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**POGO PRODUCING COMPANY**

May 20, 2003

**CM RRR 7160 3901 9844 0594 6679**

New Mexico Oil Conservation Division

Attn: Mr. David R. Catanach

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

Re: CEDAR CANYON PROSPECT

Eddy County, New Mexico

**APPLICATION FOR ADMINISTRATIVE APPROVAL**

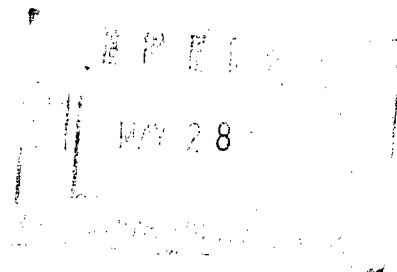
**FOR DOWNHOLE COMMINGLING**

Harroun 15 No 4 Well

2,260' FSL and 330' FEL, Unit I,

Section 15, T-24-S, R-29-E

Pogo Lease No L668



Gentlemen:

Pogo Producing Company hereby respectfully submits Form C-107A (in duplicate), along with attachments thereto, in connection with Pogo's request for Administrative Approval to downhole commingle production from the captioned well. A copy of this application, along with all attachments thereto, has been sent to the New Mexico Oil Conservation Division's District Supervisor in Artesia, New Mexico, and the Bureau of Land Management.

Should you have any questions regarding this matter, please contact Mr. Mark Kelley in this office at (432) 685-8100.

Sincerely,

POGO PRODUCING COMPANY

R. Scott McDaniel

District Landman

RSM/dkr

Enclosures

cc (w/enclosures): New Mexico Oil Conservation Division  
Attn: District Supervisor  
1301 West Grand Avenue  
Artesia, New Mexico 88210-2834

Bureau of Land Management  
P.O. Box 27115  
Santa Fe, New Mexico 87502-0115

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

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised May 15, 2000

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505  
APPLICATION FOR DOWNHOLE COMMINGLING

APPLICATION TYPE  
☒ Single Well  
☐ Establish Pre-Approved Pools  
EXISTING WELLBORE  
☒ Yes ☐ No

Pogo Producing Company P. O. Box 10340 Midland, TX 79702-7340  
Operator Address  
Harroun 15 4 I, Sec15, T-24-S, R-29-E Eddy  
Lease Well No. Unit Letter-Section-Township-Range County  
017891 17565 30-015-29309 X  
OGRID No. Property Code API No. Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Cedar Canyon; Delaware		Pierce Crossing, East; Bone Spring
Pool Code	11540		96473
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Perforations 5278-5300', 6307-6334', 6656-6680'		Perforations 6836-6850', 7838-7862'
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Current: 500 psi Producing (e) Original: 2400 psi Shut-In (e)		Current: 1000 psi Shut-In (e) Original: 3150 psi Shut-In (e)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	41.0 degrees API		42.8 degrees API
Producing, Shut-In or New Zone	Producing		Shut-In; CIBP @ 6800'
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 4-13-03 Rates: 5 BO, 38 BW, 21 MCF	Date: Rates:	Date: 3-7-99 & 6-2-99 Rates: 18 BO, 34 BW, 115 MCF
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 22 % 15 %	Oil Gas % %	Oil Gas 78 % 85 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐  
Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐  
Will commingling decrease the value of production? Yes ☐ No ☒  
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands  
or the United States Bureau of Land Management been notified in writing of this application? Yes ☒ No ☐  
NMOCD Reference Case No. applicable to this well: \_\_\_\_\_

Attachments:  
C-102 for each zone to be commingled showing its spacing unit and acreage dedication.  
Production curve for each zone for at least one year. (If not available, attach explanation.)  
For zones with no production history, estimated production rates and supporting data.  
Data to support allocation method or formula.  
Notification list of working, royalty and overriding royalty interests for uncommon interest cases.  
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools  
List of all operators within the proposed Pre-Approved Pools  
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.  
Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.  
SIGNATURE Mark V. Kelley Sr. Petroleum Engineer DATE 5-16-2003  
Mark V. Kelley 915 685-8100  
TYPE OR PRINT NAME TELEPHONE NO. ( )

DISTRICT I  
P.O. Box 1930, Hobbs, NM 88241-1930

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

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

DISTRICT IV  
P.O. Box 2088, Santa Fe, NM 87504-2088

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-29309	Pool Code 96473	Pool Name Pierce Crossing, East; Bone Spring
Property Code 17565	Property Name HARROUN 15	Well Number 4
OGRID No. 017891	Operator Name POGO PRODUCING COMPANY	Elevation 2938'

Surface Location

UL or lot No. 1	Section 15	Township 24 S	Range 29 E	Lot Idn	Feet from the 2260	North/South line SOUTH	Feet from the 330	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

