



Plantation Petroleum Companies

Plantation Petroleum Holdings-IV, LLC; Plantation Operating, LLC

Kimberly Faldyn
Engineering Tech

2008 MAY 9 PM 2 26

4700 W. Sam Houston Pkwy N., Ste 140
Houston, TX 77041
Tel: (281) 296-7222
Fax: (281) 298-2333

May 8, 2008

SENT VIA FEDERAL EXPRESS

State of New Mexico
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Attn: Mr. William Jones

RE: Filing C-107A for Plantation Operating, LLC
Application for Downhole Commingling
Cypress #1
Eddy County, NM

Dear Mr. Jones,

Attached please find Form C-107A for Plantation Operating, LLC. The Cypress #1 is a newly drilled dually completed well in Eddy County, New Mexico, and we are requesting downhole commingling. This well was just completed in April and is currently flowing the Morrow up the 2-7/8" tubing, and the Atoka is flowing up the 5.5" x 2-7/8" annulus, separated by a packer at 11,842' above Morrow. The well name, its location, and all attachments included are listed below:

<u>Well Name</u>	<u>Attachments</u>
Cypress #1 B-Sec 8, T23S, R27E Eddy County, NM	C-107A, C-102 for Atoka, C-102 for Morrow, Gas Analysis Report for Morrow, Gas Analysis Report for Atoka

A copy of this application has been forwarded to the NMOCD in Artesia, NM. Should you have any questions or need additional information, please feel free to call Kim Faldyn at (281) 296-7222 or e-mail at kfaldyn@plantationpetro.com. Thank you for your attention to this matter.

Best regards,

Kimberly Faldyn
Engineering Tech

cc: Kimberly Wilson
1301 Grand Avenue
Artesia, New Mexico 88210

DATE IN 5/13/08	SUSPENSE	ENGINEER W Jones	LOGGED IN 5/13/08	TYPE DHC	APP NO. PKVR0813434471
--------------------	----------	---------------------	----------------------	-------------	---------------------------

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.

Donald Dotson
 Print or Type Name

[Signature]
 Signature

CDO
 Title

5/13/08
 Date

ddotson@plantationpetro.com
 e-mail Address

RECEIVED
 2008 MAY 13 AM 9 29

Plantation Operating, LLC
Operator

4700 W. Sam Houston Parkway, N., Suite 140, Houston, TX 77041
Address

Cypress
Lease

#1
Well No.

B-Sec 8, T23S, R27E
Unit Letter-Section-Township-Range

DHG-4022
Eddy
County

OGRID No. 237788 Property Code 35519 API No. 30-015-35855 Lease Type: ☐ Federal ☐ State ☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Carlsbad; Atoka, South		Carlsbad; Morrow, South
Pool Code	73800		73960
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10,790-10,800'		11906-11,916'
Method of Production (Flowing or Artificial Lift)	Flow		Flow
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)	N/A		N/A
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1026.8		1016.0
Producing, Shut-In or New Zone	Producing		Producing
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: 5/7/2008 Rates: 726 MCFD, 0 BOPD, 0 BWPD	Date: Rates:	Date: 5/7/2008 Rates: 759 MCFD, 0 BOPD 4 BOPD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 100 % Gas 50 %	Oil % Gas %	Oil 0 % Gas 50 %

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:

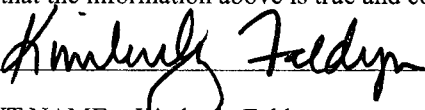
List of other orders approving downhole commingling within the proposed Pre-Approved Pools

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 

TITLE Engineering Tech

DATE 5/8/2008

TYPE OR PRINT NAME Kimberly Faldyn

TELEPHONE NO. (281)296-7222

E-MAIL ADDRESS kfaldyn@plantationpetro.com

State of New Mexico

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

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

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87605

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-35855	Pool Code 73800	Pool Name Carlsbad; Atoka, South
Property Code 35519	Property Name CYPRESS	Well Number 1
OGRID No. 237788	Operator Name PLANTATION OPERATING, LLC	Elevation 3171'

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	8	23-S	27-E		1280	NORTH	1650	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 320	Joint or Infill	Consolidation Code	Order No. DHC-
------------------------	-----------------	--------------------	-------------------

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>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 Kimberly Faldyn</p> <p>Printed Name Engineering Tech</p> <p>Title 5/7/2008</p> <p>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>NOVEMBER 9, 2005</p> <p>Date Surveyed JR</p> <p>Signature & Seal of Professional Surveyor RONALD J. EIDSON</p> <p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>
	<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=481275.8 N X=538568.1 E</p> <p>LAT.=32°19'23.09" N LONG.=104°12'30.52" W</p>

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1625 N. FRENCH DR., HOBBES, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-35855	Pool Code 73960	Pool Name Carlsbad; Morrow, South
Property Code 35519	Property Name CYPRESS	Well Number 1
OGRID No. 237788	Operator Name PLANTATION OPERATING, LLC	Elevation 3171'

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	8	23-S	27-E		1280	NORTH	1650	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 320	Joint or Infill	Consolidation Code	Order No. DHC-
------------------------	-----------------	--------------------	-------------------

