

DATE IN 12/3/12	SUSPENSE	ENGINEER WVS	LOGGED IN 12/3/12	TYPE DHC	APP NO. 23495245
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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 \_\_\_\_\_

RECEIVED 000  
 2012 DEC -3 P 3:01

[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.

Tracie J Cherry  
 Print or Type Name

Signature

Sr. Regulatory Analyst  
 Title

11-30-12  
 Date

tjcherry@basspet.com  
 e-mail Address

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

District II  
811 S. First St., Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised August 1, 2011

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

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

APPLICATION FOR DOWNHOLE COMMINGLING

BOPCO, L.P.

P O BOX 2760 MIDLAND, TX 79702

Operator

Address

Big Eddy Unit

154

A-15-22S-28E

Eddy

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 260737 Property Code 305860 API No. 30-015-34399 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
	<b>UNDES.</b>		<input checked="" type="checkbox"/>
Pool Name	Dublin Ranch (Atoka)		Dublin Ranch (Morrow)
Pool Code	76130		76140
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	11496 - 11674		12,200 - 12,384
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)	Not Required		Not Required
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1021 BTU/cf		993 BTU/cf
Producing, Shut-In or New Zone	Producing		Shut-In
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: 07/00/2012 Rates: 83 MCF/Day	Date: Rates:	Date: 01/00/2009 Rates: 626 MCF/Day
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 100   %                      10   %	Oil                      Gas %                      %	Oil                      Gas 0   %                      90   %

**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.

**BOPCO, L. P.**  
6 DESTA DRIVE, SUITE 3700 (79705)  
P. O. BOX 2760  
MIDLAND, TEXAS 79702

(432) 683-2277

FAX (432) 687-0329

November 30, 2012

Richard Ezeanyim  
New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505

Re: Big Eddy Unit, Well #154  
C107A – Dublin Ranch (Atoka) & Dublin Ranch (Morrow)  
15-T22S-R28E  
30-015-34399

Mr. Ezeanyim:

Enclosed is an original Form C107A (Application for Downhole Commingling) for the referenced well.

BOPCO, L.P. proposes to return the Morrow to production. The Morrow was TA'd by setting a CIBP in the packer tailpipe. BOPCO proposes to perf the tailpipe and commingle the production from the Morrow with the Atoka.

Form 3160-5, Sundry Notices and Reports on Wells has also been submitted to the Bureau of Land Management on this date (copy attached).

Royalty, overriding royalty and working interest owners are the same in each zone.

If you have any questions or need additional information, please call me at 432/683-2277.

Sincerely,



Tracie J Cherry  
Sr. Regulatory Analyst

Enclosures

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
DISTRICT II  
611 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 and Natural Resources Department

Form C-102  
Revised March 17, 1999  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34399	Pool Code 76140	Pool Name DUBLIN RANCH MORROW (GAS)
Property Code 001776	Property Name BIG EDDY UNIT	Well Number 154
OGRID No. 001801	Operator Name BEPCO, L.P.	Elevation 3131'

