

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:

CASE NO. 10612
Order No. R-9792

THE APPLICATION OF THE OIL CONSERVATION
DIVISION UPON ITS OWN MOTION FOR AN
ORDER CREATING CERTAIN POOLS IN LEA AND
ROOSEVELT COUNTIES, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on November 19, 1992, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 3rd day of December, 1992, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the San Andres formation, said pool to bear the designation of South Allison-San Andres Pool. Said South Allison-San Andres Pool was discovered by the Layton Enterprises Inc. El Zorro C Federal Well No. 2 located in Unit A of Section 11, Township 9 South, Range 36 East, NMPM. It was completed in the San Andres formation on June 22, 1992. The top of the perforations is at 4,868 feet.

(3) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Delaware formation, said pool to bear the designation of Dagger Lake-Delaware Pool. Said Dagger Lake-Delaware Pool was discovered by the Meridian Oil Inc. Dagger Lake State Well No. 1 located in Unit 0 of Section 5, Township 22 South, Range 33 East, NMPM. It was

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completed in the Delaware formation on September 2, 1992. The top of the perforations is at 4,951 feet.

(4) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Abo formation, said pool to bear the designation of Southeast Lane-Abo Pool. Said Southeast Lane-Abo Pool was discovered by the Purvis Oil Corporation State 15 Well No. 1 located in Unit F of Section 15, Township 10 South, Range 34 East, NMPM. It was completed in the Abo formation on September 15, 1992. The top of the perforations is at 9,014 feet.

(5) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Delaware formation, said pool to bear the designation of Southeast Livingston Ridge-Delaware Pool. Said Southeast Livingston Ridge-Delaware Pool was discovered by the Yates Petroleum Corporation Lotus ALT State Well No. 2 located in Unit G of Section 32, Township 22 South, Range 32 East, NMPM. It was completed in the Delaware formation on October 19, 1992. The top of the perforations is at 8,326 feet.

(6) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Delaware formation, said pool to bear the designation of North Lusk-Delaware Pool. Said North Lusk-Delaware Pool was discovered by the Oryx Energy Company Jennings A Federal Well No. 4 located in Unit J of Section 15, Township 19 South, Range 32 East, NMPM. It was completed in the Delaware formation on December 17, 1991. The top of the perforations is at 6,521 feet.

(7) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Bone Spring formation, said pool to bear the designation of Red Hills-Bone Spring Pool. Said Red Hills-Bone Spring Pool was discovered by the Enron Oil and Gas Company Vaca 13 Federal Well No. 1 located in Unit C of Section 13, Township 25 South, Range 33 East, NMPM. It was completed in the Bone Spring formation on August 12, 1992. The top of the perforations is at 12,230 feet.

(8) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Delaware formation, said pool to bear the designation of South Red Tank-Delaware Pool. Said South Red Tank-Delaware Pool was discovered by the C. W. Trainer Shell State Well No. 1 located in Unit C of Section 36, Township 22 South, Range 32 East, NMPM. It was

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completed in the Delaware formation on October 3, 1991. The top of the perforations is at 5,012 feet.

(9) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Delaware formation, said pool to bear the designation of West Red Tank-Delaware Pool. Said West Red Tank-Delaware Pool was discovered by the Pogo Producing Company Federal 27 Well No. 1 located in Unit N of Section 27, Township 22 South, Range 32 East, NMPM. It was completed in the Delaware formation on July 13, 1992. The top of the perforations is at 8,330 feet.

(10) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Devonian formation, said pool to bear the designation of Northwest Teague-Devonian Pool. Said Northwest Teague-Devonian Pool was discovered by the Texaco Exploration and Production Inc. R. R. Sims Well No. 2 located in Unit N of Section 4, Township 23 South, Range 37 East, NMPM. It was completed in the Devonian formation on July 22, 1992. The top of the perforations is at 7,508 feet.

(11) There is need for the creation of a new pool in Lea County, New Mexico, for the production of gas from the Morrow formation, said pool to bear the designation of West Teas-Morrow Gas Pool. Said West Teas-Morrow Gas Pool was discovered by the Mitchell Energy Corporation Anasazi 9 Federal Well No. 1 located in Unit G of Section 9, Township 20 South, Range 33 East, NMPM. It was completed in the Morrow formation on July 16, 1992. The top of the perforations is at 13,289 feet.

(12) There is need for the creation of a new pool in Roosevelt County, New Mexico, for the production of gas from the San Andres formation, said pool to bear the designation of Tule-San Andres Gas Pool. Said Tule-San Andres Gas Pool was discovered by the Marshall Pipe and Supply Company Stoltenberg Well No. 1 located in Unit F of Section 26, Township 2 South, Range 29 East, NMPM. It was completed in the San Andres formation on October 2, 1992. The top of the perforations is at 2,920 feet.

(13) The effective date of this order and all creations included herein should be December 1, 1992.

