

April 12, 2002

VIA CM RRR 7000 0520 0024 4232 1932 New Mexico Oil Conservation Division Mr. David R. Catanach Attn: 2040 South Pacheco Street

Santa Fe, New Mexico 87505

6 W 18 1920 **RED TANK, SE PROSPECT** Re: Eddy County, New Mexico APPLICATION FOR ADMINISTRATIVE APPROVAL FOR DOWNHOLE COMMINGLING Covington A Federal № 2 Well 330' FNL and 660' FWL, Section 25, T-22-S, R-32-E, N.M.P.M. Federal Oil and Gas Lease NM-2379 Pogo Lease L12

Gentlemen:

Pogo Producing Company respectfully submits Form C-107A (in duplicate), along with attachments thereto, in connection with Pogo's request for Administrative Approval to downhole 2021222324 commingle production from the captioned well.

Should you have any questions regarding this matter, please contact/Mr. Ron Gasser (915) 685-8130.

Sincerely,

POGO PRODUCING COMPANY Terry Gant

Division Dandman

Enclosures

New Mexico Oil Conservation Division cc (w/enclosure): Attn: District Supervisor 1625 North French Drive Hobbs, New Mexico 88240

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

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District ! District II **X11 South First Str**

District III Well

District IV 2140 South Pachcop, S

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco

Form C-107A Revised May 15, 2000

APPLICATION TYPE <u>X</u>Single

Establish Pre-Approved Pools

EXISTING WELLBORE

X_Yes__No

Santa Fe, New Mexico 87505

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APPLICATION FOR DOWNHOLE COMMINGLING

Pogo Producing Company

P. O. Box 10340 Midland, TX 79702-7340 Operator Address Covington A Federal 2 D, Sec 25, T-22-S, R-32-E Lea Lease Well No Unit Letter-Section-Township-Range County 017891 9316 30-025-31850 х OGRID No.

A PL No

	API No	Lease Type:	FederalStateFee	
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE	
Pool Name	Red Tank; Delaware, West		Red Tank; Bone Spring	
Pool Code	51689		51683	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Perforations 6986' - 8672' OA		Perforations 9820' - 9862'	
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift	
Bottomhole Pressure Note Pressure data will not be required if the ottom perforation in the lower zone is within 150% If the depth of the top perforation in the upper zone)	Current: 300 psi Producing (e) Original: 3218 psi Shut-In		Current: 1500 psi Shut-In (e) Criginal: 3637 psi Shut-In	
Dil Gravity or Gas BTU Degree API or Gas BTU)	38.8 degrees API		41.8 degrees API	
roducing, Shut-In or lew Zone	Producing		Shut-In	
Date and Oil/Gas/Water Rates f Last Production. Note For rew cones with no production history, plicant shall be required to antach production timates and supporting data)	Date: 3-10-02 Rates: 27 BO, 74 BW, 31 MCF	Date: Rates:	Date: 6-12-95 Rates: 17 BO, 33 BW, 22 MCF	
ixed Allocation Percentage ote If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas	
an current or past production, supporting data or planation will be required)	61 % 58 %	% %	39 % 42 %	

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Are all produced fluids from all commingled zones compatible with each other?

Property Code

Will commingling decrease the value of production?

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?

NMOCD Reference Case No. applicable to this well:

Attachments:

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- 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.

Ron D. Gasser

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

TITLE

Div. Petroleum Engineering Mgr.

4-8-2002

82000 RL 0000 RL 0000

RECEIVED OCD - ARTESIA

TYPE OR PRINT MAAR

SIGNATURE

....

915 685-8100

DATE

31415167

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-81

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

D 25 22 SCUTH 32 EAST NMPM LEA tual Footage Location of Weil: 330 rest from the NORTH line and 660 Outline the accessed by the NORTH line and 660 Delicated Accesse: Delicated Accesse: Outline the accessed dedicated to the subject well by colored pencil or hachure marks on the plat below. . Outline the accesse dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). . If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). . If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, force-pooling, etc.? . Yes No If answer is "yes" type of consolidation Accessary. Outline accessary. OPERATOR CERTIFICATION Acres approved by the Drision.	Operator f	POGO PRODUCI	NG COMPANY	Lease COVINGT	ON "A" FEDERA	Well No.
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Submit to Appropriate District Office Hate Lease - 4 copies See Lease - 3 copies	Energy, Minerals	tate of New Mexico and Natural Resource	s Department	Form C-102 Revised 1-1-
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April 8, 2002

ATTACHMENT TO PRODUCTION GRAPHS ACCOMPANYING NMOCD FORM C-107A – COVINGTON A FEDERAL WELL #2

The attached production graphs for both the Bone Spring and Delaware zones contain corrections to Pogo's past reporting of production to the two fields. Pogo's internal records of wellbore mechanics indicate that all production prior to July 1995 was from the Bone Spring zone. Past reporting by Pogo has correctly assigned production through that month to the Red Tank (Bone Spring) field. However, during June 1995 a cast iron bridge plug was set at 9600 feet above the Bone Spring perforations and the well was recompleted uphole in several intervals of the Delaware over time. The bridge plug is still in place at 9600 feet. Therefore, starting with July 1995, all production should have been reported in the Red Tank, West (Delaware) field.

Pogo's records indicate that production continued to be reported in the Red Tank (Bone Spring) field through October 1998, well after recompletion to the Delaware. Pogo personnel are currently investigating and correcting the apparent reporting errors and will file the appropriate corrections within the next few weeks. The correct cumulative production from the Bone Spring through June 1995 is 16,002 BO, 27,917 MCF, and 26,515 BW. The correct cumulative from the Delaware through December 2001, is 83,534 BO, 79,360 MCF, and 141,768 BW. These cumulatives reflect the corrected monthly production values as shown on the attached plots.

Pogo personnel are also investigating the indicated sudden drop in reported monthly water production beginning in August 1999. Current well tests indicate the Delaware zone is producing 74 BWPD as reported on the Form C-107A downhole commingling application. Anticipated total fluid production from both zones is expected to be 151 barrels per day, well within the pumping systems unmodified capacity of 167 barrels per day. Any needed correction to reported water production will also be filed within the next few weeks.

Ron D. Gasser Division Petroleum Engineering Manager





COVINGTON A FEDERAL WELL #2 - BONE SPRING PRODUCTION RED TANK, WEST (DELAWARE) FIELD

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МОИТНLY PRODUCTION

COVINGTON A FEDERAL WELL #2 - BONE SPRING PRODUCTION RED TANK (BONE SPRING) FIELD

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MONTH OF PRODUCTION