

## Stogner, Michael

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**From:** Stogner, Michael  
**Sent:** Tuesday, August 31, 2004 10:41 AM  
**To:** Davidson, Florene; Martinez, Sally  
**Subject:** Case 13343

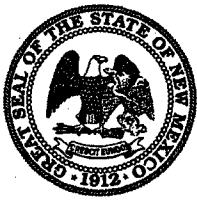
Case 13343 is all ready set for the Sept. 16th docket; however, there was a request to change the well location and a need to add another matter to this case. Attached is an amended advertisement for this case to be reset to the Oct. 7th docket. Thanks.



Arch.02.doc

**CASE NO. 13343: Continued from September 16, 2004 and Readvertised.**

**Application of Arch Petroleum, Inc. for a non-standard gas spacing unit and an unorthodox gas well location in the Jalmat Gas Pool and an unorthodox Langlie-Mattix oil well location, Lea County, New Mexico.** Applicant seeks to establish a non-standard 160-acre gas spacing unit within the Jalmat Gas Pool (79240) comprising the SW/4 of section 16, Township 23 South, Range 37 East, which is located approximately nine miles south of Eunice, New Mexico. This unit is to be dedicated to the Applicant's proposed Kelly State Well No. 5 to be drilled at an unorthodox gas well location 910 feet from the South line and 1230 feet from the West line (Unit M) of Section 16. **Further**, the proposed Kelly State Well No. 5 is also to be completed in the Langlie-Mattix (Seven Rivers-Queen-Grayburg) Pool (37240) within a standard 40-acre oil spacing and proration unit comprising the SW/4 SW/4 of section 16 at an unorthodox oil well therein.



13343

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**August 31, 2004**

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

**Arch Petroleum, Inc.**  
c/o **James Bruce**  
**P. O. Box 1056**  
**Santa Fe, New Mexico 87504**

**RE:** Your two letters on behalf of Arch Petroleum, Inc. dated August 25, 2004, requesting: (i) that Division Administrative Order NSL-5099 be amended; and (ii) your application for a non-standard 160-acre Jalmat Gas spacing and proration unit and an unorthodox gas well location that was set for hearing on September 16, 2004 as Case No. 13343 also be amended to reflect a location change for the well that is the subject to both matters.

Dear Mr. Bruce:

By Division Administrative Order NSL-5099, dated August 20, 2004, Arch Petroleum, Inc. received authorization to drill its proposed Kelly State Well No. 5 at an unorthodox oil well location in the Langlie-Mattix (Seven Rivers-Queen-Grayburg) Pool (37240) 1310 feet from the South and West lines (Unit M) of Section 16, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico. The SW/4 SW/4 of Section 16 would be dedicated to this well in order to form a standard 40-acre oil spacing and proration unit for the Langlie-Mattix Pool. Now, Arch Petroleum, Inc. through your letter dated August 25, 2004 is requesting that Division Administrative Order NSL-5099 be amended to show a new location for this well, 910 feet from the South line and 1230 feet from the West line (Unit M) of Section 16; a move that is 400 feet further south and 80 feet to the west from the original site and for no apparent reason. The Administrative order in question was approved for a specific location based on drainage issues.

In order to consider the move of this well in the Langlie-Mattix Pool and the amendment to the Jalmat issues all ready set for hearing: (i) Division Administrative Order NSL-5099 will be placed in abeyance until further notice; and (ii) Case No. 13343 will be continued and readvertised to the hearing scheduled for October 7, 2004. In order to further expatiate this matter I have prepared the following amended advertisement in this matter:

***"Application of Arch Petroleum, Inc. for a non-standard gas spacing unit and an unorthodox gas well location in the Jalmat Gas Pool and an unorthodox Langlie-Mattix oil well location, Lea County, New Mexico. Applicant seeks to establish a non-standard 160-acre gas spacing unit within the Jalmat Gas Pool (79240) comprising the SW/4 of section 16, Township 23 South, Range 37 East, which is located approximately nine miles south of Eunice, New Mexico. This unit is to be dedicated to the Applicant's proposed Kelly State Well No. 5 to be drilled at an unorthodox gas well location 910 feet from the South line and 1230 feet from the West line (Unit M) of Section 16. Further, the proposed Kelly State Well No. 5 is also to be completed in the Langlie-Mattix (Seven Rivers-Queen-Grayburg) Pool (37240) within a standard 40-acre oil spacing and proration unit comprising the SW/4 SW/4 of section 16 at an unorthodox oil well therein."***

**Arch Petroleum, Inc.**  
**August 31, 2004**  
**Page 2**

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Should you have any questions concerning this matter, please contact me in Santa Fe at (505) 476-3465.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael E. Stogner", with a long horizontal flourish extending to the right.

