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April 26, 2001

HAND DELIVERED

Michael E. Stogner
Chief Hearing Officer/Engineer
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: <u>Case 12625</u> Application of Raptor Resources, Inc. for two unorthodox infill gas well locations and simultaneous dedication, Lea County, New Mexico.

<u>Case 12624</u>: Application of Raptor Resources, Inc. for an unorthodox infill gas well location and simultaneous dedication, Lea County, New Mexico.

<u>Case 12625</u>: Application of Raptor Resources, Inc. for an unorthodox infill gas well location and simultaneous dedication, Lea County, New Mexico.

Dear Mr. Stogner:

Pursuant to your request at the April 19, 2001 Examiner hearing on the above referenced applications, enclosed is a new structure map for the proposed State "A" A/C-2 Well No. 79. Mr. Pearcy has confirmed the location of the State "N" Well No. 5 which is the north offset to the proposed location for the State "A" A/C-1 Well No. 79 from the scout ticket and well log heading attached to this structure map. This map accurately reflects the locations of the subject wells and is a revised Raptor Exhibit No. 24. Further, Raptor has checked each of the plats presented at the April 19 hearing and can advise that they accurately depict all well locations.

Michael E. Stogner April 26, 2001 Page 2

Also enclosed for your consideration, in hard copy and on disc, are Raptor Resources, Inc.'s Proposed Orders in each of the above-referenced cases.

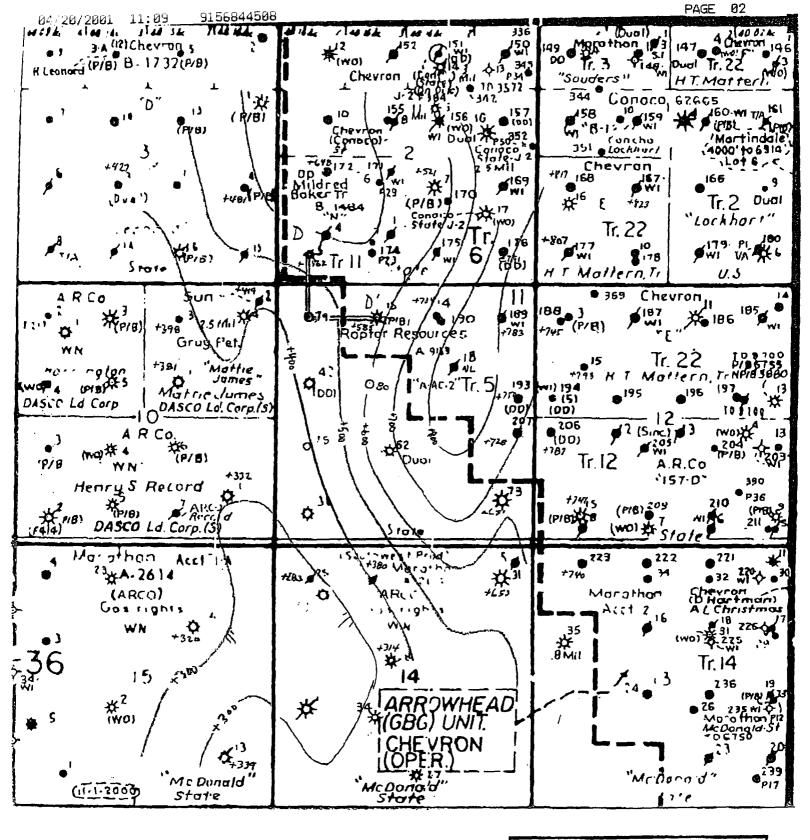
If you need additional information from Raptor for your consideration of these applications, please advise.