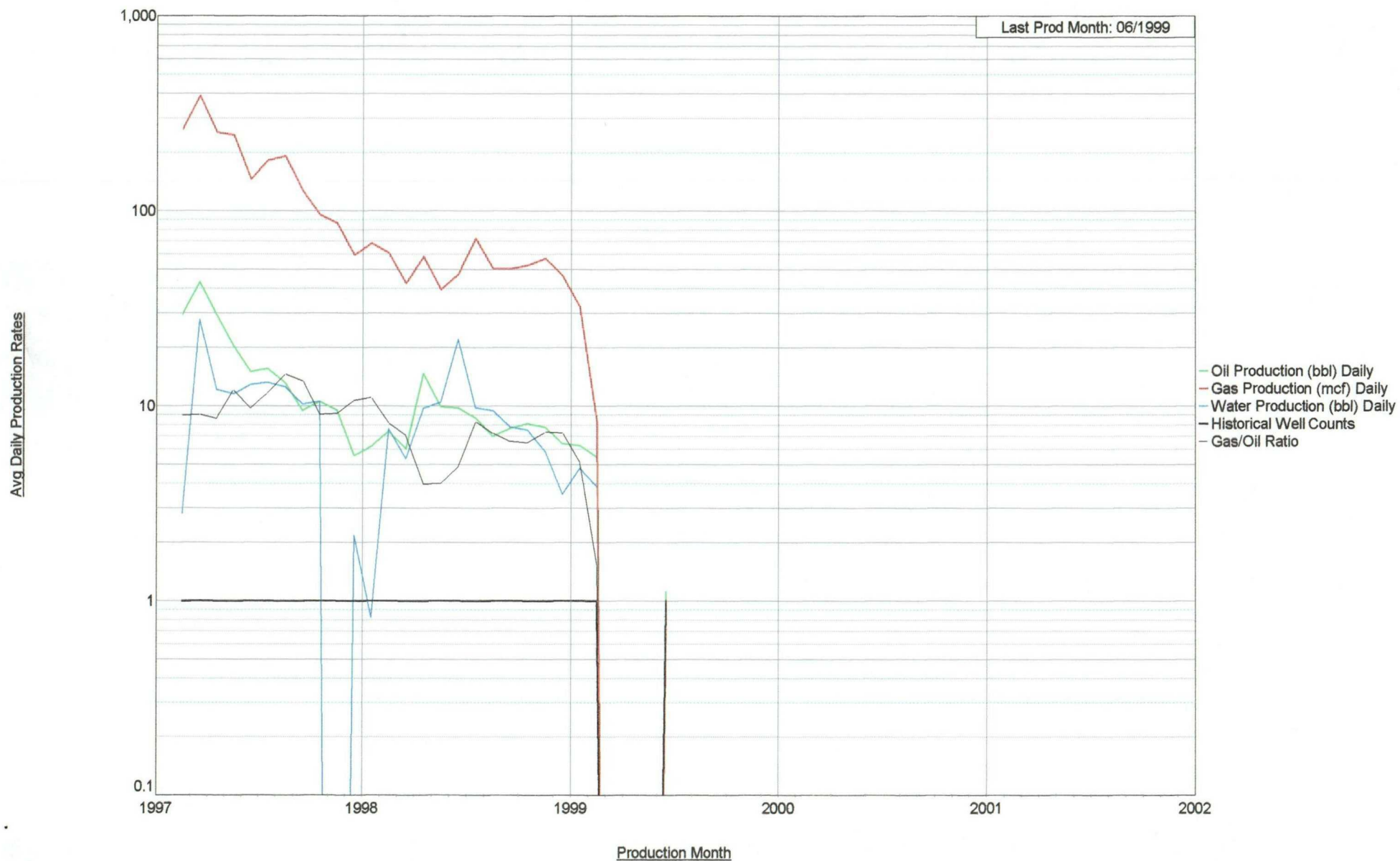
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.						

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

	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature Barrett L. Smith Printed Name Div. Operations Engr. Title 5-15-2003 Date	
	<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.  DECEMBER 5, 1996 Date Surveyed Signature of Surveyor Professional Surveyor NEW MEXICO Q. Num. 96-118600 Certification No. JOHN WEST, 676 ROYAL EIDSON, 3239 EIDSON, 12641	

Lease Name: HARROUN 15  
County, State: EDDY, NM  
Operator: POGO PRODUCING COMPANY  
Field: PIERCE CROSSING EAST  
Reservoir: BONE SPRING  
Location: 15 24S 29E

WELL #4 - CUM PROD FROM 02/1997: 9,529 bbl OIL, 82,900 mcf GAS, 6,823 bbl WTR LOC: 15 24S 29E



DISTRICT I  
P.O. Box 1830, Hobbs, NM 88241-1830

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

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

DISTRICT IV  
P.O. Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals and Natural Resources Department

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Revised February 10, 1994  
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OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-29309	Pool Code 11540	Pool Name Cedar Canyon; Delaware
Property Code 17565	Property Name HARROUN 15	Well Number 4
OGRID No. 017891	Operator Name POGO PRODUCING COMPANY	Elevation 2938'