IT IS THEREFORE ORDERED THAT:

(a) A new pool in Lea County, New Mexico, classified as an oil pool for San Andres production is hereby created and designated

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as the South Allison-San Andres Pool, consisting of the following described area:

TOWNSHIP 9 SOUTH, RANGE 36 EAST, NMPM
Section 11: NE/4

(b) A new pool in Lea County, New Mexico, classified as an oil pool for Delaware production is hereby created and designated as the Dagger Lake-Delaware Pool, consisting of the following described area:

TOWNSHIP 22 SOUTH, RANGE 33 EAST, NMPM
Section 5: SE/4

(c) A new pool in Lea County, New Mexico, classified as an oil pool for Abo production is hereby created and designated as the Southeast Lane-Abo Pool, consisting of the following described area:

TOWNSHIP 10 SOUTH, RANGE 34 EAST, NMPM
Section 15: NW/4

(d) A new pool in Lea County, New Mexico, classified as an oil pool for Delaware production is hereby created and designated as the Southeast Livingston Ridge-Delaware Pool, consisting of the following described area:

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM
Section 32: NE/4

(e) A new pool in Lea County, New Mexico, classified as an oil pool for Delaware production is hereby created and designated as the North Lusk-Delaware Pool, consisting of the following described area:

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM
Section 15: SE/4

(f) A new pool in Lea County, New Mexico, classified as an oil pool for Bone Spring production is hereby created and designated as the Red Hills-Bone Spring Pool, consisting of the following described area:

TOWNSHIP 25 SOUTH, RANGE 33 EAST, NMPM
Section 13: NW/4

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(g) A new pool in Lea County, New Mexico, classified as an oil pool for Delaware production is hereby created and designated as the South Red Tank-Delaware Pool, consisting of the following described area:

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM
Section 36: NW/4

(h) A new pool in Lea County, New Mexico, classified as an oil pool for Delaware production is hereby created and designated as the West Red Tank-Delaware Pool, consisting of the following described area:

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM
Section 27: SW/4

(i) A new pool in Lea County, New Mexico, classified as an oil pool for Devonian production is hereby created and designated as the Northwest Teague-Devonian Pool, consisting of the following described area:

TOWNSHIP 23 SOUTH, RANGE 37 EAST, NMPM
Section 4: SW/4

(j) A new pool in Lea County, New Mexico, classified as a gas pool for Morrow production is hereby created and designated as the West Teas-Morrow Gas Pool, consisting of the following described area:

TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM
Section 9: N/2

(k) A new pool in Roosevelt County, New Mexico, classified as a gas pool for San Andres production is hereby created and designated as the Tule-San Andres Gas Pool, consisting of the following described area:

TOWNSHIP 2 SOUTH, RANGE 29 EAST, NMPM
Section 26: NW/4

IT IS FURTHER ORDERED THAT:

(1) The effective date of this order and all creations included herein shall be December 1, 1992.

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

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

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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:

CASE NO. 10943
ORDER NO. R-10109

APPLICATION OF ENRON OIL & GAS COMPANY FOR SPECIAL POOL RULES,
LEA COUNTY, NEW MEXICO

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on March 31, 1994, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 26th day of April, 1994 the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) By Division Order No. R-9792, dated December 3, 1992 and made effective December 1, 1992, the Division created and defined the Red Hills-Bone Spring Pool for the production of oil from the Bone Spring formation. The horizontal limits for said pool, as currently designated, comprise the NW/4 of Section 13, Township 25 South, Range 33 East, NMPM, Lea County, New Mexico.
- (3) The Red Hills-Bone Spring Pool is currently governed by the general Statewide Rules and Regulations with development on standard 40-acre spacing and proration units each having a top unit depth bracket allowable of 410 barrels of oil per day and a limiting gas/oil ratio of 2,000 cubic feet of gas per barrel of oil which results in a casinghead gas allowable of 820 MCF per day. This depth bracket allowable was established and set by said Order No. R-9792 to correspond with the top-most perforation in the discovery well for the pool, being the Enron Oil and Gas Company Vaca "13" Federal Well No. 1 located in the NE/4 NW/4 (Unit C) of said Section 13 [see Finding Paragraph No. (7) on page 2 of said Order No. R-9792].

(4) The applicant, Enron Oil and Gas Company ("Enron"), seeks the promulgation of rules and operating procedures for the Red Hills-Bone Spring Pool including provisions for 80-acre spacing and proration units and designated well location requirements whereby wells can be no closer than 330 feet from the outer boundary of a spacing unit.

(5) According to the testimony offered at the hearing, Enron currently operates seven Bone Spring wells that are either located within the subject pool or its production can be attributed to the Red Hills-Bone Spring Pool. These seven wells are the only wells in the immediate area completed in the Bone Spring formation.

(6) The applicant presented production decline curves on all seven wells and the volumetric analysis indicates that each well is capable of draining in excess of 40 acres.