Michael E. Stogner  
Chief Hearing Officer/Engineer

MES/ms

cc: New Mexico Oil Conservation Division – Hobbs  
New Mexico State Land Office – Santa Fe  
J. E. Gallegos, Legal Counsel for Fulfer Oil and Cattle Co., LLC – Santa Fe  
Ms. Florene Davidson, Staff Specialist – NMOCD, Santa Fe  
File: NSL-5099

**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

jamesbruc@aol.com

RECEIVED

AUG 26 2004

OIL CONSERVATION  
DIVISION

August 25, 2004

Michael E. Stogner  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: Pending application of Arch Petroleum Inc. for a 160 acre non-standard gas spacing and proration unit, and an unorthodox gas well location, in the Jalmat Gas Pool:

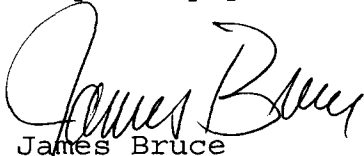
Well: Kelly State Well No. 5  
Well Unit: SW¼ §16, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico

Dear Mr. Stogner:

The above application (copy enclosed) requested a location 1310 feet FSL and FWL of Section 16. Subsequent to filing the application, the location was moved to 910 feet FSL and 1230 feet FWL of Section 16. A Form C-102 is enclosed with this letter. Therefore, Arch Petroleum Inc. amends the application accordingly.

The well is moving toward a more orthodox location, and thus applicant does not believe that additional notice to offsets is required. However, if the Division believes otherwise please let us know and we will comply.

Very truly yours,



James Bruce

Attorney for Arch Petroleum Inc.

DISTRICT I  
P.O. Box 1880, Hobbs, NM 88241-1880

DISTRICT II  
P.O. Drawer 80, Artesia, NM 88211-0719

DISTRICT III  
1000 Rio Brazos Rd., Artesia, NM 87410

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 37240	Pool Name Langlie Mattix 7 Rvrs Queen
Property Code 33464	Property Name KELLY STATE	Well Number 5
OCRID No. 000962	Operator Name ARCH PETROLEUM, INC.	Elevation 3315'