Surface Location

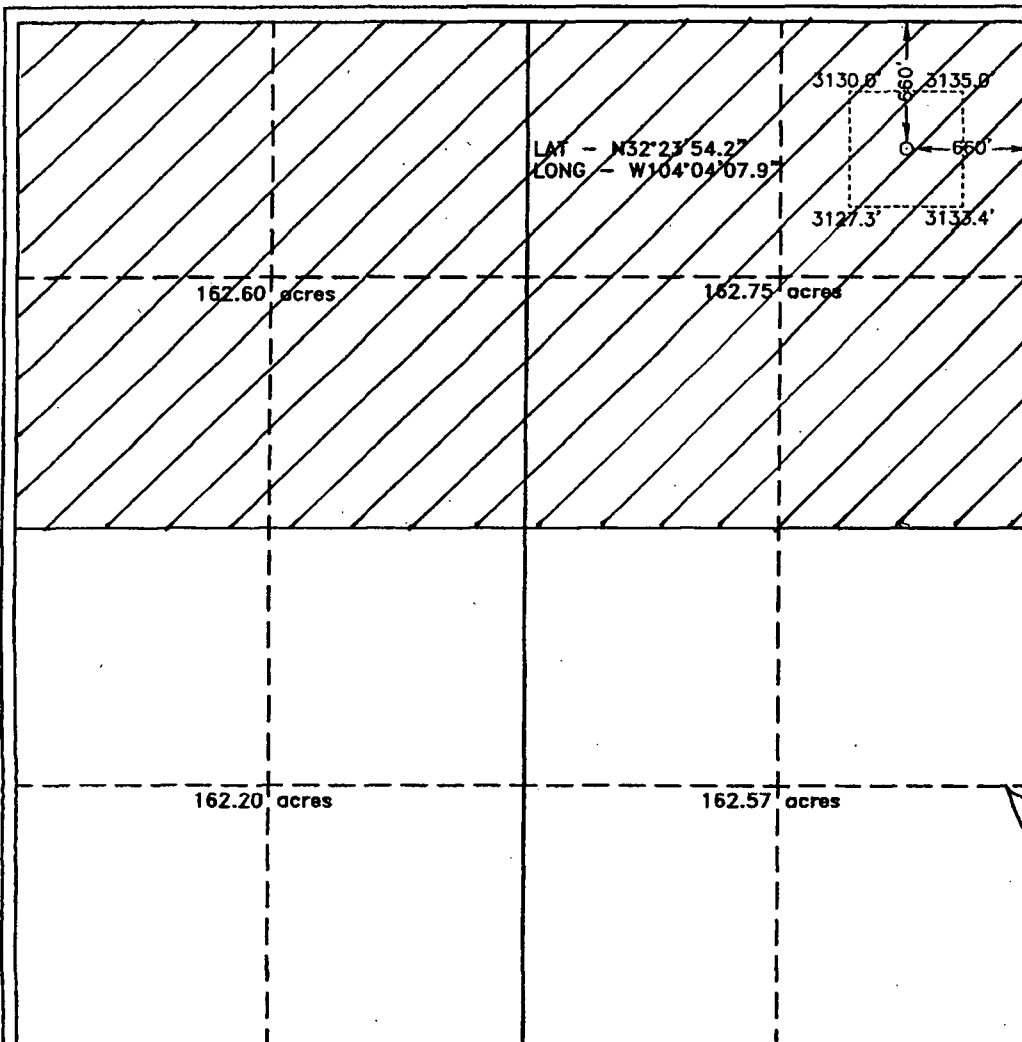
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	15	22 S	28 E		660	NORTH	660	EAST	EDDY

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	Joint or Infill	Consolidation Code	Order No.
320	N		

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



OPERATOR CERTIFICATION

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

*W.R. Dannels*  
Signature

W.R. DANNELS

Printed Name

DIVISION DRILLING SUPT.

Title

9/7/2005

Date

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.

JULY 20, 2005

Date Surveyed

*W.O. No. 562*  
Signature of Sealed  
Professional Surveyor

W.O. No. 562  
Certificate No. Gory Jones 7977  
PROFESSIONAL LAND SURVEYOR  
BASIN SURVEYS

DISTRICT I  
1825 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 and Natural Resources Department

Form C-102  
Revised March 17, 1999

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

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-34399	Pool Code 76130	Pool Name DUBLIN RANCH (ATOKA)
Property Code 305860	Property Name BIG EDDY UNIT	Well Number 154
OGRID No. 260737	Operator Name BOPCO, L.P.	Elevation 3131'

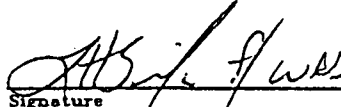
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	15	22 S	28 E		660	NORTH	660	EAST	EDDY

