division Order No. R-8768, issued in Case No. 9420 on October 17, 1988, the Division found that:

> "(14) Further testimony and evidence indicates that due to the unique producing characteristics of coal seams (i.e. initial inclining production rates), engineering methods such as decline curve analysis and volumetric calculations traditionally used to aid in the determination of proper well spacing, cannot be utilized. "

(21) In Division Order No. R-11639, issued in Case No. 12651 on August 22, 2001, the Division found as follows:

"(7) By Order No. R-8768-A, dated My 16, 1991, the Division made findings based on work presented by the "Fruitland Coalbed Methane Committee" concerning the Basin-Fruitland Coal (Gas) Pool showing that one well can generally drain and effectively develop 320 acres [see Finding Paragraphs No. 6 and 7 onpage 2 of Order No. R-8768-A]; however, there may be certain areas within the San Juan Basin where reservoir parameters such as porosity, permeability, coal thickness, pressure, gas content, sorption isotherm and initial gas/water saturation may exist in certain combinations such that infill drilling may be required to increase gas recovery. "

(22) In Division Order No. R-8768-B, issued in Case No. 12296 on February 10, 2000, based on geologic and engineering evidence presented by Burlington, the Division found [see Finding Paragraph No. (15) on pages 4 and 5] that:

"(a) the Basin-Fruitland Coal (Gas) Pool can be divided into an over-pressured area and an under-pressured area;

(b) the over-pressured area is located in the north central portion of the pool and currently comprises all or portions of the following described area in San Juan and Rio Arriba Counties, New Mexico;

> Township 29 North, Ranges 5 West through 8 West, NMPM; Township 30 North, Ranges 4 West through 9 West, NMPM; Township 31 North, Ranges 5 West through 10 West, NMPM;

and

Township 32 North, Ranges 5 West through 12 West, NMPM;

> (c) nearly all of the acreage in the over-pressured area has been developed and adequately drained. The area drained by individual wells in the over-pressured area of the pool is approximately 320 acres;

> (d) initial completions in the over-pressured area experienced reservoir pressures of approximately 1600 psi; currently new completions experience reservoir pressures of between 400 and 500 psi;

> (e) permeability in the over-pressured area is approximately 4.5 millidarcies;

(f) because the over-pressured area has essentially been developed and the reservoir pressure has decreased substantially, relaxing the setback requirements in the over-pressured area will not violate correlative rights;

(g) the under-pressured area includes the remainder of the acreage in the Basin-Fruitland Coal (Gas) Pool;

(h) the under-pressured area is not fully developed and is the area of primary concern for future development under the proposed setback changes. The area drained by individual wells in the underpressured area of the pool is approximately 160 acres;

(i) initial completions in the under-pressured area experienced reservoir pressures of less than 600 psi; currently new completions experience reservoir pressures of between 200 and 300 psi; [and]

(j) permeability in the under-pressured area is approximately .3 millidarcies"

(23) In Division Order No. R-11639, issued in Case No. 12651 on August 22, 2001, the Division found that geologic and engineering evidence established the following [see Finding Paragraph No. (9) on pages 4 and 5]:

"(a) the Basin-Fruitland Coal (Gas) Pool can be subdivided into an over-pressured area, which is commonly refered [sic] to as the

> "fairway," which trends northwest-southeast and splits the basin into a northeastern one-third and southwestern two-thirds, and underpressured areas on either side of this trend;

> (b) the cumulative production from the Basin-Fruitland Coal (Gas) Pool has served to highlight the sharp contrast and characteristics of coal bed methane production between the fairway and the under-pressured areas;

(c) producing wells within the fairway appear to be draining 320 acres under the existing well density rules of one wellper 320-acre spacing unit, while wells in the under-pressured areas appear not to be adequately draining 320 acres;

(d) most of the reservoir engineering data and well simulation information in the original pool cases were based upon well performance and production data in a particular area, known as Cedar Hill, within thefairway; [and]

(e) currently available data in the under-pressured area is not adequate to determine whether: (i) conventional calculations of original gas in place are correct and more wells are needed; or (ii) those reserves are substantially overestimated and the current well density is adequate."