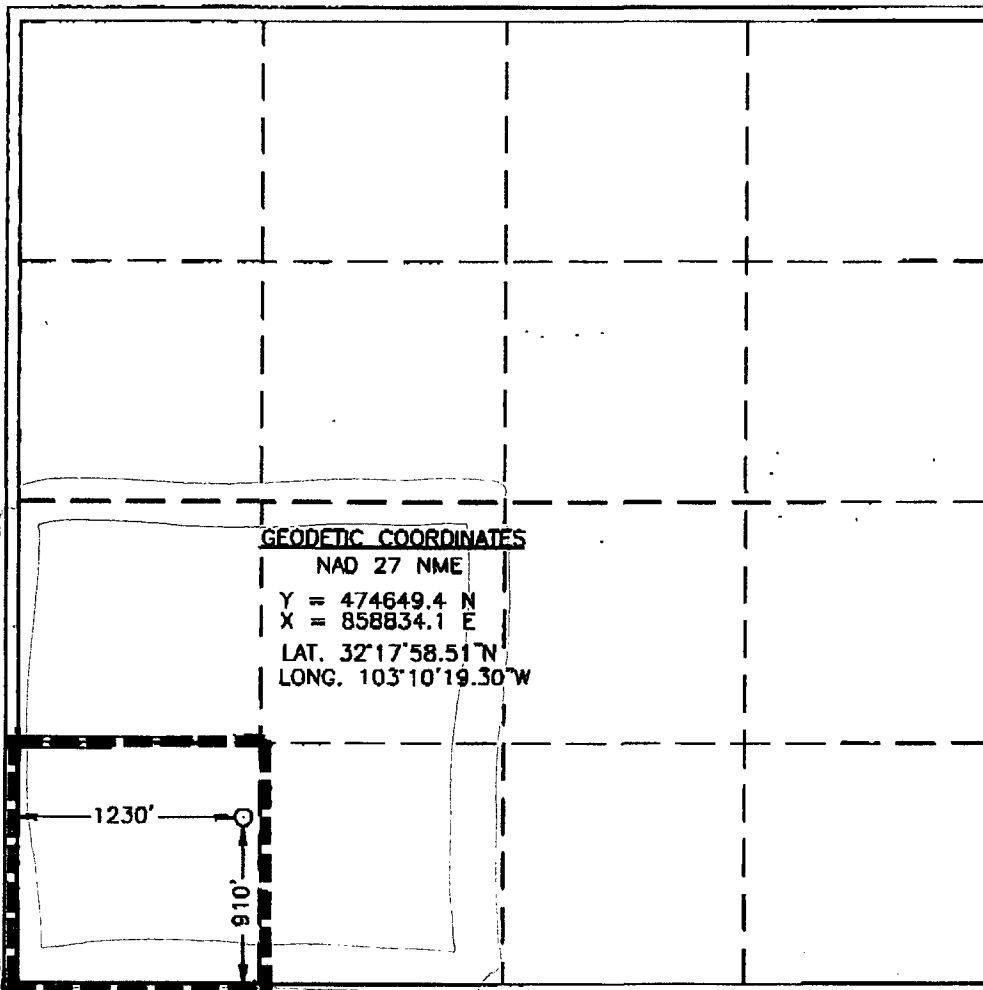
Surface Location

UL or lot No. M	Section 16	Township 23-S	Range 37-E	Lot Idn	Feet from the 910	North/South line SOUTH	Feet from the 1230	East/West line WEST	County LEA
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information  
contained herein is true and complete to the  
best of my knowledge and belief.

*Cathy Wright*  
Signature

Cathy Wright  
Printed Name

Sr. Operation Tech  
Title

08/09/04  
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown  
on this plat was plotted from field notes of  
actual surveys made by me or under my  
supervision, and that the same is true and  
correct to the best of my belief.

March 31, 2004

Date Surveyed A.W.B

Signature of Registered Professional Surveyor

*Gary A. Eason*  
NEW MEXICO  
04.11.0380  
4/6/04

Certificate No. GARY EASON 12841  
REGISTERED PROFESSIONAL SURVEYOR

COPY

July 30, 2004

Hand Delivered

Michael E. Stogner  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Dear Mr. Stogner:

Pursuant to Division Order No. R-8170-P, Arch Petroleum Inc. applies for a 160 acre non-standard gas spacing and proration unit, and an unorthodox gas well location, in the Jalmat Gas Pool for the following acreage:

<u>Well:</u>	Kelly State Well No. 5
<u>Location:</u>	1310 feet FSL & 1310 feet FWL
<u>Well Unit:</u>	SW¼ §16, Township 23 South, Range 37 East, N.M.P.M., Lea County, New Mexico

The special rules for the Jalmat Gas Pool establish 640 acre spacing, with a provision for 160 acre units, and wells to be no closer than 660 feet to the outer boundary of the well unit nor closer than 330 feet to a quarter-quarter section line.

The well will be drilled to a depth sufficient to test the Langlie-Mattix Pool, which is spaced on 40 acres under regulations of the Division, with wells to be no closer than 330 feet to a quarter-quarter section line. A Form C-102 will be submitted separately.

The well's location is based on drainage factors in the Langlie-Mattix Pool. The Kelly State Well Nos. 1-4 were drilled in the late 1950s and completed in the Langlie-Mattix Pool. Those wells are located in the center of each quarter-quarter section in the SW¼ of Section 16. Applicant believes that the proposed location in the center of the four existing wells will allow it to recover remaining Langlie-Mattix reserves.

There is also Jalmat potential in the well, and applicant requests approval of the non-standard unit. The Yates-Seven Rivers reservoir grades from a porous dolomitic sand downdip to a dolomite updip on the Teague Anticline. Wells 2-3 miles to the west have much thick dolomitic sand with 15-20% porosity, while porosity ranges from 8-12% in the area of the proposed well. There is a direct relationship between porosity and permeability in the reservoir. As a result, Jalmat wells on the Teague structure will not effectively drain 160 acres.