(7) The geological parameters presented in this matter also indicates that one well in this reservoir is capable of adequately draining an 80-acre area.

(8) The accumulation of evidence presented in this case justifies the establishment of 80-acre spacing for the Red Hills-Bone Spring Pool on a permanent basis.

(9) The proposed 330-foot set-back requirement is a departure from the established set-back requirements for pools with 80-acre development, which restricts well locations to an area of 150 feet radius of the center of either quarter-quarter section or lot in the unit. This 150 foot set-back requirement for 80-acre units was established to assure orderly development in a pool and to prevent the grouping of wells in corners where four 80-acre proration units converge.

(10) There was insufficient evidence presented in this matter to support the need for an exception to these established "150 foot" set-back requirements; therefore, this portion of the application should be denied.

(11) Approval of this application with the proposed alterations is in the best interest of conservation, will serve to protect correlative rights, will also serve to prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste.

IT IS THEREFORE ORDERED THAT:

(1) Effective May 1, 1994, special rules and regulations for the Red Hills-Bone Spring Pool, previously defined and classified, and currently consisting of the NW/4 of Section 13, Township 25 South, Range 33 East, NMPM, Lea County, New Mexico, are hereby promulgated as follows:

**SPECIAL RULES AND REGULATIONS
FOR THE
RED HILLS-BONE SPRING POOL**

RULE 1. Each well completed or recompleted in the Red Hill-Bone Spring Pool or in the Bone Spring formation within one mile thereof, and not nearer to or within the limits of another designated Bone Spring pool, shall be spaced, drilled, operated and produced in accordance with the Special Rules hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 80-acres, more or less, consisting of the N/2, S/2, E/2 or W/2 of a governmental quarter section being a legal subdivision of the United States Public Lands Survey.

RULE 3. The Director of the Oil Conservation Division, hereinafter referred to as the "Division", may grant an exception to the requirements of Rule 2 without hearing when an application has been filed for a non-standard unit comprising one or more governmental quarter-quarter sections or lots, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Lands Survey. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Director has received the application.

RULE 4. Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.

RULE 5. The Division Director may grant an exception to the requirements of Rule 4 without hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to a deeper horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Director has received the application.

RULE 6. The allowable for a standard proration unit (79 through 81 acres) shall be subject to an 80-acre depth bracket allowable of 490 barrels of oil per day and a limiting gas/oil ratio of 2,000 cubic feet of gas per barrel of oil which results in a casinghead gas allowable of 980 MCF per day. In the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion. The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

IT IS FURTHER ORDERED THAT:

(2) The locations of all wells presently drilling to or completed in the Red Hills-Bone Spring Pool or in the Bone Spring formation within one mile thereof, and not nearer to or within the limits of another designated Bone Spring pool are hereby approved; the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Division in writing of the name and location of the well within thirty days from the date of this order.

(3) Pursuant to Paragraph A of Section 70-2-18, NMSA (1978), contained in Chapter 271, Laws of 1969, existing wells in the Red Hills-Bone Spring Pool shall have dedicated thereto 80 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C of said Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.

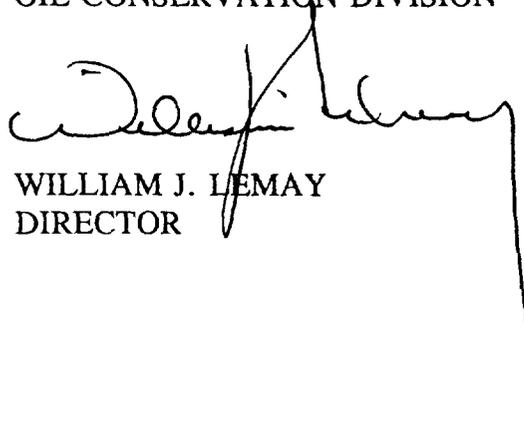
Failure to file new Forms C-102 with the Division dedicating 80 acres to a well or to obtain a non-standard unit approved by the Division within sixty days from the date of this order shall subject the well to cancellation of allowable. Until said Form C-102 has been filed or until a non-standard unit has been approved, and subject to said sixty-day limitation, each well presently drilling to or completed in the Red Hills-Bone Spring Pool or in its corresponding vertical limits as described in Decretory Paragraph No. (1), above, or within one mile thereof shall receive no more than one-half of a standard allowable for the pool.

(4) The special rules and regulations promulgated herein are hereby permanently established. In the event that further development of the subject pool demonstrates that 80-acre spacing is inappropriate, this case may be reopened at the request of any operator in the pool, or by the Division on its own motion.

(5) Jurisdiction of this cause is 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

A handwritten signature in black ink, appearing to read "William J. Lemay", is written over the typed name. The signature is fluid and cursive, with a long vertical stroke extending downwards from the end of the name.

WILLIAM J. LEMAY
DIRECTOR

S E A L

County Lea Pool Red Hills Bone Spring

Sheet 33 East NMPM

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