. **Amoco Production Company (USA)** Houston Region-West 501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253 R. G. Smith Regional Engineering Manager-West ALL OCT 20 1962 OIL CONSERVATION DIVISION SANTA FE Not down F Journal OH 55 20 11 CONSERVATION DIVISION October 26, 1982 File: JCA-986.51 NM-3331 Re: Request for Administrative Approval Unorthodox Location Federal "CY" Com No. 1 S/2 Section 18, T-22-S, R-23 Eddy County, New Mexico State of New Mexico Energy and Minerals Department **Oil Conservation Division** P. 0. Box 2088 Santa Fe, NM 87501 Attention: Mr. Joe D. Ramey (3) Gentlemen: Amoco Production Company (USA) hereby makes application for admini-strative approval of an unorthodox gas well location under the provisions stipulated in Statewide Rule 104(F). The following is presented in support thereof: Amoco seeks approval of this unor shodox gas well location for its (1)

- Federal "CY" Com No. 1 (i.e., "the subject well") which is proposed to be drilled <u>660' FSL X 990' FEL</u> of Section 18, Township-22-South, Range-23-East in Eddy County, New Mexico (i.e., "the subject location").
- (2) The subject well is proposed to be drilled to a total depth of $\pm 9,450$ ' in order to test the Morrow formation along with another potentially gas bearing horizon in the Upper Pennsylvanian, the Cisco.

State of New Mexico October 26, 1982 Page 2

- (3) Amoco proposes to dedicate the S/2 of Section 18 to the subject well in order to form a 320 acre (horizontal ½ section) proration unit (i.e., "the subject spacing unit").
- (4) The necessity of the subject location is due to geological conditions. These conditions are presented in the exhibits attached hereto.
- (5) In support of this application, it is accompanied by the following exhibits:
 - (a) Exhibit No. 1 is a copy of the county ownership map which depicts the ownership of all leases and the wells completed thereon offsetting the subject spacing unit.
 - (b) Exhibit No. 2 is a certified Form C-102 (i.e., "Well Location and Acreage Dedication Plat") showing the surveyed well location, the subject spacing unit and diversity of leasehold ownership within that spacing unit. Amoco Production Company holds the lease on the 40 tract in the SW/4 of the SE/4 of Section 18 while Coquina Oil Corporation is the lessee of the remainder of the acreage in the subject unit. The United States of America is the lessor for all acreage in said unit.
 - (c) Exhibit No. 3 is a discussion of the reservoir characteristics and geological interpretation which justify the necessity of the subject unorthodox location.
 - (d) Exhibit No. 4 is a plat of the area showing the cumulative production of offset producers.
 - (e) Exhibit No. 5 is a geological structure map contoured on the top of the Cisco.
 - (f) Exhibit No. 6 is a geological cross-section depicting the projected structural position of the subject well.
 - (g) Exhibit No. 7 is a list of all operators of proration or spacing units offsetting the subject unit.
- (6) Amoco, as Applicant, certifies that as of the date of this application, a copy of the same and a request for waiver of objection was forwarded by certified mail to each offset

State of New Mexico October 26, 1982 Page 3



operator listed in Exhibit No. 7. Therefore, the Applicant requests that action be taken on this application upon receipt of waivers from said offset operators or within 20 days of the receipt of this application if no objections are entered.

In summary, Amoco Production Company (USA), as Applicant in this case, hereby requests administrative approval for an unorthodox gas well location in the S/2 of Section 18, Township-22-South, Range-23-East of Eddy County, New Mexico. This proposed location will facilitate the drilling of a ±13,600' Morrow formation test and thereby afford the Applicant the opportunity to produce its just and equitable share of hydrocarbons from the Morrow and/or any other Pennsylvanian formations underlying its property. The necessity of the unorthodox location results from geological conditions which are documented in the geological discussion contained herein. It is imperative the subject well be drilled as close to the east lease line as possible in order to assure maximum probability of encountering the Pennsylvanian horizons in a structurally favorable position, thereby affording the best chance of establishing commercial production. Therefore, approval of this application will prevent the economic loss caused by drilling unnecessary wells and is otherwise in the interest of conservation by the prevention of waste and protection of correlative rights.