Attached as supporting data are the following:

- Exhibit A: Production map, showing that virtually all Jalmat production is west of the proposed well.
- Exhibit B: Yates structure map.
- Exhibit C: Scout ticket for the Johnson Well No. 3 in the SE $\frac{1}{4}$ NE $\frac{1}{4}$  of Section 20, reflecting a high initial rate.
- Exhibit D: Well test reports from the C.E. Lamunyon Fed. Well Nos. 23, 32, and 78 in Section 28, located to the south of the proposed well, which also show good rates from wells close to each other.

Pursuant to Order No. R-8170-P, all offsets operators, working interest owners, and/or royalty owners have been notified of this application. A listing of offset leases is attached as Exhibit E. A copy of the notice letter is attached as Exhibit F.

Please call me if you need anything further regarding this matter.

Very truly yours,

James Bruce

Attorney for Arch Petroleum Inc.



**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

jamesbruc@aol.com

2004 AUG 27 PM 1 20

August 25, 2004

Michael E. Stogner  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: Request to amend Administrative Order NSL-5099:

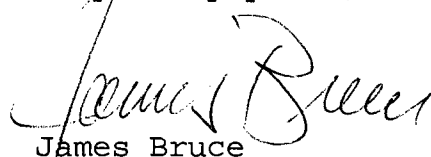
<u>Operator:</u>	Arch Petroleum Inc.
<u>Well:</u>	Kelly State Well No. 5
<u>Well Unit:</u>	SW $\frac{1}{4}$ SW $\frac{1}{4}$ S16, Township 24 South, Range 37 East, NMPM, Lea County, New Mexico

Dear Mr. Stogner:

The location applied for and approved by the above order was 1310 feet FSL and FWL of Section 16. Subsequent to filing the application, the location was moved to 910 feet FSL and 1230 feet FWL of Section 16. A Form C-102 is enclosed with this letter. Therefore, Arch Petroleum Inc. requests the order be amended to reflect the new location.

Notice is not required because the SW $\frac{1}{4}$  of section 16 has common ownership above 3800 feet subsurface.

Very truly yours,



James Bruce

Attorney for Arch Petroleum Inc.

DISTRICT I  
P.O. Box 1980, Santa Fe, NM 87501-1980

DISTRICT II  
P.O. Box 2008, Santa Fe, NM 87501-2008

DISTRICT III  
1000 Rio Grande Rd., Artec, NM 87410

DISTRICT IV  
P.O. Box 2008, Santa Fe, NM 87501-2008

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION  
P.O. Box 2008  
Santa Fe, New Mexico 87504-2008

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 37240	Pool Name Langlie Mattix 7 Rvrs Queen
Property Code 33464	Property Name KELLY STATE	Well Number 5
OGRID No. 000962	Operator Name ARCH PETROLEUM, INC.	Elevation 3315'

