

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
Abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No. **NM - 03549**
6. Indian, Allottee or tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

7. Unit or CA/Agreement, Name and/or No.

2. Name of Operator
BP America Production Company Attn: Mary Corley

8. Well Name and No.
Florance C LS 4

3a. Address
P.O. Box 3092 Houston, TX 77253

3b. Phone No. (include area code)
281-366-4491

API Well No.
30-045-07130

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1600' FSL & 2161' FWL Sec 29 T28N R08W

10. Field and Pool, or Exploratory Area
Blanco Mesaverde, PC & Otero Chacra

11. County or Parish, State
San Juan County, New Mexico

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OR NOTICE REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent

Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water shut-Off
<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	
<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Water Disposal	
<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	Other	Downhole Commingling

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

BP America Production Company request permission to complete the subject well into the Otero Chacra and trimingle production downhole with the existing South Blanco Pictured Cliffs and Blanco Mesaverde Pools as per the attached procedure. Application also submitted to NMOC's Santa Fe Office for approval.

The interest owners are identical between these three Pools, therefore, no additional notification is required prior to downhole commingling approval.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Pictured Cliffs and Mesaverde Pools. This production shall serve as a base for production subtracted from the total production for the commingled well. The balance of the production will be attributed to the Chacra. Attached are the future production decline estimates for the Pictured Cliffs & Mesaverde Pools.

Commingling Production Downhole in the subject well from the proposed pools with not reduce the value of the total remaining production.

DHC 3174

14. I hereby certify that the foregoing is true and correct
Name (Printed/typed)

Mary Corley

Title **Senior Regulatory Analyst**

Signature

Mary Corley

Date **08/04/2003**

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

AUG 15 2003

Conditions of approval, if any, are attached. Approval of this notice does not warrant or Certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC

District I.
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-07130	² Pool Code 82329	³ Pool Name Otero Chacra
⁴ Property Code 000527	⁵ Property Name Florance C LS	⁶ Well Number 4
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 5960' GR

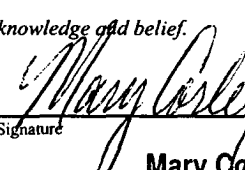
¹⁰ Surface Location

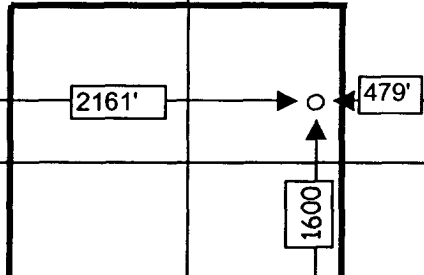
UL or lot no. Unit K	Section 29	Township 28N	Range 08W	Lot Idn	Feet from 1600'	North/South South	Feet from 2161'	East/West West	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Mary Corley Signature Mary Corley Printed Name Sr. Regulatory Analyst Title 7/23/2003 Date
				¹⁸ 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. 3/18/1957 Date of Survey Signature and Seal of Professional Surveyor: C O WALKER Certificate Number



Florance C LS #4 Workover Procedure

Procedure:

1. Check anchors. MIRU workover rig.
2. Check and record tubing, casing, and bradenhead pressures.
3. Blow down well. Kill with 2% KCL water ONLY if necessary.
4. Nipple down WH. NU BOPs.
5. TOH with 1-1/4" short string production tubing currently set at 2312'.
6. TIH with 1-1/4" tubing and cleanout fill above 7" packer at 2416'.
7. Release packer and TOH with 2-3/8" production tubing currently set at 4694'.
8. TIH with bit and scraper for 5-1/2" casing to 4760'.
9. RU WL unit. RIH with 5-1/2" CIBP. Set CIBP at 4425'.
11. RIH with 3-1/8" casing guns. Perforate Menefee formation (correlate to GR log).

Menefee perforations, 2 spf (12 shots/ 24 holes):
4190', 4192', 4205', 4210', 4220', 4270', 4310', 4322', 4340', 4343', 4378', 4380'
12. RIH with 2-3/8" X 3-1/2" tapered frac string and 5-1/2" packer. Set packer at 4100'.
13. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
14. Flowback frac immediately.
15. Release packer and TOH with frac string and packer. LD frac string.
16. RU WL unit. RIH with 5-1/2" CIBP. Set CIBP at 3400'.
17. RIH with 3-1/8" casing guns. Perforate Chacra formation (correlate to GR log).

Chacra Perforations, 2 spf (19 shots/ 38 holes):
3220' – 3225' (5')
3248' – 3252' (4')
3337' – 3342' (5')
3358' – 3363' (5')
18. RIH with 2-3/8" X 3-1/2" tapered frac string and 5-1/2" packer. Set packer at 3100'.

19. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
20. Flowback frac immediately.
21. Release packer and TOH with frac string and packer. LD frac string.
22. TIH with tubing and bit. Cleanout fill and drill bridge plugs set at 4425' and 3100'. Cleanout fill to PBTD at 4766'. Blow well dry at PBTD.
23. Rabbit tubing and RIH with 2-3/8" production tubing.
24. Land 2-3/8" production tubing at 4700'.
25. ND BOP's. NU WH. Return well to production and downhole trimingle Pictured Cliffs, Chacra, and Mesaverde.

Florance C LS #4

Sec 29, T28N, R8W

API # 30-045-07130

GL: 5950'

History:

- Completed as MV/PC dual
in Dec 1957

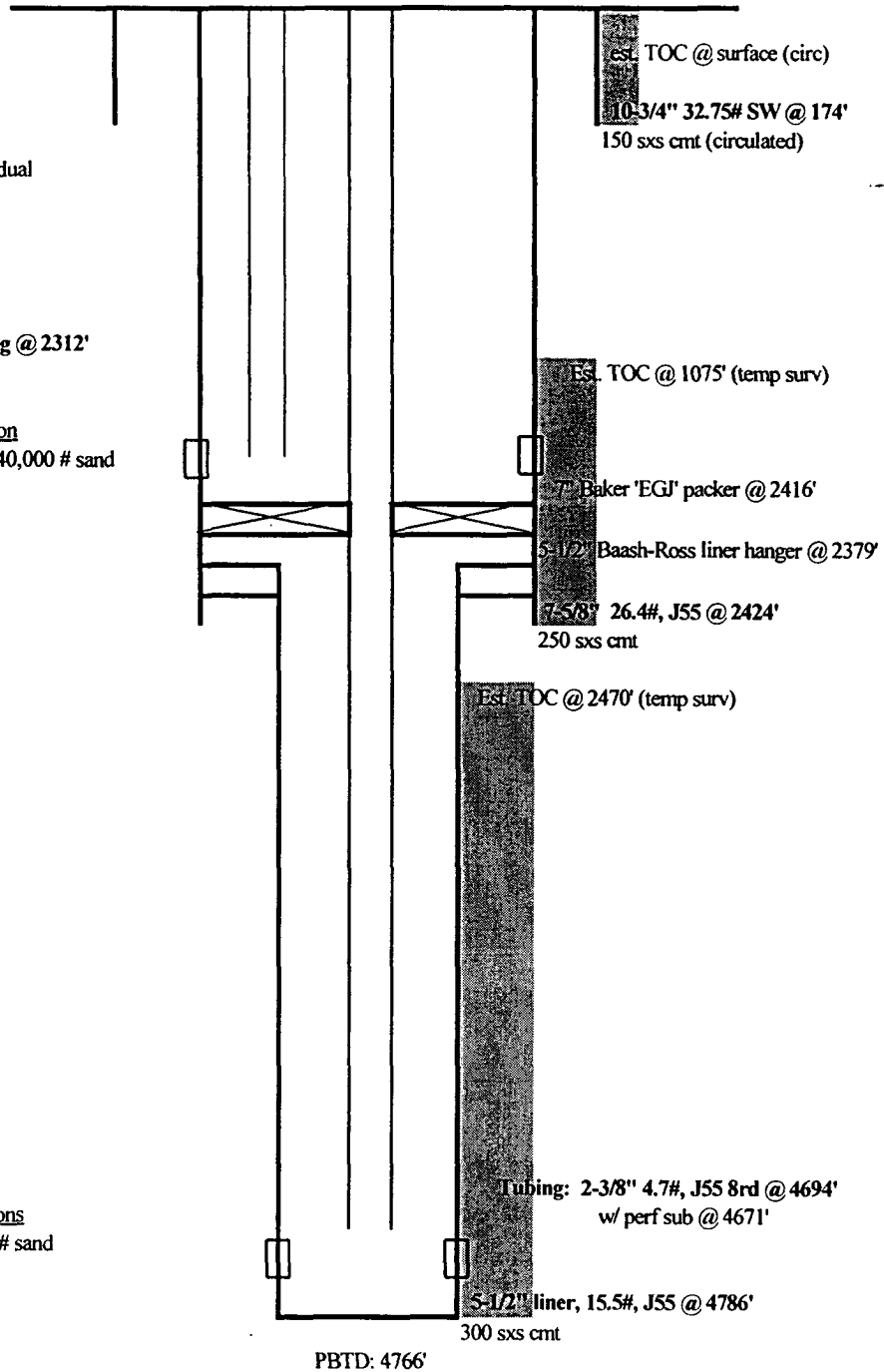
1-1/4" 2.4# Grade A tbg @ 2312'