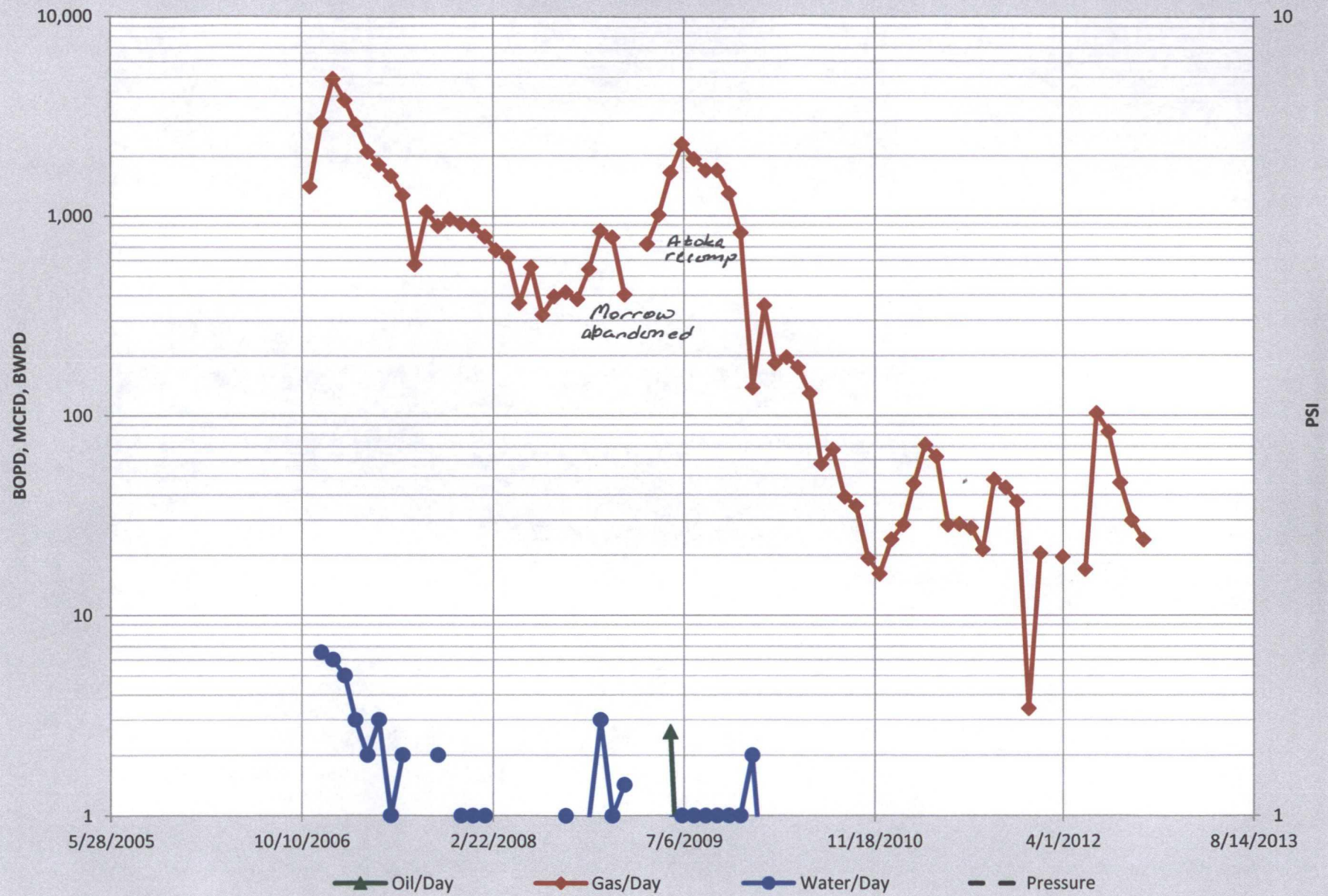
Bottom Hole Location If Different From Surface

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 N	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

	<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 W.R. DANNELS Printed Name DIVISION DRILLING SUPT. Title 9/7/2005 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>JULY 20, 2005 Date Surveyed Signature of Surveyor Professional Surveyor NEW MEXICO W.O. No. 5621 Certificate No. Gary Jones 7977 PROFESSIONAL LAND SURVEYOR BASIN SURVEYS</p>
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# BIG EDDY UNIT #154



APPLICATION FOR DOWNHOLE COMMINGLE  
BIG EDDY UNIT #154  
30-015-34399  
15-T22S-R28E  
Eddy County, NM

The Big eddy unit #154 was originally completed in the Morrow in October 2006. On November 14, 2008, BOPCO received permission to temporarily abandon the Morrow and recomple to the Atoka. The recompletion was done March 11, 2009. The last reported production from the Morrow was January 2009.

No oil production occurred while the well was completed in the Morrow. The Atoka had approximately 115 BO produced during the first 7 months the well was producing from this zone; no oil production has been reported since September 2009. Therefore, production for the Morrow and Atoka will be on a 100% Atoka and 0% Morrow for oil.

Gas production will be 90% Morrow and 10% Atoka for gas. These rates are based on the last full month's daily production for Atoka (July 2012) and last full month's daily average (December 2008) for the Morrow prior to TA.