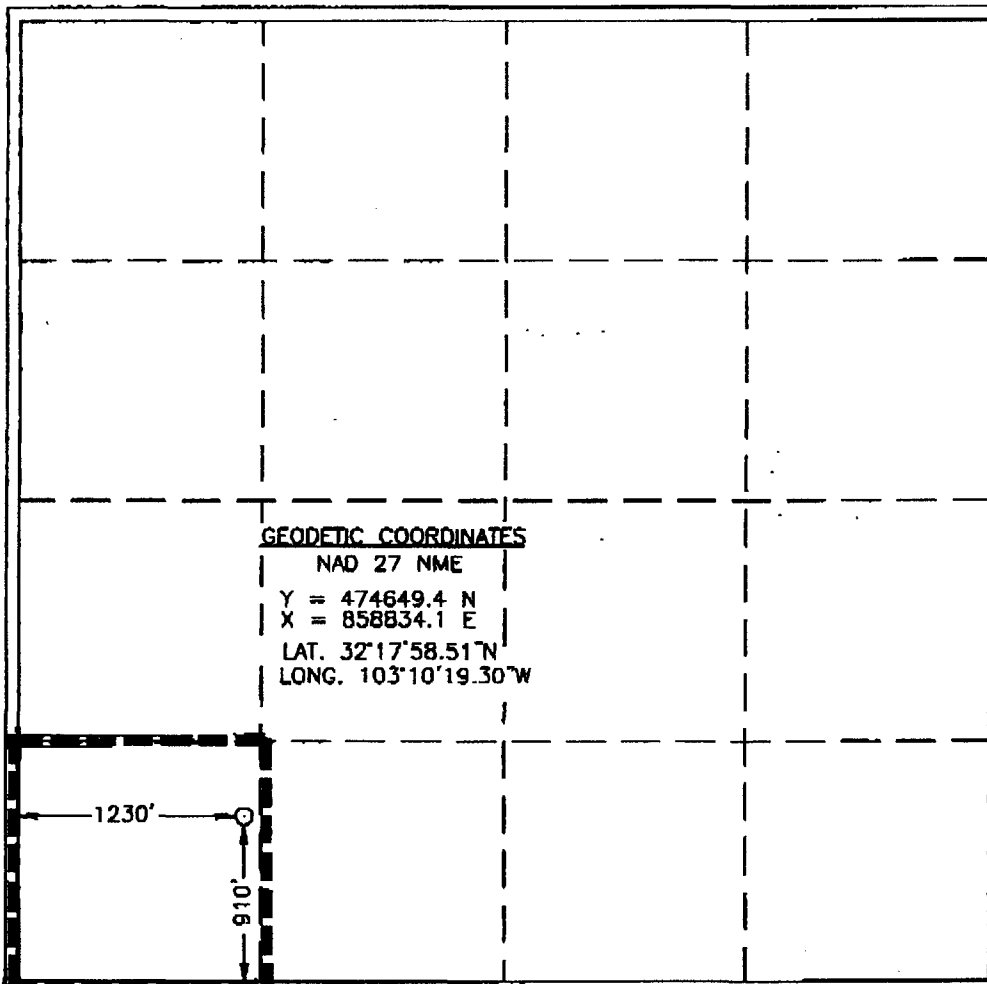
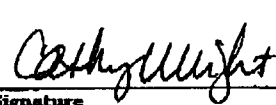
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	23-S	37-E		910	SOUTH	1230	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p><b>GEODETIC COORDINATES</b> NAD 27 NME Y = 474649.4 N X = 858834.1 E LAT. 32°17'58.51"N LONG. 103°10'19.30"W</p>
	<p><b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p> Signature Cathy Wright Printed Name Sr. Operation Tech Title 08/09/04 Date</p> <p><b>SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>March 31, 2004 Date Surveyed A.W.B. Signature of Surveyor Professional Surveyor NEW MEXICO 04.11.0380 Certificate No. GARY GIBSON 12641</p>



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

August 24, 2004

**Mark E. Fesmire, P.E.**

Director

Oil Conservation Division

Arch Petroleum, Inc.  
c/o James Bruce  
P. O. Box 1056  
Santa Fe, New Mexico 87504

Case 13343

**RE:** *Administrative application (Division reference No. pSEM0-421535965) filed with the Division on July 30, 2004 to establish a non-standard 160-acre gas spacing unit in the Jalmat Gas Pool (79240) comprising the SW/4 of Section 16, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico, to be dedicated to Arch Petroleum, Inc.'s proposed Kelly State well No. 5 to be drilled at an unorthodox gas well location 1310 feet from the South and West lines (Unit M) of Section 16.*

Dear Mr. Bruce:

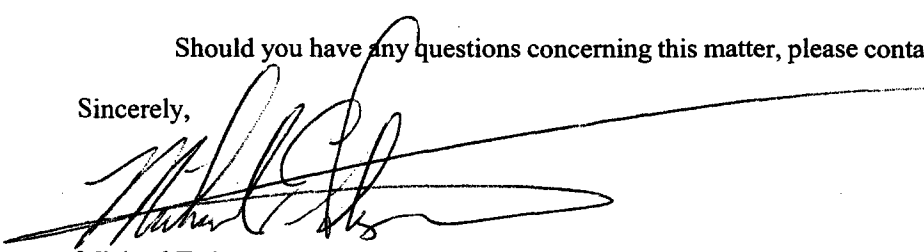
On Thursday, August 19, 2004 the Division received a timely objection from Fulfer Oil and Cattle Co., LLC ("Fulfer") to the subject application, see copy of a letter from Mr. J. E. Gallegos, legal counsel for Fulfer attached.

