

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM 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.****SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM04557
2. Name of Operator BOPCO LP		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702		7. If Unit or CA/Agreement, Name and/or No. NMNM100195
3b. Phone No. (include area code) Ph: 432-683-2277		8. Well Name and No. BIG EDDY 122
4. Location of Well (Footage, Sec., T, R., M., or Survey Description) Sec 4 T20S R31E SENW 1980FNL 1980FWL		9. API Well No. 30-015-27454-00-S2
		10. Field and Pool, or Exploratory S HACKBERRY
		11. County or Parish, and State EDDY 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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" 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 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 recompletion in a new interval, a Form 3160-5 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.)

\*\*\*REVISED\*\*\*

**SUBJECT TO LIKE  
APPROVAL BY STATE**

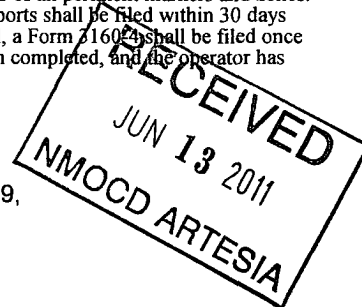
BOPCO, L.P. respectfully wishes to convert this well to a SWD well. (Note that the original sundry SWD request was approved by the BLM on Nov 10, 2010, but was canceled by a sundry, approved Dec 29, 2010, to P&A. This sundry is requesting permission (a second time) to convert the BEU #122 to a SWD, \*\*\*while canceling the approved P&A sundry.)

BOPCO, L.P. has been authorized to utilize this well to inject produced water for disposal puposes as of July 30, 2010 by Administrative Order No. SWD-1252. The following procedure outlines the SWD conversion process:

Add Delaware zones for SWD w/in permitted intervals on 41670A-800. Proposed perforated zone is

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

see COAs  
Casing/tubing annulus  
must be monitored



14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #109497 verified by the BLM Well Information System For BOPCO LP, sent to the Carlsbad Committed to AFMSS for processing by WESLEY INGRAM on 06/02/2011 (11WWI0026SE)	
Name (Printed/Typed) VALERIE TRUAX	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 06/02/2011

Accepted for record

NMOC D 6/15/11

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

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 06/07/2011
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 Carlsbad

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Additional data for EC transaction #109497 that would not fit on the form**

**32. Additional remarks, continued**

6,620'-6,640'. RIH w/ CIBP & set at 6,870'. Dump bail 35' cmt on top of CIBP leaving new PBTD of 6,835'. RIH w/ 2-7/8" workstring down to 6,700'. Spot 1000 gal of 7-1/2% NEFE HCl acid across perforated interval. Perf from 6,620'-6,640'. Frac down csg as follows: 113,951 gal fluid & 10,000# LiteProp 125. RIH w/ 5-1/2" Lockset Nickel plated ext/int PC pkr on 2-7/8" J-55 IPC tbg to 6,570'. Place well on injection not exceeding 934 psi.

# PROPOSED WELLBORE DIAGRAM

Lease: **BIG EDDY UNIT** Well No.: **122**  
 Field: **HACKBERRY (MORROW) SE GAS - ACT** HACKBERRY (STRAWN) SOUTH  
 Location: **1980' FNL & 1980' FWL, SEC 4, T20S, R31E**  
 County: **EDDY** St: **NM** API: **30-015-27454**

## Surface Csg.

Size: **11 3/4**  
 Wt: **42**  
 Grd: **H-40**  
 Set @: **869**  
 Sxs cmt: **610**  
 Circ: **Y**  
 TOC: **Surf**  
 Hole Size **14 3/4**

## Intermediate Csg.

Size: **8 5/8**  
 Wt: **24/28**  
 Grd: **K55/S80**  
 Set @: **4194**  
 Sxs Cmt: **625**  
 Circ: **N**  
 TOC: **2560 est**  
 Hole Size **11 to 4200**