# CURRENT WELLBORE DIAGRAM

Lease: **Big Eddy Unit** Well No.: **154**  
 Field: **DUBLIN RANCH (MORROW)**  
 Location: **660' FNL & 660' FEL, SEC 15, T22S, R28E**  
 County: **EDDY COUNTY** St: **TX** API: **30-015-34399**

KB: 3149  
 GL: 3129  
 Spud Date: 6/5/2006  
 Compl. Date: 12/6/2006

## SURFACE CASING

SIZE: 13-3/8"  
 WT: 48#  
 GRD: H-40  
 CSA: 541'  
 SX: 560 PREM+  
 CIRC Y 200 SX  
 TOC: Surf  
 HOLE SIZE: 17-1/2" 0-541'

## INTERMEDIATE CASING

SIZE: 9-5/8"  
 WT: 40#  
 GRD: HCN-80  
 CSA: 6,220'  
 SX: 2350 INTRFL H/PREM+  
 CIRC Y 336 sx  
 TOC: Surf  
 HOLE SIZE: 12-1/4" 541-6219'

## PRODUCTION CASING

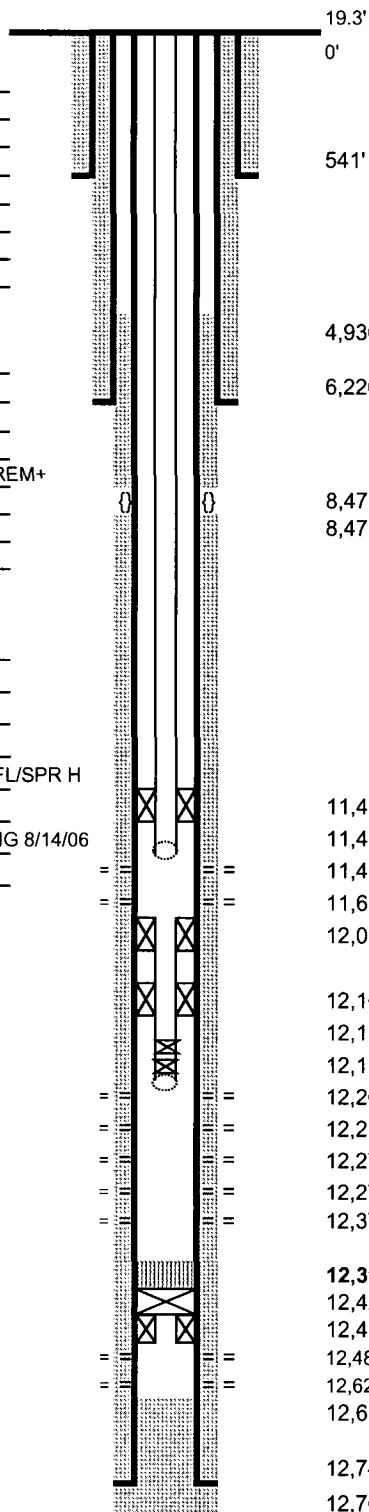
SIZE: 5-1/2"  
 WT: 17#  
 GRD: HCP-110/LTC  
 CSA: 12,749'  
 SX: 1885 PREM INTRFL/SPR H  
 CIRC N  
 TOC: 4,930' CBL/MAPPING 8/14/06  
 HOLE SIZE: 8-3/4" 6220-12765'

## TUBING

348 jts 2 3/8" 4.7# L80

## FRAC

**M Morrow 12200' - 12384'** using a 40#  
 Linear 70Q Binary frac w/ 38,154 gls  
 foam & 62,568 lbs 18/40 Versaprop



KB  
 GL  
 Lat: 32.39838889  
 Long: -104.0688611  
 13-3/8" Csg  
 TOC 2nd Stage (CBL 8/13/06)  
 9-5/8" Csg  
 DVT (CBL 8/14/06)  
 TOC 1st Stage (CBL 8/14/06)  
 5-1/2"x2-3/8" Baker Hornet 10-K Pkr, F nipple, 10K dd sub  
 EOT  
**PERF 11,496-502'** 120° PHSG (33 Holes/5 Pure Shots - 03/07/09)  
**PERF 11,662-74'** 120° PHSG (66 Holes/10 Pure Shots - 03/07/09)  
 Baker 44-26 Mod D pkr w/2-3/8" x 2' pup jt, 10K dual disk si  
 2-3/8" x 2' pup jt  
 Baker 44-26 Mod D pkr, 10' sub, F Nipple, 4' sub, 10K dd si  
**CIBP - Owens 10-K tbq plug**  
**CIBP - Owens 10-K tbq plug**  
**PERF 12,200-12'** 120° PHSG (12 Holes/10 Pure Shots - 09/20/06)  
**PERF 12,218-28'** 120° PHSG (6 Holes/5 Pure Shots - 09/20/06)  
**PERF 12,274-84'** 120° PHSG (12 holes & 5 pure shots)  
**PERF 12,276'** 120° PHSG (3 holes & 3 pure shots)  
**PERF 12,378-84'** 120° PHSG (6 holes & 5 pure shots)  
**PBTD**  
 CIBP w/35' cmt  
 Baker Mod D pkr (8/17/06)  
**PERF 12,489-12,626'** (218 HOLES 60 PURE SHOTS - 8/17/06)  
 Orig PBTD (8/14/07 - by GR-CBL)  
 5-1/2" Csg  
 TD