This application will therefore be set for hearing before a Division Hearing Examiner on the next available docket scheduled for September 16, 2004. In order to expatiate this matter I have prepared the following advertisement in this matter:

*"Application of Arch Petroleum, Inc. for a non-standard gas spacing unit and an unorthodox gas well location, Lea County, New Mexico. Applicant seeks to establish a non-standard 160-acre gas spacing unit within the Jalmat Gas Pool (79240) comprising the SW/4 of section 16, Township 23 South, Range 37 East, which is located approximately nine miles south of Eunice, New Mexico. This unit is to be dedicated to the Applicant's proposed Kelly State Well No. 5 to be drilled at an unorthodox gas well location 1310 feet from the South and West lines (Unit M) of Section 16.*

Should you have any questions concerning this matter, please contact me in Santa Fe at (505) 476-3465.

Sincerely,

  
Michael E. Stogner  
Chief Hearing Officer/Engineer

MES/ms

cc: New Mexico Oil Conservation Division - Hobbs  
J. E. Gallegos, Legal Counsel for Fulfer Oil and Cattle Co., LLC - Santa Fe  
Ms. Florene Davidson, Staff Specialist - NMOCD, Santa Fe



*Releant. DS* *cc*

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

August 20, 2004

**Mark E. Fesmire, P.E.**

Director

Oil Conservation Division

**Arch Petroleum, Inc.**

c/o **James Bruce**

**P. O. Box 1056**

**Santa Fe, New Mexico 87504**

***Administrative Order NSL-5099***

Dear Mr. Bruce:

Reference is made to the following: (i) your application (*administrative application reference No. pSEM0-419427505*) dated July 6, 2004 on behalf of the operator Arch Petroleum, Inc. ("Arch"); and (ii) the records of the New Mexico Oil Conservation Division ("Division") in Santa Fe, including the file on Division Administrative Order SWD-338: all concerning Arch's request for an unorthodox replacement oil well location within a former standard 40-acre oil spacing and proration unit in the Langlie-Mattix (Seven Rivers-Queen-Grayburg) Pool (37240) comprising the SW/4 SW/4 (Unit M) of Section 16, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico.

This application has been duly filed under the provisions of Division Rule 104.F, revised by Division Order No. R-11231, issued by the New Mexico Oil Conservation Commission in Case No. 12119 on August 12, 1999.

It is the Division's understanding that initial development of Langlie-Mattix oil production within this 40-acre unit commenced in August, 1956 when Resler & Sheldon recompleted the Kelly State Well No. 3 (API No. 30-025-10742), located at a standard oil well location 660 feet from the South and West lines (Unit M) of Section 16, into the Queen-Grayburg formations. Langlie-Mattix production ceased from this well in June, 1987, and in 1988 Penroc Oil Corporation converted this well into a saltwater disposal well (see Division Administrative Order SWD-338, dated May 9, 1988).

It is further understood that the SW/4 of Section 16 is a single state lease issued by the New Mexico State Land Office (State Lease No. E-04958) in which all leasehold ownership is common as to all depths above 3,800 feet.

It is further understood that such unorthodox location is necessitated for geologic and engineering reasons. This replacement well at the proposed unorthodox oil well location will enable Arch to further develop and deplete the Langlie-Mattix reserves within this state lease that might not otherwise be recovered.

**Arch Petroleum, Inc.**

**August 20, 2004**

**Page 2**

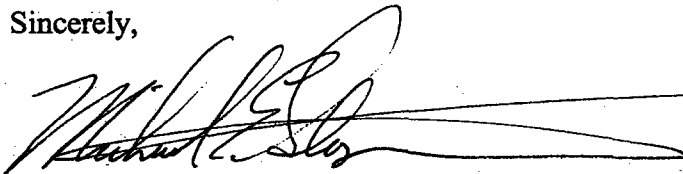
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**Division Administrative Order NSL-5099**

By the authority granted me under the provisions of Division Rule 104.F (2), the following described well to be drilled at an unorthodox oil well location within this former 40-acre Langlie-Mattix oil spacing and proration unit comprising the SW/4 SW/4 (Unit M) of Section 16, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico, is hereby approved:

**Kelly State Well No. 5  
1310' FS & WL.**

Sincerely,

A handwritten signature in black ink, appearing to read "Michael E. Stogner", with a long horizontal flourish extending to the right.

Michael E. Stogner  
Engineer/Hearing Officer

MES/ms

cc: New Mexico Oil Conservation Division – Hobbs  
New Mexico State Land Office – Santa Fe

# PARTIAL DIAGRAM OF LEA COUNTY OIL & GAS POOLS

