

DATE IN 11/28/05	SUSPENSE #	ENGINEER WVS	LOGGED IN 11/28/05	TYPE DHC 3598	APP NO. PWV 53230893
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

#### Application Acronyms:

**[NSL-Non-Standard Location]** **[NSP-Non-Standard Proration Unit]** **[SD-Simultaneous Dedication]**  
**[DHC-Downhole Commingling]** **[CTB-Lease Commingling]** **[PLC-Pool/Lease Commingling]**  
**[PC-Pool Commingling]** **[OLS - Off-Lease Storage]** **[OLM-Off-Lease Measurement]**  
**[WFX-Waterflood Expansion]** **[PMX-Pressure Maintenance Expansion]**  
**[SWD-Salt Water Disposal]** **[IPI-Injection Pressure Increase]**  
**[EOR-Qualified Enhanced Oil Recovery Certification]** **[PPR-Positive Production Response]**

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement  
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify \_\_\_\_\_

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

#### [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

**Note:** Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

e-mail Address

District I  
1435 N. French Drive, Hobbs, NM 87400

District II  
1301 W. Central Avenue, Albuquerque, NM 87102

District III  
1000 Rio Grande Road, Aztec, NM 87410

District IV  
1220 S. R. Ferguson Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

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

Form C-107A  
Revised June 10, 2003

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

## APPLICATION FOR DOWNHOLE COMMINGLING

BP AMERICA PRODUCTION COMPANY

501 WESTLAKE PARK BLVD. - RM 6.115

HOUSTON, TEXAS 77079

Operator  
GOLDFISH 17 FEDERAL

1

Address  
H Sec 17-T17S-R30E

EDDY

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 778 Property Code API No. 30-015-34376 Lease Type: ☒ Federal ☐ State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Wildcat Atoka		Undesignated Loco Hills (Morrow)
Pool Code			
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10,728' - 10,734'		11,032' - 11,094'
Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
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)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	N/A		N/A
Producing, Shut-In or New Zone	New Zone		New Zone
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: Rates:	Date: Rates:	Date: Rates:
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 % 33 %	Oil Gas % %	Oil Gas % 67 %

## 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?

Yes ☒ No ☐  
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 Susan B. Becnel TITLE Regulatory Consultant DATE 11/22/05

TYPE OR PRINT NAME Susan B. Becnel TELEPHONE NO. ( 281 ) 366-1842

E-MAIL ADDRESS becns1@bp.com

**DISTRICT I**

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico  
Energy, Minerals & Natural Resources Department**DISTRICT II**

P.O. Drawer 50, Artesia, NM 88211-0719

**DISTRICT III**

1000 Rio Brazos Rd., Aztec, NM 87410

**DISTRICT IV**

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-34376</b>	Pool Code	Pool Name <b>Undesignated Loco Hills (Moreau)</b>
Property Code	Property Name <b>GOLDFISH FED. 17</b>	Well Number <b>1</b>
OCRD No. <b>778</b>	Operator Name <b>BP AMERICA PRODUCTION COMPANY</b>	Elevation <b>3671'</b>

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>H</b>	<b>17</b>	<b>17 S</b>	<b>30 E</b>		<b>2055</b>	<b>NORTH</b>	<b>1015</b>	<b>EAST</b>	<b>EDDY</b>

## 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
<b>H</b>	<b>17</b>	<b>17 S</b>	<b>30 E</b>		<b>1980</b>	<b>NORTH</b>	<b>1015'</b>	<b>EAST</b>	<b>EDDY</b>

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>320 AC.</b>			

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>NOTE:</p> <p>1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.</p>	<p>320 AC.</p> <p>2055'</p> <p>3673.2'</p> <p>3672.3'</p> <p>3673.1'</p> <p>3673.9'</p> <p>1015'</p> <p>Plane Coordinates X = 605,958.9 Y = 668,034.3</p>		<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Sue Sellers</i> Signature</p> <p><b>Sue Sellers</b> Printed Name</p> <p><b>Regulatory Asst.</b> Title</p> <p><b>August 15, 2005</b> 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><b>July 11, 2005</b> Date Surveyed</p> <p><i>[Signature]</i> Signature &amp; Seal of Professional Surveyor</p> <p><b>W.O. Num. 2005-0657</b></p> <p>Certificate No. <b>MACON McDONALD 12185</b></p>		
	<p><b>DATE SURVEYED</b></p> <p><b>July 11, 2005</b></p>		
	<p><b>DATE SURVEYED</b></p> <p><b>July 11, 2005</b></p>		

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

Energy, Minerals &amp; Natural Resources Department

Revised August 15, 2000  
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-0710

DISTRICT III

1000 E. Braker Rd., Artesia, NM 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-015-34376</b>	Pool Code	Pool Name <b>Wildcat A-06A</b>
Property Code	Property Name <b>GOLDFISH FED. 17</b>	Well Number <b>1</b>
OGRID No. <b>778</b>	Operator Name <b>BP AMERICA PRODUCTION COMPANY</b>	Elevation <b>3671'</b>