It was further determined in this finding that:

"(h) the stratigraphic complexity and grouping relationships observed in each pilot area will dictate the number of layers that are tested and ultimately modeled separately for coal quality, isotherm development, current levels of depletion, gas content, and productive potentials; [and]

(*i*) there is a needfor layered pressure evaluation, which cannot be obtained from existing wellbores. "

(24) BP's petroleum engineering expert witness testified that wells capable of producing 2.0 million cubic feet per day would drain between 240 and 320 acres. BP's engineering witness also testified that net coal thickness and gas content are poor indicators of a well's drainage radius.

(25) BP's engineering witness further testified that the effective permeability in the High Productivity Area could be as high as 100 millidarcies. The witness noted a correlation between permeability and producing rates, concluding that drainage areas are strongly influenced by permeability. He further noted the existence of significant areas of high permeability within the High Productivity Area.

(26) BP's engineering witness testified that infill drilling would be necessary to recover an additional 500 billion cubic feet of gas within the High Productivity Area that would not be accessible with existing wells. The witness's conclusions were based on infill drilling data from Colorado.

(27) BP's engineering witness testified that without frequent and accurate pressure measurement it was not possible to conduct a correct material balance calculation in order to determine drainage radii for infill development wells. The witness admitted that he did not have actual pressure data from wells within the High Productivity Area in New Mexico that would have enabled him to conduct a correct material balance calculation.

(28) BP's material balance exhibits for the Colorado wells show widely variable drainage areas for parent and infill wells. BP's engineering witness testified that it is likely that as much variability in the drainage area would be encountered in infill wells in New Mexico.

(29) BP's graphic evidence of Colorado historical production demonstrates that parent wells began to experience a decline in production when infill wells started to come on line, indicating the possible existence of communication and interference between parent and infill wells.

(30) Graphic evidence presented by BP comparing drainage areas and highest producing rates shows a high degree of variability throughout the infill development area in Colorado. BP's engineering witness testified that one could reasonably expect to encounter similar variability within the high productivity area in New Mexico.

(31) BP's engineering witness testified that the company plans to drill in excess of 150 infill wells in the future within the High Productivity Area.

(32) The geologic evidence and testimony presented by Burlington identified nine separate pool layers frequently encountered in the San Juan Basin that can be correlated throughout the basin. While the geologic evidence presented by Burlington established that infill drilling would add additional reserves, the evidence also showed that

the coal formations within the pool exhibit significant heterogeneity on both a vertical and lateral basis and that significant discontinuities exist throughout the major coal layers.

(33) Geologic testimony and evidence presented by former U.S. Geological Survey Geologist James Facett establish that it is rarely possible to correlate specific coal strata over five or six miles. The preponderance of the evidence establishes that the coal formations are usually characterized by more frequent discontinuities over significantly smaller cross-section areas.

(34) The data supporting Burlington's geologic conclusions was derived from five pilot project areas, all of which were located in the under-pressured "non-fairway" coals located primarily outside of the High Productivity Area.

(35) Burlington presented petroleum engineering testimony establishing that current well density in the under-pressured portion of the pool results in inadequate recovery of the reserves and that an additional well per spacing unit is justified. Burlington's conclusions were derived from data obtained from five pilot wells authorized by the Division in 2001 pursuant to Division Order No. R-11639, issued in Case No. 12651 on August 22, 2001.

(36) Using that data, and a proprietary simulation model, Burlington was able to estimate original gas in place and ultimate recovery for the under-pressured area.

(37) The data obtained from Burlington's pilot project wells and the conclusions they support were extrapolated and applied to the under-pressured area only.

(38) Burlington's analysis supports the conclusion that infill development will substantially increase incremental recovery in the under-pressured area. In the 28-6 Unit Area, it is estimated that one well for each 320-acre gas spacing unit will recover approximately 29% of the original gas in place. With infill drilling, it is expected that the recovery will increase to approximately 40% of original gas in place, a 37% increase. Similarly, pilot project data for the Davis 505S Area demonstrate that recoveries will increase by approximately 68%. The pilot project wells modeled by Burlington are representative of the range and production performance in estimated ultimate recovery for the offsetting producing wells.