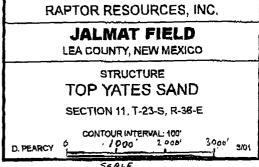
William F. Carr

enc.

cc: John Lawrence

Raptor Resources, Inc. Post Office Box 2342 Midland, Texas 79702





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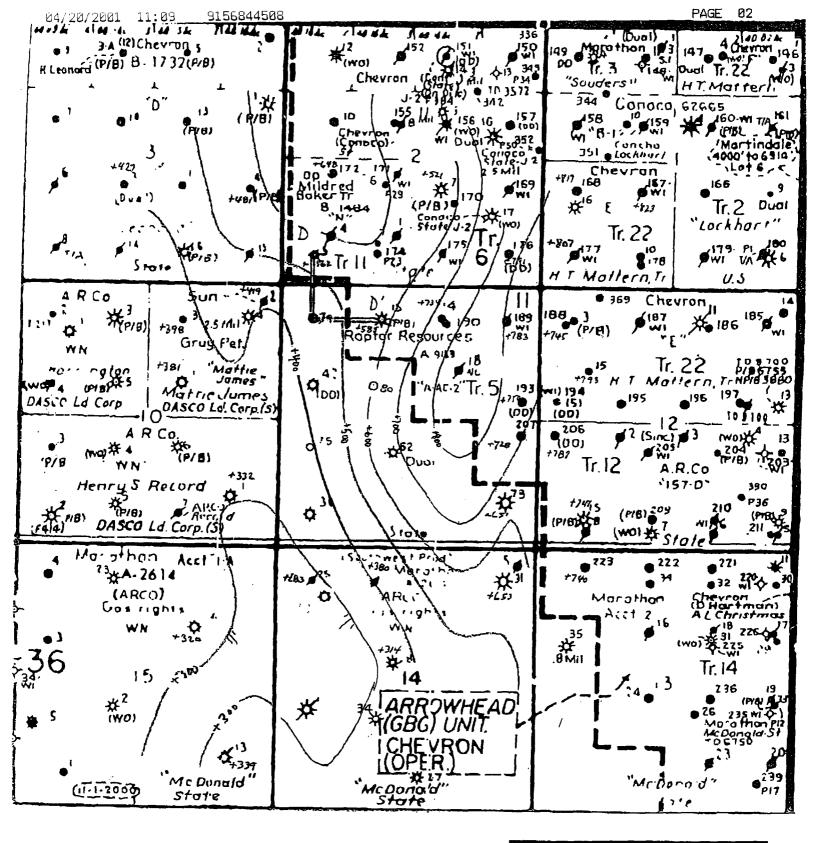
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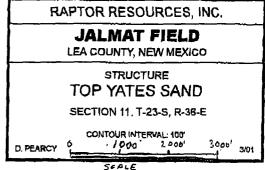
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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

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

CASE NO.	12623
ORDER NO). R

APPLICATION OF RAPTOR RESOURCES, INC. FOR TWO UNORTHODOX INFILL GAS WELL LOCATIONS AND SIMULTANEOUS DEDICATION, LEA COUNTY, NEW MEXICO.

RAPTOR RESOURCES, INC.'S PROPOSED ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on April 19, 2001, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this ____ day of April, 2001, 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) The applicant, Raptor Resources, Inc. ("Raptor") seeks an exception to the well location requirements of the Special Pool Rules and Regulations for the Jalmat Gas Pool, as promulgated by Division Order No. R-8170, as amended, for the following two unorthodox Jalmat infill gas well locations within an existing non-standard 520-acre spacing and proration unit in the Jalmat Gas Pool comprised of S/2 NE/4, N/2 SE/4, and SE/4 SE/4 of Section 9 and the W/2 of Section 10, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico:

- A. The Raptor State "A" A/C-1 Well No. 130 to be drilled at an unorthodox infill gas location 660 feet from the South and East lines (Unit P) of Section 9, and
- B. The Raptor State "A" A/C-1 Well No. 131 to be drilled at an unorthodox infill gas well location 1980 feet from the South line and 660 feet from the East line (Unit I) of Section 9.

The applicant, pursuant to the rules governing the Jalmat Gas Pool and the Stipulated Declaratory Judgment issued by the First Judicial District Court in Santa Fe County, New Mexico on December 15, 2000, in <u>Hartman v. Oil Conservation Division</u>, Cause No. D-0101-CV-9902927 ("the Stipulated Declaratory Judgment"), also seeks to simultaneously dedicate Jalmat production to this 520-acre non-standard unit from all Jalmat gas wells on this non-standard gas spacing and proration unit.