If there are any question concerning this matter, please contact Larry Sheppard (713/556-3928) of our Houston Region - West Proration Section.

Yours very truly,

R. J. Smith

LWS/cag 1190/J

Attachment

cc: Chevron USA, Inc. 700 South Colorado Blvd. P. O. Box 599 Denver, CO 80201 Chevron USA, Inc. 800 Wall Towers East Building P. O. Box 1660 Midland, TX 79702 State of New Mexico October 26, 1982 Page 4

> Coquina Oil Corporation 400 North Marienfeld P. O. Drawer 2960 Midland, TX 79702

Monsanto Company 1330 Midland National Bank Tower 500 West Texas Midland, TX 79701

State of New Mexico Energy and Mineral Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240 Inexco Oil Company 1100 Milam Building Suite 1900 Houston, TX 77002

Mineral Management Services P. O. Drawer 1897 Roswell, NM 88201

Mineral Management Services 505 Marquette Avenue NW #815 Albuquerque, NM 87102

Attention: Mr. Gene F. Daniels

OFFSET OPERATORS

NORTH OFFSET

Coquina - No Wells

NORTHWEST AND WEST OFFSET

Inexco - No Wells

SOUTHWEST OFFSET

Monsanto - No Wells

SOUTH OFFSET

Coquina - No Wells

SOUTHEAST OFFSET

Chevron - No Wells

EAST AND NORTHEAST OFFSET

Chevron Bogle Flats Unit No. 9 Indian Basin Upper Penn Field

Amoco Production Company

EXHIBIT	NO7
DOCKET	NON/A
DATE	10/26/82

LWS/cag 1190/L

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NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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Form C-102 Supersedes C-128 Effective 1-1-65

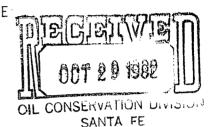
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Amoco Production Company Houston, Texas

September 24, 1982

Re: Justification of Location Federal "CY" Com. No. 1 660' FSL & 990' FEL Sec. 18, T-22-S, R-23-E Indian Basin Field Eddy County, New Mexico



Memorandum To File

The structure of the top of the Cisco Formation is shown on Exhibit 5. A large anticlinal feature trends south-southwesterly from the Indian Basin field. This anticline was subsequently cut by a north-south trending normal fault, with the west side being downthrown. The proposed well is located near the crest of the structure on the downthrown (west) side of the fault.

The Morrow and Cisco Formations are the producing horizons in the Indian Basin field. Production is structurally controlled. A discussion of the Morrow and the Cisco follows.

- <u>Morrow</u>: Morrow production is from a number of sand bodies which have proven to be wet in a down-dip direction. Therefore, a location at the crest of the structure should provide the best possibility of finding commercial quantities of hydrocarbon gas.
- <u>Cisco</u>: The Cisco Formation produces from a clean, porous carbonate near the top of the formation. This clean carbonate may be traced over the entire field with little variation. Structure is essential for production from the Cisco. As may be seen from the production and structure maps (Exhibits 4 and 5), production falls off rapidly in a down-dip direction. Therefore, a location at the crest of the structure is extremely important.

Conclusions

An unorthodox location of 660' FSL and 990' FEL results in the best structural position to encounter productive Morrow and Cisco sections.

Amoco Production Company

EXHIBIT	NO	3	
DOCKET			
DATE	-	10/26/8	2

Steve Terry

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ST/cdb

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Amoco Production Company (USA)

Houston Region–West 500 Jefferson Building Post Office Box 3092 Houston, Texas 77001

R. G. Smith Regional Engineering Manager-West

October 29, 1982

File: JCA-986.51-3338

Re: Simultaneous Acreage Dedication and Unorthodox Drilling Location State "A-6" No. 2 Lea County, New Mexico

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

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Gentlemen:

Doyle Hartman has filed an application for simultaneous dedication of 160 acres consisting of the SW/4, Section 6, T-19-S, R-37-E, Lea County, New Mexico to be dedicated to their existing State "A-6" No. 1 and State "A-6" No. 2 and for authority to drill State "A-6" Well No. 2 at an unorthodox Eumont gas location 330' FSL and 1650' FWL of Section 6.

