

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
March 4, 2004

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address Arch Petroleum Inc. P.O. Box 10340, Midland, TX 79702-7340		<sup>2</sup> OGRID Number 000962
<sup>3</sup> API Number 30-025-23535		<sup>6</sup> Well No. 2
<sup>4</sup> Property Code 14920	<sup>5</sup> Property Name Mattern	

**<sup>7</sup> Surface Location**

UL or lot no. K	Section 30	Township 21S	Range 37E	Lot Idn	Feet from the 1980	North/South line South	Feet from the 1783	East/West line West	County Lea
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	---------------

**<sup>8</sup> Proposed 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
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

<sup>9</sup> Proposed Pool 1

Penrose Skelly Grayburg (50350)

<sup>10</sup> Proposed Pool 2

**Drilling Pit Location and Other Information**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Depth to ground water				Distance from nearest fresh water well			Distance from nearest surface water		
<sup>11</sup> Work Type Code P		<sup>12</sup> Well Type Code O		<sup>13</sup> Cable/Rotary		<sup>14</sup> Lease Type Code P		<sup>15</sup> Ground Level Elevation 3499	
<sup>16</sup> Multiple No		<sup>17</sup> Proposed Depth		<sup>18</sup> Formation Grayburg		<sup>19</sup> Contractor		<sup>20</sup> Spud Date when approved	

**<sup>21</sup> Proposed Casing and Cement Program**

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2	12-3/4		312	250 sks	
11	8-5/8		2658	250 sks	
7-7/8	5-1/2		6012	450 sks	

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

See Attached.

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway  
Plugback

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

Signature:

Cathy Wright

Printed name: Cathy Wright

Title: Sr. Eng Tech

E-mail Address: wrightc@pogoproducing.com

Date: 12/12/05

Phone: 432-685-8100

OIL CONSERVATION DIVISION

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date:

DEC 14 2005

Expiration Date:

Conditions of Approval:

Attached ☐

Arch Petroleum Inc.  
Mattern #2  
K/30/T21S/R37E  
Lea County, NM  
30-025-23535

Arch Petroleum Inc. respectfully request permission to abandon the Eumont and recomplete in the Grayburg in the above captioned well. Procedure is as follows:

1. Sqz Eumont perfs.
2. Dump bail cmt from PBTD to 3960'.
3. Perf Grayburg w/ 1 spf 3707'-3922'.
4. Acdz Grayburg perfs w/ 1500 gals 15% acid.
5. Frac as directed.
6. RIH w/ rods & pump and put well on production.

**District I**

1625 N. French Dr., Hobbs, NM 88240

**District II**

1301 W. Grand Avenue, Artesia, NM 88210

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410

**District IV**

1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico

Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-23535	<sup>2</sup> Pool Code 50350	<sup>3</sup> Pool Name Penrose Skelly Grayburg
<sup>4</sup> Property Code 14920	<sup>5</sup> Property Name Mattern	<sup>6</sup> Well Number 2
<sup>7</sup> OGRID No. 000962	<sup>8</sup> Operator Name Arch Petroleum Inc.	<sup>9</sup> Elevation 3499

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	30	21S	37E		1980	South	1783	West	Lea

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>16</sup> 	<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Cathy Wright Printed Name Sr Eng Tech Title and E-mail Address 12/12/05 Date	
	<sup>18</sup> 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.	
	Date of Survey Signature and Seal of Professional Surveyor:	
	Certificate Number	