(39) Burlington's engineering witness testified that the nature of coal bed methane production in the over-pressured area is such that traditional decline curve analysis cannot be used to determine estimated ultimate recovery.

(40) Burlington's engineering witness further testified that there does not presently exist sufficient pressure data to accurately determine ultimate recoveries for the fairway area. Moreover, the Burlington witness testified that original gas in place calculations have not been utilized to determine the estimated ultimate recovery for the fairway. Burlington is in the process of creating original gas in place mapping for the fairway, but that project is incomplete at the present time.

(41) The analysis of the data obtained from Burlington's infill pilot study established that current well density in the Low Productivity Area of the pool results in inadequate recovery of reserves. The pilot well test data demonstrate that inadequate drainage occurs in some or all of the coal layers as represented by measured pressure data. Data from the study further establishes that additional completions will result in additional recovery of reserves in the Low Productivity Area. However, Burlington's engineering witness testified that the results from the pilot area project studies should not be used to establish a basis for infill rules for the High Productivity Area because there were insufficient data in the form of multi-layer pressures in reservoir simulations to legitimately extrapolate and apply these analyses to the High Productivity Area.

(42) Phillips presented testimony and evidence through its engineering witness establishing that the average recovery to date from twenty-seven wells in the under-pressured area south of the fairway is only 0.23 BCF per well and that the estimated average ultimate recovery will be only 0.4 BCF per well with an average estimated drainage area of 35 acres per well using a Langmuir coal gas content of 500 standard cubic feet per ton or 70 acres per well using a Langmuir coal gas content of 250 standard cubic feet per ton. Such evidence provides further justification for infill development in the under-pressured area of the pool.

(43) The Phillips engineering witness further testified that drainage areas were calculated for forty-five wells in the area north of the High Productivity Area using material balance estimates based on a coal gas content of 500 standard cubic feet per ton. Utilizing these values, Phillips determined that approximately 69% of those wells are draining less than 320 acres providing further justification for infill drilling in this area.

(44) Phillips provided additional evidence of its analysis of wells located within the High Productivity Area. The evidence of that analysis establishes that on average wells in that area are draining at least 320 acres. In addition, the Phillips pressure data showed significant uniformity over a very large portion of the High Productivity Area.

(45) Phillips provided evidence of its analysis of an additional eighty-five wells

located throughout the High Productivity Area. The average drainage radius for all 85 wells was 389 acres. Of those wells draining more than 320 acres, the average drainage radius was 481 acres. Only 36% of the wells studied were draining less than 320 acres.

(46) Phillips presented additional evidence of reservoir pressures establishing the existence of communication across a very large area in one or more of the coal formation layers. A further analysis of offsetting wells reflected a fairly rapid equilibration of pressures, providing further evidence of the existence of communication. The reservoir pressure data and other evidence of communication establishes the probable existence of layering effects that require further study before it can be determined whether infill development within the High Productivity Area is justified.

(47) Phillips presented the only direct evidence and analysis of production data from producing wells located within the High Productivity Area.

(48) A preponderance of the evidence establishes that current 320-acre spacing is adequate in the High Productivity Area.

(49) Testimony from the BP and Burlington witnesses on cross examination established that those two companies have plans to drill as many as 300 infill well locations within the High Productivity Area in 2003. The plans for other operators within the High Productivity Area are not presently known. The testimony of other witnesses including the Phillips witness established the probability that a significant number of those 300 planned infill wells would trigger the drilling of additional offset wells to protect the correlative rights of owners in the offsetting acreage as well as to satisfy drilling and drainage demands from other interest owners, including the Bureau of Land Management. The drilling of such a significant number of wells within the High Productivity Area in a relatively short timeframe would create a significant risk that the correlative rights of interest owners would be adversely affected. Moreover, such accelerated drilling would create a significant risk that an unacceptable number of unnecessary wells would be drilled. The drilling of unnecessary wells constitutes waste.