PBTD: **12,394'**  
 DRILLER TD: **12,758'**  
 LOGGER TD: **12,765'**

Updated: **9/17/2012**  
 Author: **chr**  
 Engr: **TEG**



# PROPOSED WELLBORE DIAGRAM

Lease: **Big Eddy Unit** Well No.: **154**  
 Field: **DUBLIN RANCH (MORROW)**  
 Location: **660' FNL & 660' FEL, SEC 15, T22S, R28E**  
 County: **EDDY COUNTY** St: **TX** API: **30-015-34399**

KB: 3149  
 GL: 3129  
 Spud Date: 6/5/2006  
 Compl. Date: 12/6/2006

## SURFACE CASING

SIZE: 13-3/8"  
 WT: 48#  
 GRD: H-40  
 CSA: 541'  
 SX: 560 PREM+  
 CIRC Y 200 SX  
 TOC: Surf  
 HOLE SIZE: 17-1/2" 0-541'

## INTERMEDIATE CASING

SIZE: 9-5/8"  
 WT: 40#  
 GRD: HCN-80  
 CSA: 6,220'  
 SX: 2350 INTRFL H/PREM+  
 CIRC Y 336 sx  
 TOC: Surf  
 HOLE SIZE: 12-1/4" 541-6219'

## PRODUCTION CASING

SIZE: 5-1/2"  
 WT: 17#  
 GRD: HCP-110/LTC  
 CSA: 12,749'  
 SX: 1885 PREM INTRFL/SPR H  
 CIRC N  
 TOC: 4,930' CBL/MAPPING 8/14/06  
 HOLE SIZE: 8-3/4" 6220-12765'

