

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 - 025-36240
<sup>4</sup> Property Code 27142	<sup>5</sup> Property Name E. C. Hill "C"	<sup>6</sup> Well No. 4

<sup>7</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
M	27	23S	37E		1260	South	990	West	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
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<sup>9</sup> Proposed Pool 1 Langlie Mattix 7 Rvrs Q Grayburg (37240)	<sup>10</sup> Proposed Pool 2
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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 0		<sup>13</sup> Cable/Rotary		<sup>14</sup> Lease Type Code P		<sup>15</sup> Ground Level Elevation 3286	
<sup>16</sup> Multiple No		<sup>17</sup> Proposed Depth		<sup>18</sup> Formation 7 Rvrs Q		<sup>19</sup> Contractor		<sup>20</sup> Spud Date When approved	

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

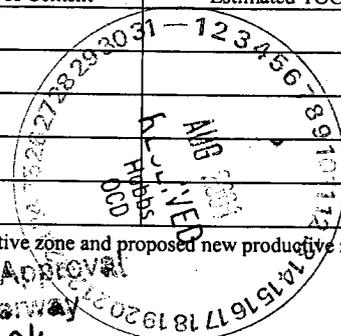
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
12-1/4	8-5/8	32	1112	650	
7-7/8	5-1/2	15.5	5500	1415	
	2-3/8		5378		

<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.

NSL-4855-A

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. Operation Tech

E-mail Address: wrightc@pogoproducting.com

Date: 08/04/04

Phone: 432-685-8100

OIL CONSERVATION DIVISION	
Approved by: <i>[Signature]</i>	
PETROLEUM ENGINEER	
Approval Date: APR 28 2005	Expiration Date:
Conditions of Approval: Attached <input type="checkbox"/>	

Arch Petroleum Inc.  
E. C. Hill C #4  
M/27/23S/37E  
Lea County, NM  
30-025-36240

Arch Petroleum Inc. respectfully request permission to plugback the E. C. Hill C #4 from the Teague Paddock Blinebry to the Langlie Mattix 7 Rvrs Q Grayburg. A CIBP will be set approximately 50' above the Paddock before perforating and stimulating the Langlie Mattix 7 Rvrs Q Grayburg.

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

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

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-025-36240	Pool Code 37240	Pool Name Langlie Mattix 7 Rvrs Q Grayburd
Property Code 27142	Property Name EC. HILL "C"	Well Number 4
OGRID No. 000962	Operator Name ARCH PETROLEUM, INC.	Elevation 3286'

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	27	23-S	37-E		1260'	SOUTH	990'	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. NSL-4855-A
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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>GEODETTIC COORDINATES NAD 27 NME Y = 464490.3 X = 864000.0 LAT. 32°16'17.43"N LONG. 103°09'20.42"W</p>	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Cathy Wright</i> Signature</p> <p>Cathy Wright Printed Name</p> <p>Sr. Operation Tech Title</p> <p>08/05/04 Date</p>
		<p><b>SURVEYOR CERTIFICATION</b></p> <p>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 04, 2003 Date Surveyed</p> <p>A.W.B. Signature &amp; Seal of Professional Surveyor</p> <p><i>Ronald T. Edson</i> Professional Surveyor</p> <p>03.11.0282 Certificate No. RONALD T. EDSON 3239 GARY EDSON 12641</p>