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>H</b>	<b>17</b>	<b>17 S</b>	<b>30 E</b>		<b>2055</b>	<b>NORTH</b>	<b>1015</b>	<b>EAST</b>	<b>EDDY</b>

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Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>320 AC.</b>			

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>NOTE:</p> <p>1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the New Mexico Coordinate System, New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.</p>	<p>320 AC.</p> <p>2055'</p> <p>3673.2'</p> <p>3672.3'</p> <p>1015'</p> <p>3673.1'</p> <p>3673.9'</p> <p>Plane Coordinate X = 605,958.9 Y = 668,034.3</p>		<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Sue Sellers</i> Signature <b>Sue Sellers</b> Printed Name <b>Regulatory Asst.</b> Title <b>August 15, 2005</b> 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><b>July 11, 2005</b> Date Surveyed Signature &amp; Seal of Professional Surveyor <i>[Signature]</i> W.O. Num. 2005-0657 Certificate No. MACON McDONALD 12189</p>		

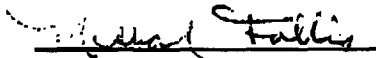
## Goldfish 17 Federal #1

Allocation percentages were estimated based on reserve calculations done for both the Morrow and Atoka Formations. Two potential sand pay zones were defined in the Morrow, totaling 5.5' with an average of 5% porosity and a water saturation of 42%. Both of these sands are tight based on the wireline logs but reservoir characteristics may improve away from the wellbore. The Atoka sand calculates out as a higher porosity zone, but with slightly higher water saturations (52% over a 2.5' pay interval with 6.4% porosity).

Because of the poorer quality reservoir encountered in the well, we would like to open both the Morrow and Atoka together to attempt an economic completion. Reserve calculations were done based on 320 acreage drainage for both horizons and the numbers may be skewed high based on that assumption.

Morrow recoverable reserves are estimated at 0.189 BCF and Atoka recoverable reserves are estimated at 0.394 BCF.

Prepared by:



Michael Follis  
Geologist, BP America  
SENM, Morrow

*Goldfish 17 Federal #1*

--GASVOL--

## RECOVERABLE GAS RESERVES PROGRAM

WELL NAME: Goldfish

FIELD NAME: Atoka

GAS GRAVITY 0.60

% N2 0.00 %

% CO2 0.00 %

% H2S 0.00 %

CONDENSATE (YES=1) 1

RES. TEMPERATURE 150 F

INITIAL PRESSURE 3,500 Psia

ABANDONMENT PRES 800 Psia

NET PAY 3 Feet

ACRES 320 Acres

WATER SAT 52.00 %

POROSITY 6.40 %

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by Douglas M Boone

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Version 3.0M

22-Nov-05

Tc = 359.26

Pc = 670.98

Tc' = 359.26

Pc' = 670.98

Tr = 1.701

Pri = 5.216

Pra = 1.192

Zi = 0.8939

Za = 0.9278

GAS IN PLACE 243,490 Mcf

RECOVERABLE GAS 189,867 Mcf

RECOVERY 77.98%

MCF/AC-FT 237.33

*Goldfish 17 Federal #1*

--GASVOL--

## RECOVERABLE GAS RESERVES PROGRAM

WELL NAME: Goldfish

FIELD NAME: Morrow

GAS GRAVITY 0.60

% N2 0.00 %

% CO2 0.00 %

% H2S 0.00 %

CONDENSATE (YES=1) 1

RES. TEMPERATURE 150 F

INITIAL PRESSURE 3,500 Psia

ABANDONMENT PRES 800 Psia

NET PAY 6 Feet

ACRES 320 Acres

WATER SAT 42.00 %

POROSITY 5.00 %

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Version 3.0M

22-Nov-05

Tc = 359.26

Pc = 670.98

Tc' = 359.26

Pc' = 670.98

Tr = 1.701

Pri = 5.216

Pra = 1.192

Zi = 0.8939

Za = 0.9278

GAS IN PLACE 505,686 Mcf

RECOVERABLE GAS 394,321 Mcf

RECOVERY 77.98%

MCF/AC-FT 224.05

**BP America Production Company**

Onshore Business Unit  
Hugoton, Arkoma, & East Texas Asset Areas  
501 Westlake Park Boulevard  
Houston, Texas 77079

Sue Sellers  
Regulatory Staff Assistant  
Phone: 281.366.2052  
Fax: 281.366.7688

**FAX COVER SHEET**

TO: William Jnes - NMCO Santa Fe	FAX NUMBER: 505-476-3462 Phone 505-476-3448
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DATE: 11/22/05	PAGES TO FOLLOW 7
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FROM: Susan Beemel	FAX NUMBER: (281) 366-7688
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**COMMENTS:**

C-107A (2 versions) - We can discuss tomorrow  
C-102 (1 for each sand)  
Technical Data

Will - please call me on my cell phone  
tomorrow to confirm receipt. Thank you -

Susan

Thank you,  
Susan Beemel  
(281) 366-7682 - cell phone 713-504-5471

C: Joe Lara - BLM - Carlisbad Field Office 505-885-9264  
David Glas. BLM - Roswell Office 505-627-0274 fax