## Production Csg.

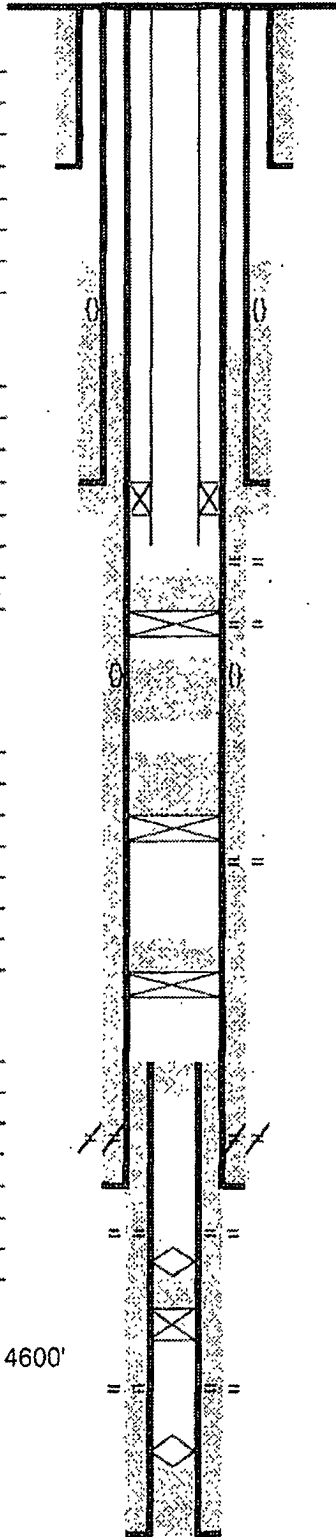
Size: **5 1/2**  
 Wt: **17**  
 Grd: **K55/N80/S95**  
 Set @: **11600**  
 Sxs Cmt: **1550**  
 Circ: **N**  
 TOC: **3000 est**  
 Hole Size **7 7/8**

## Production Csg.

Size: **3 1/2**  
 Wt: **9.3**  
 Grd: **L-80**  
 Set @: **11229-12850**  
 Sxs Cmt: **150**  
 Circ: **Y**  
 TOC: **11229 TOL**  
 Hole Size **4 3/4**

## Tubing

**2 7/8" J-55 Seal Tite IPC @ 4600'**



869' 11 3/4

Yates

2560'

2872'

3000'

Delaware

4194' 8 5/8

**Lokset Nickel Plated Ext/Int pkr @ 4600'**  
**EOT 4600'**

**Injection Interval - 4670' - 6800'**

**CIBP @ 6870' w/ 35' CI C cmt dump bailed**  
 6875-92' LBC Perfs

7009'

DVTool

6948 - 7088' - 25 sxs CI C cmt

9999 - 10368' - 30 sxs CI H cmt

10368' CIBP

10378-98' Wolfcamp Perfs

11147 - 11190' - Dumped bailed 35' cmt on CIBP

11190' CIBP

11245 - 11345' - Cement plug, 60 sxs CI H

11368 - 11412' - Strawn (Sqzd)

11600' 5 1/2

12440 - 12484' - Morrow

Fish: Blanking Plug

12620' 30' CI H cmt cap

12650' CIBP

12714 - 12728' - L Morrow Perfs

cone from bit

12785'

12850' 3 1/2

KB: 3503'

GL: 3486'

Spud Date: 6/24/93

Compl. Date: 8/23/93

TA'D: 7/26/07

RE-ENTERED: 1/14/10

2580'

TOC 8 5/8" csg

DVTool

TOC 5 1/2" csg

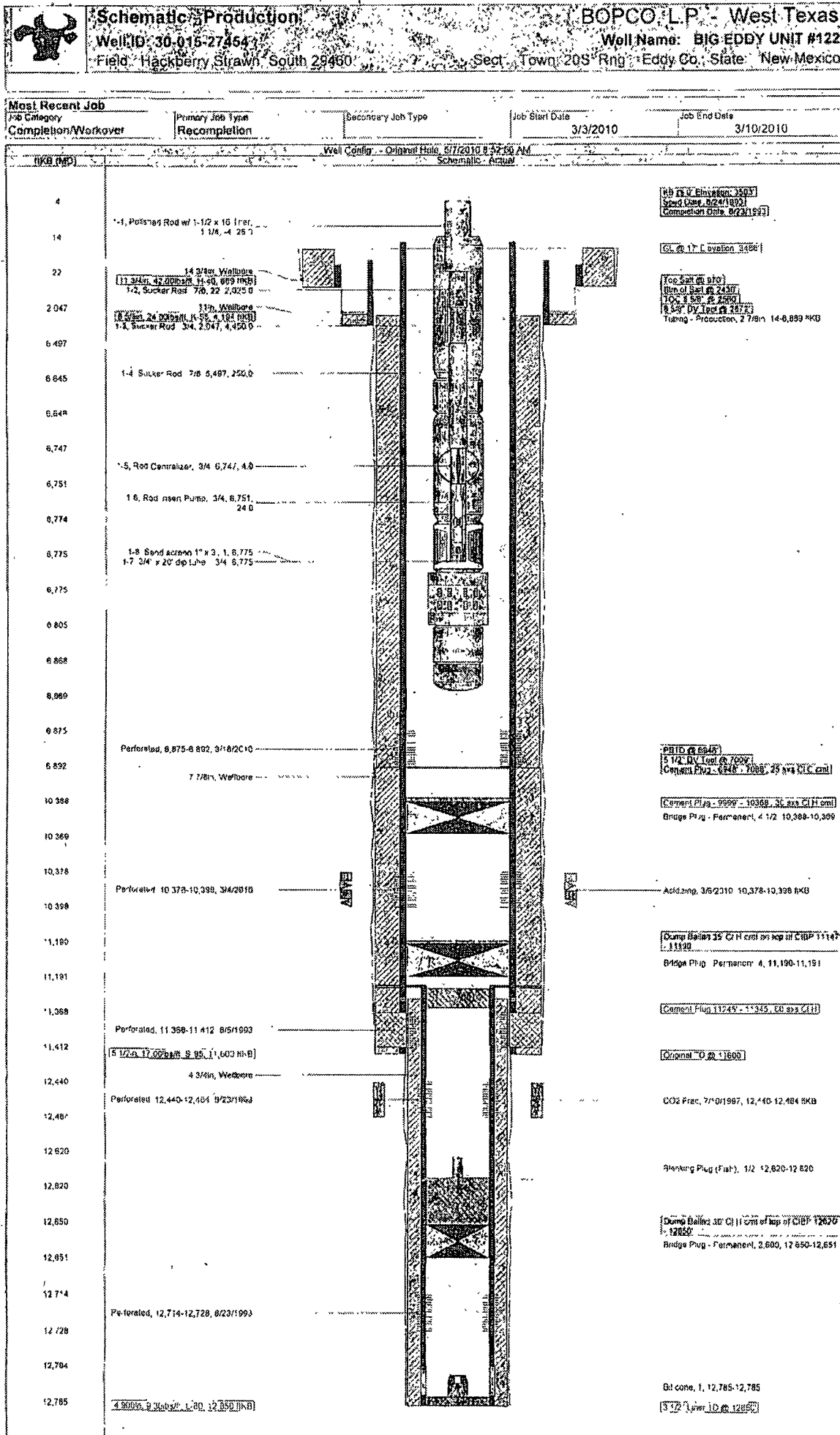
4186'