(50)Based on the relative lack of direct evidence of the potential effects from infill drilling within the High Productivity Area, it would not be prudent for the Division to amend the pool rules to provide for increased density within the High Productivity Area at this time. The more prudent course of action would be to refer the matter of infill drilling within the High Productivity Area back to the Committee for further study. Among other things, due to the highly competitive nature of the pool and its multi-layered geology, the Committee should consider modeling a significantly larger, more representative area within the High Productivity Area evaluating the effect production on wells over of а greater

distance than just an infill well location.

(51) The request to increase the well density within the High Productivity Area through infill development on effective 160-acre spacing should be *denied* at this time.

(52) The reservoir and production studies demonstrate that it is now appropriate to amend the pool rules for the Low Productivity Area of the pool in order to increase the infill well density to an effective 160-acre spacing while preserving 320-acre spacing units to maintain the integrity of the Basin-Fruitland Coal (Gas) Pool and to promote orderly depletion of the remaining reserves.

(53) The preponderance of the geologic and engineering evidence establishes that 160-acre infill development is justified in the Low Productivity Area.

(54) By Division Order No. R-1 1775, issued in Case No. 12734 on June 6, 2002, Richardson Operating Company was granted authorization to develop the Basin-Fruitland Coal (Gas) Pool underlying the following-described area in San Juan County, New Mexico with two wells per 320-acre gas spacing unit:

TOWNSHIP 79 NORTH, RANGE 14 WEST, NMPMSections 4 through 6:All

TOWNSHIP 79 NORTH, RANGE 1.5 WEST, NMPMSection 1:All

TOWNSHIP 30 NORTH, RANGE 14 WEST, NMPMSection 16:AllSections 19 through 21:AllSections 28 through 33: All

TOWNSHIP 30 NORTH, RANGE 1.5 WEST, NMPMSection 36:All.

This area is within the Low Productivity Area that is the subject of this case.

(55) At the request of San Juan Coal Company the Division's order issued in Case No. 12734 is currently on appeal before the New Mexico Oil Conservation Commission ("Commission"). Prior to the July 9, 2002 hearing in this matter, San Juan Coal Company requested that the area covered by Case No. 12734 be excluded from the general infill application in Case No. 12888. On July 2, 2002, this request was presented

before the Examiner and was verbally granted. On July 26, 2002, the Commission issued Order No. R-11775-A staying the effect of Division Order No. R-11775 pending review by the Commission.

TTTSTHEREFOREORDFRFDTHAT!

(1) The Cedar Hill-Fruitland Basal Coal Pool (74500), comprising the following described 10,240 acres, more or less, in San Juan County, New Mexico, is hereby abolished. Concomitantly, the Basin-Fruitland Coal (Gas) Pool (71629), as heretofore classified, defined, and described, is hereby extended to include therein the horizontal limits comprising this same area:

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM Sections 3 through 6: All

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPMSections 19 through 22:AllSections 27 through 34:All.

(2) Hereafter, the horizontal limits of the Basin-Fruitland Coal (Gas) Pool shall comprise the following-described area in all or portions of San Juan, Rio Arriba, McKinley and Sandoval Counties, New Mexico:

Township 19 North, Ranges 1 West through 6 West, NMPM; Township 20 North, Ranges 1 West through 8 West, NMPM; Township 21 North, Ranges 1 West through 9 West, NMPM; Township 22 North, Ranges 1 West through 11 West, NMPM; Township 23 North, Ranges 1 West through 14 West, NMPM; Township 24 North, Ranges 1 East through 16 West, NMPM; Township 25 North, Ranges 1 East through 16 West, NMPM; Township 26 North, Ranges 1 East through 16 West, NMPM; Township 26 North, Ranges 1 West through 16 West, NMPM; Township 27 North, Ranges 1 West through 16 West, NMPM; Township 28 North, Ranges 1 West through 16 West, NMPM; Township 29 North, Ranges 1 West through 15 West, NMPM; Township 30 North, Ranges 1 West through 15 West, NMPM; Township 31 North, Ranges 1 West through 15 West, NMPM; and Township 32 North, Ranges 1 West through 13 West, NMPM.