- (3) By Division Order No. R-9073, dated December 14, 1989, as amended by Division Order No. R-9073-B, a 520-acre spacing and proration unit in the Jalmat Gas Pool comprised of the S/2 NE/4, N/2 SE/4, and SE/4 SE/4 of Section 9 and the W/2 of Section 10 was approved (Raptor Exhibit No. 8). The following Jalmat gas wells have been dedicated to this spacing and proration unit:
 - A. State "A" A/C-1 Well No. 37 (API No. 30-025-09290), located at a standard gas well location 1650 feet from the North and West lines (Unit F) of Section 10 (See, Order No. R-9073, dated December 14, 1989, as amended by Order No. R-9073-B);
 - B. State "A" A/C-1 Well No. 38 (API No. 30-025-09291), located at a standard gas well location 990 feet from the South and West lines (Unit M) of Section 10 (See, Order No. R-9073, dated December 14, 1989, as amended by Order No. R-9073-B);
 - C. State "A" A/C-1 Well No. 49 (API No. 30-025-09292), located at an unorthodox gas well location 660 feet from the North and West lines (Unit D) of Section 10 (NSL-2729, dated December 7, 1989);
 - D. State "A" A/C-1 Well No. 55 (API No. 30-025-09293), located at an unorthodox gas well location 1980 feet from the North line and 660 feet from the West line (Unit E) of Section 10 (NSL-4371 (SD));

- E. State "A" A/C-1 Well No. 56 (API No. 30-025-09294), located at a standard location 1980 feet from the South line and 660 feet from the West line (Unit L) of Section 10 (plugged and abandoned);
- F. State "A" A/C-1 Well No. 81 (API No. 30-025-09295), located at an unorthodox gas well location 660 feet from the North line and 1980 feet from the West line (Unit C) of Section 10 (NSL-4371 (SD) dated October 25, 1999);
- G. State "A" A/C-1 Well No. 86 (API No. 30-025-09296), located at an unorthodox gas well location 1980 feet from the North and West lines of Section 10 (temporarily abandoned);
- H. State "A" A/C-1 Well No. 88 (API No. 30-025-09297), located at an unorthodox gas well location 1980 feet from the South and West lines (Unit K) of Section 10 (NSL-2727, dated December 7, 1989, which is temporarily abandoned);
- I. State "A" A/C-1 Well No. 89 (API No. 30-025-09298), located at an unorthodox gas well location 660 feet from the South line and 1980 feet from the West line (Unit N) of Section 10 (NSL-2731, December 7, 1989); and
- J. State "A" A/C-1 Well No. 100 (API No. 30-025-09279), located at an unorthodox gas well location 1980 feet from the North line and 990 feet from the East line of Section 9 (plugged and abandoned).
- (4) Raptor acquired interests in the Jalmat Gas Pool in 1998 and embarked on a redevelopment program which included the drilling of 14 wells during calendar years 1999 and 2000. The results of this program demonstrate that there are substantial recoverable reserves in the Jalmat Gas Pool which cannot be recovered by the existing wells in this pool. (Raptor Exhibit Nos. 2, 4, 5 and 6; Testimony of Lawrence).

NOTICE

- (5) The Stipulated Declaratory Judgment provides in part that:
 - A. "The approval of drilling an additional well or wells on a spacing unit ("infill drilling") in the Eumont or Jalmat Gas Pools shall be administered in a manner that affords due process to affected parties, including notice, an opportunity to object and in the case of

Case No. 12623
Order No. R-
Page 4

objection a right to public hearing in accordance with Division Rule 104.

- B. In accordance with those principles, it is provided that in the event an operator files an application with the Division for approval of an additional well or wells in the Eumont Gas Pool or the Jalmat Gas Pool, which if allowed would result in spacing of less than 160 acres per well on a proration unit, the infill well or wells may be permitted only after notice pursuant to Division Rule 1207A(2) and opportunity for hearing for affected persons."
- (6) Raptor presented evidence that showed that it notified all affected persons of this application in accordance with Division Rules 104 and 1207A(2) by providing a copy of this application by certified mail to all offsetting Division designated operators and working interest owners in adjoining spacing units. Further, Raptor testified in all offsetting spacing units which it operates, all working interest ownership is identical to the ownership in the subject spacing and proration unit except for Hal J. Rasmussen Operating Inc., owner of working interest in Section 17, Township 23 South, Range 36 East, NMPM, and that all working interest owners have been notified of this application. (Raptor Exhibit 11; Testimony of Keithly).