As an offset operator Amoco Production Company has no objection to Doyle Hartman's application as stated above.

Yours very truly,

MLC/sm

cc: Doyle Hartman P. O. Box 10426 Midland, TX 79702

IOCT 2 9 1982

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Amoco Production Company (USA)

Houston Region–West 500 Jefferson Building Post Office Box 3092 Houston, Texas 77001

R. G. Smith Regional Engineering Manager-West

October 27, 1982

File: JCA-986.51NM-3336

Re: Request for Waiver of Objection Unorthodox Location Federal "CY" Com No. 1 Wildcat Morrow Eddy County, New Mexico

Sec. 14 ΩIL C. U.S. Bruffin 12

Addressee List Attached

Gentlemen:

Amoco Production Company (USA) has made application with the State of New Mexico Oil Conservation Division for administrative approval of an unorthodox gas well location. A copy of this application is attached for your information. In order to expedite the approval of the said application, we request you, as an offset operator, provide a waiver of objection in regards to this matter. To do this, please sign one copy of this letter and forward to:

> The State of New Mexico Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey

Your cooperation in this matter is appreciated. If we can be of any assistance, please contact Larry Sheppard (713/556-3928) in our Houston Region-West Proration Section.

Yours very truly,

J. Smithy wes

LWS/mes 886/J

Attachment

File: JCA-986.51NM-3336 October 27, 1982 Page 2

We the undersigned, as an offset operator to the proposed unorthodox location, hereby waiver any objection to the same.

onporation Company: Coguira Authorized By: 7 . Date: _____ 82

ADDRESSEE LIST FOR OFFSET OPERATORS

Chevron USA, Inc. 700 South Colorado Blvd. P. O. Box 599 Denver, CO 80201

Chevron USA, Inc. 800 Wall Towers East Building P. O. Box 1660 Midland, TX 79702

Coquina Oil Corporation 400 North Marienfeld P. O. Drawer 2960 Midland, TX 79702

Inexco Oil Company 1100 Milam Building Suite 1900 Houston, TX 77002

Monsanto Company 1330 Midland National Bank Tower 500 West Texas Midland, TX 79701



October 29, 1982

Amoco Production Company (USA) P.O. Box 3092 Houston, Texas 77001

Att: R.G. Smith Regional Engineering

OIL CONSERVALIUN UNION SANTA FE

医脱血 计特殊化力的编制 普

Re: Unorthodox Loxation Federal CY Com No. 1 Wildcat Morrow Eddy County, New Mexico N. Arroyo NM 148

Gentlemen:

Please be advised that Inexco's leasehold interest in the area near the referenced location has expired and returned to federal inventory. However, had we still owned an interest we would have had no objections to your location.

Very truly yours, . . .T Tacconi

Ared Landman

LJT/bkb

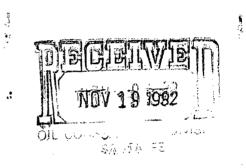
CC/ State of New Mexico Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87501 Att: Joe D. Ramey File: JCA-986.51NM-3336 October 27, 1982 Page 2

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We the undersigned, as an offset operator to the proposed unorthodox location, hereby waiver any objection to the same.

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Company:	MONSANTO OIL COMPANY	
Authorized	By: 22 Brown	
Date:	11/16/82	



File: JCA-986.51NM-3336 October 27, 1982 Page 2

We the undersigned, as an offset operator to the proposed unorthodox location, hereby waiver any objection to the same.

Company CHEVRON 1/2 Authorized By: W. A. GOUDEAU Date: AREA SUPERINTENDENS

NDY D ULE BRINSGIWATIUN UNISION SANTA FE

- 2015 A.AP (1997)