(3) The request to allow infill drilling within the "High Productivity Area" of the pool, as further described in Finding Paragraph No. (13) above, is hereby *denied*. The

matter of infill drilling within this portion of the pool is referred back to the Fruitland Coalbed Methane Committee ("Committee") for further study.

(4) Pursuant to the Committee's application, Rules 4 and 7 of the "Special Rules and Regulations for the Basin-Fruitland Coal Gas Pool," as promulgated by Division Order No. R-8768, as amended by Orders No. R-8768-A and R-8768-B, are hereby amended in their entirety to read as follows:

"RULFA: Each standard gas spacing unit will consist of 320 acres, more or less, comprising any two contiguous quarter sections of a single governmental section, being a legal subdivision of the UnitedStates Public Lands Survey.

RI/LE 7 (a) • WELLI OCA TION

(1) A well drilled or recompleted on a standard or nonstandard spacing unit in the Basin-Fruitland Coal (Gas) Pool shall be located no closer than 660 feet to the outer boundary of the spacing unit and no closer than 10 feet to any interior quarter-quarter section line or sub-division inner boundary.

(2) A well drilled or <u>recompleted</u> within a federal exploratory unit is not subject to the 660-foot setback requirement to the outer boundary of the spacing unit, provided however:

(i) the well shall not be closer than 10 feetto any section, quarter section, or interior quarter-quarter section line or subdivision inner boundary;

(ii) the well shall not be closer than 660 feet to the outer boundary of the federal exploratory unit;

(iii) if the well is located within the federal exploratory unit area but adjacent to an existing or prospective spacing unit containing a non-committed tract or partially committed tract, it shall not be closer than 660 feet to the outer boundary of its spacing unit;

(iv) if the well is located within a non-committed or partially committed spacing unit, it shall not be closer than 660 feet to the outer boundary of its spacing unit;

(v) if the well is located within a participating area but adjacent to an existing or prospective spacing unit that is not within the same participating area, it shall not be closer than 660 feet to the outer boundary of the participating area; and

(v) if the well is located within an exploratory unit area but in an existing or prospective spacing unit that is a non-participating spacing unit, it shall not be closer than 660 feet to the outer boundary of its spacing unit

(3) The operatorfiling an Application for Permit to Drill ("APD") for any well within a federal exploratory unit area that is closer to the outer boundary of its assigned spacing unit than 660 feet shall provide proof in the form of a participating **area** plat that such well meets the requirements **ojRule** 7 (a).

RULE 7 (b): A DMINISTRATIVE EXCEPTIONS

The Division Director, in accordance with Division Rule 104, may administratively grant an exception to the well location requirements of Rule 7 (a) upon **application** to the Division which includes notification by certified mail-return receipt requested to **affected**arties [see Division Rule **1207**.A **(2)**].

RULE <u>7 (c)</u>: ESTABLISHMENT OF THF "HIGH <u>PRODUCTIVITY AREA" AND "LOW</u> <u>PRODUCTIVITYA RFA "</u>

(1) High Productivity Area : There is established within the consolidated boundaries of the Basin Fruitland Coal

(Gas) Pool a "High Productivity Area" consisting of the following-described acreage in both San Juan and Rio Arriba Counties, New Mexico:

Township 29 North, Range 6 West, NMPM

Sections 2 through 8: All Sections 11 and 12: All Sections 17 and 18: All

Township 29 North, Range 7 West, NMPM

Section 1: All Sections 12 and 13: All

Township 30 North, Range 5 West, NMPMSections 19 through 21:All

Sections 29 through 31: All

Township 30 North, Range 6 West, NMPM Sections 5 through 35: All

Township 30 North, Range 7 West, NMPMSections 1 through 18: AllSections 22 through 26:AllSection 36:All