Pictured Cliffs Perforation

2276' - 2314' (2 spf) w/ 40,000 # sand

Point Lookout Perforations

4520' - 4756' w/ 60,000 # sand



NOTES:

updated: 6/18/2003 jad

Future Production Decline Estimate Mesaverde

Daily Rates

$\ln(Q_i/Q) = -dt$
 $Q_i = 60$
 $Q = 63$
 $rate = 60$
 $time = 6$
 $dt = -0.048790164$
 $decline = -0.487901642$

Month	Gas Volume
Jan-2002	54
Feb-2002	85
Mar-2002	66
Apr-2002	67
May-2002	67
Jun-2002	62
Jul-2002	74
Aug-2002	63
Sep-2002	65
Oct-2002	50
Nov-2002	63
Dec-2002	52
Jan-2003	33
Feb-2003	63
Mar-2003	61
Apr-2003	58
May-2003	60
Jun-2003	60
Jul-2003	59
Aug-2003	59
Sep-2003	58
Oct-2003	58
Nov-2003	57
Dec-2003	57
Jan-2004	56
Feb-2004	56
Mar-2004	55
Apr-2004	55
May-2004	54
Jun-2004	54
Jul-2004	53
Aug-2004	53
Sep-2004	52
Oct-2004	52
Nov-2004	52
Dec-2004	51

Month	Gas Volume
Jan-2005	51
Feb-2005	50
Mar-2005	50
Apr-2005	49
May-2005	49
Jun-2005	48
Jul-2005	48
Aug-2005	47
Sep-2005	47
Oct-2005	46
Nov-2005	46
Dec-2005	45
Jan-2006	45
Feb-2006	44
Mar-2006	44
Apr-2006	43
May-2006	43
Jun-2006	42
Jul-2006	42
Aug-2006	41
Sep-2006	41
Oct-2006	40
Nov-2006	40
Dec-2006	39
Jan-2007	39
Feb-2007	38
Mar-2007	38
May-2007	37
Jun-2007	37
Jul-2007	36
Aug-2007	36
Sep-2007	35
Oct-2007	35
Nov-2007	34
Dec-2007	34
Jan-2008	33

Month	Gas Volume
Feb-2008	33
Mar-2008	32
Apr-2008	32
May-2008	32
Jun-2008	31
Jul-2008	31
Aug-2008	30
Sep-2008	30
Oct-2008	29
Nov-2008	29
Dec-2008	28
Jan-2009	28
Feb-2009	27
Mar-2009	27
Apr-2009	26
May-2009	26
Jun-2009	25
Jul-2009	25
Aug-2009	24
Sep-2009	24
Oct-2009	23
Nov-2009	23
Dec-2009	22
Jan-2010	22
Feb-2010	21
Mar-2010	21
Apr-2010	20
May-2010	20
Jun-2010	19
Jul-2010	19
Aug-2010	18
Sep-2010	18
Oct-2010	17
Nov-2010	17
Dec-2010	16
Jan-2011	16

Florance C LS 4

Future Production Decline Estimate Mesaverde

Daily Rates

Month	Gas Volume
Feb-2011	15
Mar-2011	15
Apr-2011	14
May-2011	14
Jun-2011	13
Jul-2011	13
Aug-2011	12
Sep-2011	12
Oct-2011	12
Nov-2011	11
Dec-2011	11
Jan-2012	10
Feb-2012	10
Mar-2012	9
Apr-2012	9
May-2012	8
Jun-2012	8
Jul-2012	7
Aug-2012	7
Sep-2012	6
Oct-2012	6
Nov-2012	5
Dec-2012	5
Jan-2013	4
Feb-2013	4
Mar-2013	3
Apr-2013	3
May-2013	2
Jun-2013	2
Jul-2013	1
Aug-2013	1
Sep-2013	0
Oct-2013	0
Nov-2013	0
Dec-2013	0
Jan-2014	0

Florance C LS 4 Future Production Decline Estimate Pictured Cliffs Daily Rates

$$\ln(Q_f/Q_i) = -dt$$

$$Q_f = 0$$

$$Q_i = 0$$

$$\text{rate} = 0$$

$$\text{time} = 4$$

$$dt = 0$$

$$\text{decline} = 0$$

Month	Gas Volume
Jan-2002	0
Feb-2002	0
Mar-2002	0
Apr-2002	0
May-2002	76
Jun-2002	23
Jul-2002	86
Aug-2002	0
Sep-2002	123
Oct-2002	0
Nov-2002	0
Dec-2002	0
Jan-2003	0
Feb-2003	0
Mar-2003	0
Apr-2003	0
May-2003	0
Jun-2003	0
Jul-2003	0
Aug-2003	0
Sep-2003	0
Oct-2003	0
Nov-2003	0
Dec-2003	0
Jan-2004	0
Feb-2004	0
Mar-2004	0
Apr-2004	0
May-2004	0
Jun-2004	0
Jul-2004	0
Aug-2004	0
Sep-2004	0
Oct-2004	0
Nov-2004	0
Dec-2004	0