Updated: 5/6/10

Author: crm

Engr: CCC

# Current Wellbore Diagram



## Conditions of Approval: Wells with Packers\*

BOPCO LP  
**Big Eddy 122**  
June 7, 2011

1. Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
  - a. The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with 200 psig differentials between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
  - b. Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
  - c. Notify Paul R. Swartz at 575-234-5985 and/or 575-200-7902 at least 24 hours before the test. If there is no response, notify the BLM on call drilling phone, 575-361-2822.
  - d. Submit a subsequent Sundry Form 3160-5 relating the MIT activity. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
  - e. Use of tubing internal protection, on/off tubing equipment just above the packer, and a profile nipple installation is required. The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore work.
  - f. **Submit the original subsequent sundry with three copies to BLM Carlsbad.**
2. Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization.
  - a. Approved injection pressure compliance is required.
  - b. If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
  - c. When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum.
  - i. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment.

- e. Other unexplained significant variations of rate or pressure to be reported within 5 days of notice.
3. The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity.
- a. The annulus is to be maintained full of packer fluid at atmospheric pressure. Installation of equipment that will display on site, continuous open to the air fluid level is required. A BLM inspector may request verification of this fluid level at any time.
  - b. Loss of packer fluid above five barrels per month requires notification of the BLM authorized officer within 5 days.
  - c. Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of 0psia. Notify the BLM's authorized officer (Paul R. Swartz at 575-200-7902). If there is no response, notify the BLM on call drilling phone, 575-361-2822.
  - d. Also submit to this office a (Sundry Form 3160-5) Notice of Intent (NOI) for approval by BLM and NMOCD with a detailed plan for correction and the anticipated date of correction. Verbal approval for the plan may be given by a BLM authorized officer, with the NOI filed within five business days.
  - e. After the repairs submit a (Sundry Form 3160-5) Subsequent report, describing the repair(s) and Mechanical Integrity Test as per item 1 above.
  - f. The operator shall keep accurate and current records documenting that the casing annulus is fluid filled. A suggested format for these records is available from the BLM Carlsbad Field Office. Copies of those records shall be furnished at the request of a BLM authorized officer.

**Big Eddy Unit 122**  
**30-025-27454**  
**BOPCO LP**  
**June 7, 2011**  
**Conditions of Approval**

1. Approval is granted for disposal of water being produced on the same unit agreement only. If additional sources of water from off the unit agreement are to be disposed of in this well, prior approval is required. The approval request must include proper authorization from the surface owner.
2. Surface disturbance beyond the originally approved pad must have prior approval.
3. Closed loop system required.
5. At a minimum a 2000 (2M) psi workover BOP to be used with pulling unit. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
6. Operator to have H2S monitoring equipment on location as H2S has been reported from wells in the area.
7. Subsequent sundry with well test and wellbore schematic required.

**CRW 060711**