FINDING: Raptor provided notice of this application in accordance with the provisions of the Stipulated Declaratory Judgment and Division Rules 104 and 1207A(2).

(7) No interest owner or offset operator objected to this application or appeared at the hearing on this application.

NEED FOR ADDITIONAL JALMAT GAS WELLS

- (8) The Stipulated Declaratory Judgment also provides that an application for approval of an additional well or wells in the Jalmat Gas Pool, which if allowed would result in spacing of less than 160 acres per well on a proration unit "...must be supported by evidence that the additional well or wells are necessary to efficiently and economically drain the proration unit, will prevent waste and protect correlative rights" (emphasis added).
 - (9) Raptor presented geological evidence which shows:
 - A. there is substantial geologic discontinuity in the Jalmat Gas Pool under the E/2 SE/4 of Section 9 on which these proposed infill wells are to be drilled;

- B. with only one well drilled on each 160-acre spacing unit, sands containing producible reserves can be missed and the reserves left in the ground; and
- C. Development of the Jalmat Gas Pool on less than 160-acre spacing is needed to assure that as many producible sands as possible are intersected by a wellbore. (Raptor Exhibits 18 through 21; Testimony of Pearcy).
- (10) The engineering evidence presented by Raptor showed that substantial reserves have not been recovered by existing wells due to inadequate completion practices in older wells including inadequate treatment of perforated intervals and incomplete perforating of productive intervals which has resulted in many of the productive intervals in the Yates and Seven Rivers formations, as well as other productive zones through the pool, have been by passed and not produced. (See, Raptor Exhibit 28 through 32, Testimony of Lawrence).
- (11) Without redevelopment, the properties in the Raptor 1999 and 2000 program would have produced approximately 3.1 million cubic feet of gas per day. However, as a result of the Raptor redevelopment program, these properties now produce at more than twice that rate. (*Testimony of Lawrence*).
- (12) Raptor's engineering evidence also included information on the wells located on all 40-acre tracts offsetting the State "A" A/C-1 Well Nos. 130 and 131. Although one well produced substantial oil and gas from a 40-acre tract offsetting the State "A" A/C-1 Well No. 130, the geologic evidence on the area shows that the Yates and Seven River formations are very heterogeneous in this area and a well in the NE/4 SE/4 of Section 9 is needed to produce the remaining recoverable reserves under this acreage. This data also shows there is only one producing well offsetting the State "A" A/C-1 Well No. 131 and that it produces at marginal rates and cannot drain the SE/4 SE/4 of Section 9. (Raptor Exhibits 28 and 29; Testimony of Lawrence).
- (13) The drilling of the Raptor Resources, Inc. State "A" A/C-1 Well Nos. 130 and 131 will enable applicant to recover reserves which otherwise will not be recovered.
- (14) Raptor also testified that due to the heterogeneous nature of the Yates and Seven Rivers Formations and the limited offsetting production, both the State "A" A/C-1 Well Nos. 130 and 131 are needed to efficiently drain remaining reserves from this proration unit (Testimony of Pearcy and Lawrence).

Case No. 12623	
Order No. R	
Page 6	

FINDING: The State "A" A/C-1 Well Nos. 130 and 131 are necessary to efficiently drain remaining recoverable reserves from this proration unit.

(15) Raptor presented economic information on its redevelopment program which showed that it will obtain an acceptable economic return from the new infill Jalmat wells it drills in Jalmat Gas Pool. (Raptor Exhibit No. 7, Testimony of Lawrence).

FINDING: The State "A" A/C-1 Well Nos. 130 and 131 will economically drain recoverable reserves from this proration unit.

FINDING: Raptor has met the conditions of the Stipulated Declaratory Judgment for applications for approval of additional wells in the Jalmat Gas Pool which if allowed would result in spacing of less than 160 acres per well on a proration unit.

(16) Raptor testified that to be able to selectively perforate individual zones within the Jalmat Gas Pool which have not previously been produced to depletion that new wells need to be drilled instead of attempting recompletions old existing wellbores. (See, Log of Raptor State "A" A/C-1 Well No. 127 on Raptor Exhibit No. 19, Testimony of Pearcy and Lawrence).