Month	Gas Volume
Jan-2005	0
Feb-2005	0
Mar-2005	0
Apr-2005	0
May-2005	0
Jun-2005	0
Jul-2005	0
Aug-2005	0
Sep-2005	0
Oct-2005	0
Nov-2005	0
Dec-2005	0
Jan-2006	0
Feb-2006	0
Mar-2006	0
Apr-2006	0
May-2006	0
Jun-2006	0
Jul-2006	0
Aug-2006	0
Sep-2006	0
Oct-2006	0
Nov-2006	0
Dec-2006	0
Jan-2007	0
Feb-2007	0
Mar-2007	0
May-2007	0
Jun-2007	0
Jul-2007	0
Aug-2007	0
Sep-2007	0
Oct-2007	0
Nov-2007	0
Dec-2007	0
Jan-2008	0

Month	Gas Volume
Feb-2008	0
Mar-2008	0
Apr-2008	0
May-2008	0
Jun-2008	0
Jul-2008	0
Aug-2008	0
Sep-2008	0
Oct-2008	0
Nov-2008	0
Dec-2008	0
Jan-2009	0
Feb-2009	0
Mar-2009	0
Apr-2009	0
May-2009	0
Jun-2009	0
Jul-2009	0
Aug-2009	0
Sep-2009	0
Oct-2009	0
Nov-2009	0
Dec-2009	0
Jan-2010	0
Feb-2010	0
Mar-2010	0
Apr-2010	0
May-2010	0
Jun-2010	0
Jul-2010	0
Aug-2010	0
Sep-2010	0
Oct-2010	0
Nov-2010	0
Dec-2010	0
Jan-2011	0

Florance C L5 4

Future Production Decline Estimate Pictured Cliffs Daily Rates

Month	Gas Volume
Feb-2011	0
Mar-2011	0
Apr-2011	0
May-2011	0
Jun-2011	0
Jul-2011	0
Aug-2011	0
Sep-2011	0
Oct-2011	0
Nov-2011	0
Dec-2011	0
Jan-2012	0
Feb-2012	0
Mar-2012	0
Apr-2012	0
May-2012	0
Jun-2012	0
Jul-2012	0
Aug-2012	0
Sep-2012	0
Oct-2012	0
Nov-2012	0
Dec-2012	0
Jan-2013	0
Feb-2013	0
Mar-2013	0
Apr-2013	0
May-2013	0
Jun-2013	0
Jul-2013	0
Aug-2013	0
Sep-2013	0
Oct-2013	0
Nov-2013	0
Dec-2013	0
Jan-2014	0

Month	Gas Volume
Feb-2014	0
Mar-2014	0
Apr-2014	0
May-2014	0
Jun-2014	0
Jul-2014	0
Aug-2014	0
Sep-2014	0
Oct-2014	0
Nov-2014	0
Dec-2014	0
Jan-2015	0
Feb-2015	0
Mar-2015	0
Apr-2015	0
May-2015	0
Jun-2015	0
Jul-2015	0
Aug-2015	0
Sep-2015	0
Oct-2015	0
Nov-2015	0
Dec-2015	0
Jan-2016	0
Feb-2016	0
Mar-2016	0
Apr-2016	0
May-2016	0
Jun-2016	0
Jul-2016	0
Aug-2016	0
Sep-2016	0
Oct-2016	0
Nov-2016	0
Dec-2016	0
Jan-2017	0

Form C-107A
Revised May 15,District I

1400 N. French Drive, Hobbs, NM 88240

2000

District II

111 South First Street, Artesia, NM 87210

District III

1000 Rio Brazos Road, Aztec, NM 87410

Pools

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well☐ Establish Pre-Approved

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

BP America Production Company P. O. Box 3092 Houston, TX 77253

Operator

Address

Florance C LS

4

Unit K Section 29 T28N, R08W

San Juan

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 000778 Property Code 000527 API No. 30-045-07130 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Blanco Pictured Cliffs S.	Otero Chacra	Blanco Mesaverde
Pool Code	72439	82329	72319
Top & Bottom of Pay Section (Perforated or Open-Hole Interval)	2276' - 2314'	3220' - 33363	4190' - 4756'
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing
Bottomhole Pressure	280	430	490
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1290	1210	1258
Producing, Shut-In or New Zone	Producing	New Zone	Producing
Date and Oil/Gas/Water Rates of Last Production.	Date: Rates:	Date: Rates:	Date: Rates:
Fixed Allocation Percentage	Oil Gas % %	Oil Gas % %	Oil Gas % %

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.

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 Mary Corley TITLE Sr. Regulatory Analyst DATE 08/04/2003

TYPE OR PRINT NAME Mary Corley TELEPHONE NO. (281) 366-4491