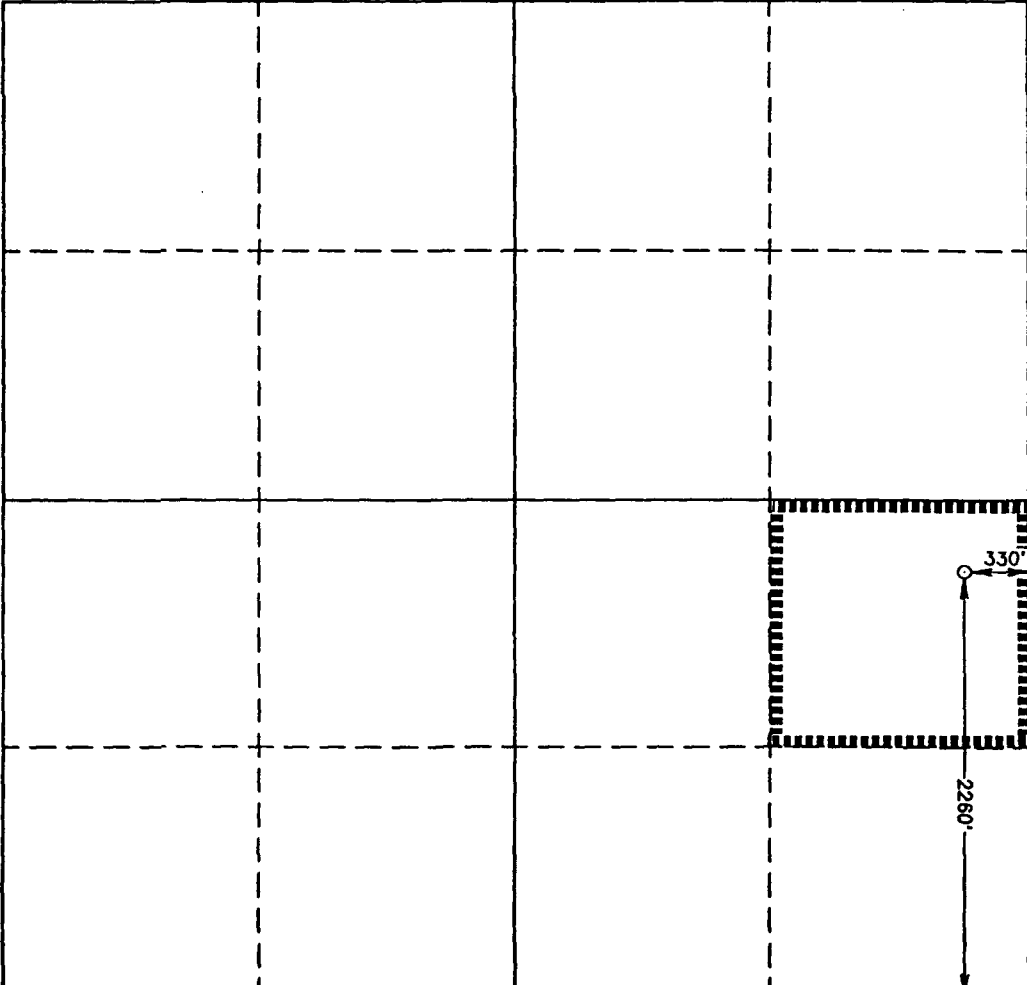
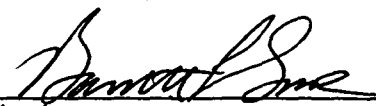
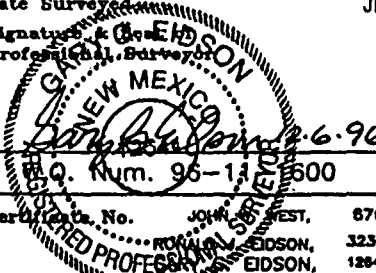
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	15	24 S	29 E		2260	SOUTH	330	EAST	EDDY

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.						

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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p> Signature</p> <p>Barrett L. Smith Printed Name</p> <p>Div. Operations Engr. Title</p> <p>5-15-2003 Date</p>	
	<p>SURVEYOR CERTIFICATION</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>DECEMBER 5, 1996</p> <p>Date Surveyed</p> <p>Signature of Surveyor</p> <p>Professional Surveyor</p> <p></p> <p>Certification No. JOHN WEST, 876 RONALD EDSON, 3239 EDSON, 12841</p>	

Lease Name: HARROUN 15  
County, State: EDDY, NM  
Operator: POGO PRODUCING COMPANY  
Field: CEDAR CANYON  
Reservoir: DELAWARE  
Location: 15 24S 29E

**WELL #4 - CUM PROD FROM 07/1999: 9,844 bbl OIL, 27,271 mcf GAS, 55,137 bbl WTR LOC: 15 24S 29E**