UNORTHODOX WELL LOCATIONS

- (17) The Special Pool Rules and Regulations for the Jalmat Gas Pool provide for wells on 520-acre spacing and proration units to be located no closer than 990 feet from the outer boundary of the spacing unit (Rule 4(b)2, Order No. R-8170). Accordingly, the State "A" A/C-1 Well Nos. 130 and 131 are too close to the outer boundary of the acreage dedicated thereto than permitted by the Special Rules and Regulations for the Jalmat Gas Pool.
- (18) Raptor testified that to intersect portions of the reservoir not previously drained, well locations must be determined based upon the geologic and reservoir characteristics at the proposed location and an engineering evaluation of the prior completions and past and current production from offset wells. (Testimony of Lawrence).
- (19) The geological and engineering data presented in support of the well locations for the State "A" A/C-1 Well Nos. 130 and 131 demonstrate that the proposed unorthodox well locations are necessary to enable the applicant to recover remaining reserves under this spacing and proration unit thereby preventing waste.

(20) The ownership of all acreage immediately offsetting the proposed unorthodox gas well locations for the State "A" A/C-1 Well Nos. 130 and 131 is identical with the ownership of the acreage within this 520-acre non standard spacing unit and therefore the correlative rights of no interest owner will be impaired by approval of these locations.

FINDING: The proposed unorthodox gas well locations for the State "A" A/C-1 Well Nos. 130 and 131 will protect correlative rights and prevent waste and should be approved.

SIMULTANEOUS DEDICATION

- (21) All wells capable of producing Jalmat reserves from the subject spacing and proration unit are necessary to recover the remaining reserves under this unit.
- (22) To efficiently produce the remaining recoverable reserves from the Jalmat Gas Pool under this 520-acre nonstandard spacing and proration unit, all Jalmat gas production from the State "A" A/C-1 Well Nos. 37, 38, 49, 55, 81, 86, 88, 89, 130, and 131 should be simultaneously dedicated to this spacing and proration unit.
- FINDING: The application for the simultaneous dedication of the State "A" A/C-1 Well Nos. 37, 38, 49, 55, 81, 86, 88, 89, 130, and 131 to the subject 520-acre non-standard gas spacing and proration unit should be approved.
- (23) Approval of this application and the drilling of the Raptor Resources, Inc. State "A" A/C-1 Well Nos. 130 and 131 will result in the recovery of hydrocarbons which will otherwise not be recovered thereby preventing waste and will be in the best interest of conservation and protection of correlative rights.
- FINDING: The drilling of the Raptor Resources, Inc. State "A" A/C-1 Well No. 130 at an unorthodox infill location 660 feet from the South and East lines of Section 9 and the Raptor Resources, Inc. State "A" A/C-1 Well No. 131 at an unorthodox infill location 1980 feet from the South line and 660 feet from the East line of Section 9 are necessary to efficiently and economically drain the 520-acre spacing and proration unit comprised of S/2 NE/4, N/2 SE/4, and SE/4 SE/4 of Section 9 and the W/2 of Section 10, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico and should be approved.

Case No. 12623	
Order No. R	
Page 8	

IT IS THEREFORE ORDERED THAT:

- (1) The application of Raptor Resources, Inc. ("Raptor") for an exception to the well location requirements of the Special Pool Rules and Regulations for the Jalmat Gas Pool, as promulgated by Division Order No. R-8170, as amended, for the Raptor State "A" A/C-1 Well No. 130 to be drilled at an unorthodox infill gas location 660 feet from the South and East lines of Section 9 and the Raptor State "A" A/C-1 Well No. 131 to be drilled at an unorthodox infill gas well location 1980 feet from the South line and 660 feet from the East line of Section 9 within an existing non-standard 520-acre spacing and proration unit in the Jalmat Gas Pool comprised of S/2 NE/4, N/2 SE/4, and SE/4 SE/4 of Section 9 and the W/2 of Section 10, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico is hereby granted.
- (2) Applicant, pursuant to the rules governing the Jalmat Gas Pool and the Stipulated Declaratory Judgment issued by the First Judicial District Court in Santa Fe County, New Mexico, on December 15, 2000, is authorized to simultaneously dedicate Jalmat production to this 520-acre non-standard unit from all nine of the above described State "A" A/C-1 Well Nos. 37, 38, 49, 55, 81, 86, 88, 89, 130, and 131.
- (3) 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