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>GEODETIC COORDINATES NAD 27 NME Y=481275.8 N X=538568.1 E LAT.=32°19'23.09" N LONG.=104°12'30.52" W</p>	<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 Kimberly Faldyn</p> <p>Printed Name Engineering Tech</p> <p>Title 5/7/2008</p> <p>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>NOVEMBER 9, 2005</p> <p>Date Surveyed JR</p> <p>Signature & Seal of Professional Surveyor RONALD J. EIDSON</p> <p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>

Wildcat Measurement Service
P.O.Box 1836
416 East Main Street
Artesia, NM 88211-1836

5/7/2008 5:43 PM
Phone: 575-746-3481
888-421-9453
Fax: 575-748-9852
dnorman@wildcatms.com

GAS ANALYSIS REPORT

Analysis For: PLANTATION PETROLEUM
Field Name:
Well Name: CYPRESS #1 MORROW
Station Number: CY-001
Purpose: SPOT
Sample Deg. F: 77.6
Volume/Day:
Formation:
Line PSIG: 197.9
Line PSIA: 211.1

Run No: 280507-03
Date Run: 05/07/2008
Date Sampled: 05/06/2008
Producer: PLANTATION PETR.
County: EDDY
State: NM
Sampled By: CRAIG SUTHERLAND
Atmos Deg. F: 83

GAS COMPONENTS			
		MOL%	GPM
Oxygen	O2:	0.0000	
Carbon Dioxide	CO2:	1.1584	
Nitrogen	N2:	0.2710	
Hydrogen Sulfide	H2S:	0.0000	
Methane	C1:	96.3598	
Ethane	C2:	1.8454	0.4921
Propane	C3:	0.2191	0.0602
Iso-Butane	IC4:	0.0413	0.0135
Nor-Butane	NC4:	0.0382	0.0120
Iso-Pentane	IC5:	0.0185	0.0067
Nor-Pentanes	NC5:	0.0152	0.0055
Hexanes Plus	C6+:	0.0332	0.0144
Totals		100.0000	0.6043

Pressure Base: 14.650
Real BTU Dry: 1016.044
Real BTU Wet: 995.114

Calc. Ideal Gravity: 0.5800
Calc. Real Gravity: 0.5810
Field Gravity:
Standard Pressure: 14.696
BTU Dry: 1019.204
BTU Wet: 1001.470
Z Factor: 0.9979
Average Mol Weight: 16.7967
Average CuFt/Gal: 58.7294
26 lb. Product: 0.0411
Ethane+ GPM: 0.6043
Propane+ GPM: 0.1123
Butane+ GPM: 0.0521
Pentane+ GPM: 0.0266

Remarks:
H2S IN GAS STREAM ON LOCATION: NONE DETECTED

Analysis By: Don Norman

Wildcat Measurement Service
P.O.Box 1836
416 East Main Street
Artesia, NM 88211-1836

5/7/2008 5:37 PM
Phone: 575-746-3481
888-421-9453
Fax: 575-748-9852
dnorman@wildcatms.com

GAS ANALYSIS REPORT

Analysis For: PLANTATION PETROLEUM
Field Name:
Well Name: CYPRESS #1 ATOKA
Station Number: CY-001A
Purpose: SPOT
Sample Deg. F: 89.2
Volume/Day:
Formation:
Line PSIG: 197.2
Line PSIA: 210.4

Run No: 280507-02
Date Run: 05/07/2008
Date Sampled: 05/06/2008
Producer: PLANTATION PETR.
County: EDDY
State: NM
Sampled By: CRAIG SUTHERLAND
Atmos Deg. F: 81

GAS COMPONENTS			
		MOL%	GPM
Oxygen	O2:	0.0000	
Carbon Dioxide	CO2:	0.4657	
Nitrogen	N2:	0.7748	
Hydrogen Sulfide	H2S:	0.0000	
Methane	C1:	95.9481	
Ethane	C2:	2.1541	0.5744
Propane	C3:	0.3530	0.0970
Iso-Butane	IC4:	0.0979	0.0319
Nor-Butane	NC4:	0.0746	0.0235
Iso-Pentane	IC5:	0.0445	0.0162
Nor-Pentanes	NC5:	0.0149	0.0054
Hexanes Plus	C6+:	0.0724	0.0314
Totals		100.0000	0.7798

Pressure Base: 14.650
Real BTU Dry: 1026.794
Real BTU Wet: 1005.642

Calc. Ideal Gravity: 0.5811
Calc. Real Gravity: 0.5821
Field Gravity:
Standard Pressure: 14.696
BTU Dry: 1029.987
BTU Wet: 1012.065
Z Factor: 0.9979
Average Mol Weight: 16.8279
Average CuFt/Gal: 58.7452
26 lb. Product: 0.0821
Ethane+ GPM: 0.7798
Propane+ GPM: 0.2054
Butane+ GPM: 0.1084
Pentane+ GPM: 0.0530

Remarks:
H2S IN GAS STREAM ON LOCATION: NONE DETECTED

Analysis By: Don Norman