Township 30 North, Range 8 West, NMPM

Sections 1 through 4 : All

Sections 10 through 13: All

Township 30 North, Range 9 West, NMPM Section 2: All

Township 31 North, Range 6 West, NMPMSection 6:AllSection 31:All

Township 31 North, Range 7 West, NMPM

Section 1:	All
Sections 12 thre	ough 14: All
Sections 19 thre	ough 36: All

Township 31 North, Range 8 West, NMPM

Sections 4 through 10: All Sections 13 through 36: All

<u>Township 31 North, Range 9 West, NMPM</u>

Sections 1 through 7:	All
Sections 11 through14:	All
Sections 22 through 27:	All
Sections 34 through 36:	All

Township 32 North, Range 6 West, NMPMSection 19:AllSections 29 through 31:All

Township 32 North, Range 7 West, NMPMSections 23 through 26:AllSection 36:All

Township 32 North, Range 8 West, NMPMSection 19:AllSections 30 through 32:All

Township 32 North, Range 9 West, NMPM

Sections 24 through 26:AllSections 30 through 32:AllSections 35 and 36:All

Township 32 North, Range 10 West, NMPM

Sections 7 through 12: All	/
Sections 14 through 25:	All
Sections 28 through 30:	All

Township 32 North, Range 11 West, NMPM Sections 11 through 13: All Section 24: All

(2) Low Productivity Area : There is established within the consolidated boundaries of the Basin-Fruitland Coal (Gas) Pool a "Low Productivity Area" consisting of that

> acreage within the horizontal limits of the Basin-Fruitland Coal (Gas) Pool that is not included within the High Productivity Area described **above**.

RULE 7 (d): WELIDENSITY

(1) Well density within the "Low Productivity Area": No more than two (2) wells per standard 320-acre gas spacing unit may be located in the "Low Productivity Area" of the pool as follows:

> (i) the OPTIONAL INFILL WELL drilled on an existing spacing unit shall be located in the quarter section not containing the INITIAL Fruitland coal gas well;

> (ii) the plat (Form C-102) accompanying the "Application for Permit to Drill ("APD")"(Form C-101 or federal equivalent) for the optional infill well within an existing spacing unit shall have outlined the boundaries of the unit and shall show the location (well name, footage location, API number) of the initial Fruitland coal gas well plus the proposed infill well; and

> *(iii)* any deviation from the above-described well density requirements shall be authorized only after hearing.

(2) Well <u>density</u> within the "High Productivity Area": Only one well per standard 320-acre spacing unit may be located in the "High Productivity Area" of the pool Any deviation therefrom shall be authorized only after **hearing**."

TT TS FURTHER ORDFRFD HOWEVER THAT!

(5) The following-described area in San Juan County, New Mexico, which is the subject of an appeal pending before the New Mexico Oil Conservation Commission in Case No. 12734, is hereby excluded from the infill development provisions of Rule 7 (a), as

amended by this order:

TOWNSHIP 79 NORTH, RANGE 14 WEST, NMPMSections 4 through 6:All

TOWNSHIP 79 NORTH, RANGE 1 5 WEST, NMPM Section 1: All

TOWNSHIP 30 NORTH, RANGE 14 WEST, NMPMSection 16:AllSections 19 through 21:AllSections 28 through 33: All

TOWNSHIP 30 NORTH, RANGE 1.5 WEST, NMPMSection 36:All.

(6) Development within the area described above in Ordering Paragraph No. (5) shall continue to be governed by the "*SpecialRules and Regulations for the Basin-Fruitland Coal (Gas) Poor* in effect immediately prior to issuance of this Order unless and until otherwise ordered by the Commission.

(7) The infill development provisions of Rule 7 (a), as amended by this order, do not apply to Indian Lands. Until further order, Indian Lands in the Basin-Fruitland Coal (Gas) Pool shall continue to be governed by the "*SpecialRules and Regulations for the Basin-Fruitland Coal (Gas) Pool*" in effect immediately prior to issuance of this Order.

(8) Jurisdiction is hereby retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY Director

SEAL