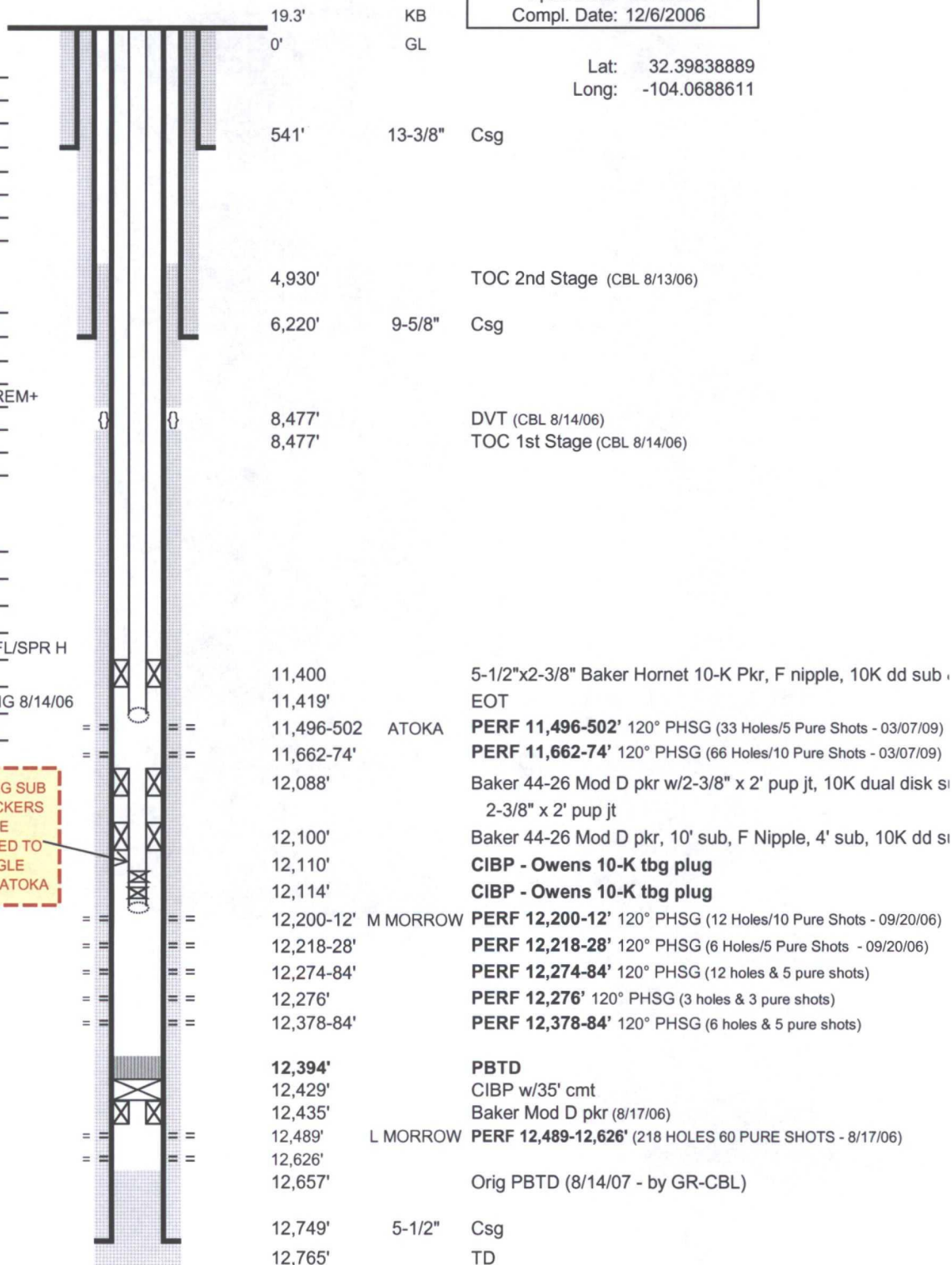
**NOTE:** 2-3/8" TUBING SUB  
 BELOW PACKERS  
 WILL BE  
 PERFORATED TO  
 COMMINGLE  
 MORROW & ATOKA

## TUBING

348 jts 2 3/8" 4.7# L80

## FRAC

**M Morrow 12200' - 12384'** using a 40#  
 Linear 70Q Binary frac w/ 38,154 gls  
 foam & 62,568 lbs 18/40 Versaprop



PBTD: 12,394'  
 DRILLER TD: 12,758'  
 LOGGER TD: 12,765'

Updated: 9/17/2012  
 Author: chr  
 Engr: TEG

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**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.  
NMLC069142A

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**7. If Unit or CA/Agreement, Name and/or No.  
NMNM68294

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.  
BIG EDDY UNIT 1542. Name of Operator  
BOPCO LPContact: TRACIE J CHERRY  
E-Mail: tjcherry@basspet.com9. API Well No.  
30-015-343993a. Address  
P O BOX 2760  
MIDLAND, TX 797023b. Phone No. (include area code)  
Ph: 432-221-737910. Field and Pool, or Exploratory  
DOUBLIN RANCH (ATOKA)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 15 T22S R28E NENE 660FNL 660FEL

11. County or Parish, and State  
EDDY CO. COUNTY, NM**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Subsurface Commingling
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recomplate 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 recompletion 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.)

BOPCO,LP respectfully request permission to downhole comming the production between the Dublin Ranch (Atoka) and the Dublin Ranch (Morrow) in this wellbore. On a Sundry Noticed approved by the BLM on 11.14.08, BOPCO was granted permission to temporarily abandon the Morrow formation perfs 12200'-12384' by setting a CIBP in the packer tailpipe. The Atoka formation was then perforated @ 11496'-11674' and acidized; the well has been producing only from the Atoka formation.

BOPCO, LP requests permission to perforate the tailpipe of the existing packer and produce both formations simultaneously. The combined producing interval will be 12384'-11496' The interest ownership is the same in both of these zones.

The NMOCD has also been petitioned for approval to downhole commingling these two zones.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #161475 verified by the BLM Well Information System  
For BOPCO LP, sent to the Carlsbad**

Name (Printed/Typed) TRACIE J CHERRY

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/30/2012

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By	Title	Date
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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***